U.S. Army Garrison

Fort Monmouth, New Jersey

Unregulated Heating Oil Tank Remedial Investigation and Closure Report

Main Post – ECP Parcel 76
(200 Area)
NJDEP Release #'s:

09-11-04-1553-32/10- 04-28-1333-57/10-04-13-1710-23/09-11-19-1710-57/10-01-06-1342-44

NJDEP UST Registration No. 538 - 543

June 2011

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June 2011

PREPARED FOR:

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EXECUTIVE SUMMARY

During the initial site meeting for the re-evaluation geophysical survey data on August 15, 2008, the current Directorate of Public Works (DPW) director, Joseph Fallon, requested a more in-depth geophysical scan by Enviroscan of the Environmental Condition of Property (ECP) Parcel 76 Area to confirm that only seven unregulated heat oil tanks (UHOTs) are present, out of a possible eight noted in client-supplied historic documents. The geophysical data previously collected by Enviroscan was reprocessed through a new software package, Oasis Montaj© by Geosoft, Inc., in October of 2008. This software package has different processing and contouring routines than those used in the past (Excel by Microsoft Corp. and Surfer by Golden Software, Inc.). The newly processed and contoured data were then reexamined for EM anomalies exhibiting characteristics of a UST that may not have been previously delineated.

The re-evaluation of the ECP Parcel 76 Area (200 - Area) was completed by examining the location of the previously identified USTs and determining from historic aerial photos and documents where the eighth UST, if present, was most likely to be located. Enviroscan then mobilized a Geonics EM- 61 MK2 metal detector to collect background data, including areas known to contain targets previously labeled "Possible USTs" (see 060706 report), and to scan the area most likely to contain the undelineated UST. Please note that the old "Possible UST" label has been modified for this report and equates to "Suspected UST".

The areas where the UHOTs were marked out based up the data from the geophysical report. In the 200 – Area (ECP Parcel 76), eight potential anomalies were identified. The suspected UHOT locations were gridded and flagged out; based upon the GPS locations test trenches were excavated. The UHOTs were found between three and five feet below ground surface, with the typical depth of the excavation to approximately nine feet.

UHOTs 538, 541, 542, 540, 544, 543, and 539 were removed in accordance with established protocol, if any discharges were noted, it was reported to the US Army and in turn they were called into NJDEP, at the tank removal locations; in all cases post excavation samples were collected. If releases were noted they were collected after the removal of visibly petroleum impacted soils.

UHOTs 540 and 544 were removed without any observed releases or discharges. A test trench was excavated at 537 in an attempt to locate a potential UHOT as indicated by the geophysical survey. No UHOT was found to be present at this location. Five of the seven UHOTs were found to be leaking into the surrounding soils.

Following receipt of all post-excavation soil sampling analytical results, each excavation was backfilled to grade with a combination of uncontaminated excavated soil, bank run clean sands, and crushed stone. The excavation site was then restored to its original condition with top soil and grass seed.

Groundwater was encountered in the excavations and upon completion of backfilling four monitoring wells were installed to ascertain any impact to groundwater as a result of the discharges from the UHOTs. Two consecutive rounds of groundwater samples were collected in a 30 day period to demonstrate on adverse impact of the groundwater in the vicinity of the leaking UHOTs.

Prior to the installation of the monitoring wells associated with the UHOT excavations, one upgradient and one downgradient well were installed. The initial round of groundwater sampling indicated that three VOCs were detected in the upgradient well (200MW01). Of the three compounds, one was in excess of GWQS. Bromodichloromethane was found to be in excess of the standard. This compound in excess of the GWQS is a trihalomethane. Trihalomethanes are associated with drinking water disinfection. The analytical results were provided to Ft. Monmouth Directorate of Public Works (DPW). An investigation of drinking water lines in proximity to the upgradient well found one of the drinking water supply lines to be leaking. The DPW ordered the line repaired and in subsequent lab analysis, the trihalomethanes were not-detected (ND) in the monitoring well.

Analytical data from the post excavation samples and groundwater samples demonstrated that there were no compounds in excess of the total organic compound values for soil or the groundwater quality standards.

1.0 Unregulated Heating Oil Tank Decommissioning Activities

1.1 Overview

On October 21, 2009, Fort Monmouth's Base Operations Contractor, TECOM-Vinnell Services (TVS), using the information developed in the Environmental Condition of Property (ECP) Phase II report (Parcel 76), began to investigate the area just to the north of the residential structures in the "200 Area" for the presence of potential unregulated heating oil tanks (UHOTs) as indicated by the geophysical survey conducted earlier by Enviroscan (The geophysical subcontractor responsible for the Geophysical findings in the EPC Phase II and its subsequent amendments). Due to the presence of multiple USTs/UHOTs in this general area of the Main Post, a regional groundwater investigation has been proposed by DPW to NJDEP. A Remedial Action Report for the 200/400/800 was developed and submitted to NJDEP in order to obtain a letter of no further action (NFA) for each of the parcels. NJDEP responded to the report and required both horizontal and vertical delineation of the groundwater in each of the individual parcels.

The areas where the potential UHOTs had been were marked out and based up the data from the geophysical report as series of test trenches were excavated in an attempt to locate the buried UHOTs. In the 200 - Area, eight (8) potential anomalies were identified by the geophysical survey performed by Enviroscan. The suspected UHOT locations were gridded out and based upon the GPS locations test trenches were excavated.

On, October 20, 2009, Tank - 544, a single wall steel UHOT was located and subsequently closed by removal in accordance with the Directorate of Public Works (DPW) UST Management Plan for the U.S. Army Garrison, Fort Monmouth, New Jersey. The UHOTs were located in an open field to the north of the residential structures in the 200 Area.

UHOT 544 was a 1,000-gallon No. 2 heating oil tank. 544 was the first in the series of UHOTs to be found and subsequently removed in this area. The fill port, vent pipe and associated supply/return piping were not present in the excavation. No discharges or releases were noted with this UHOT. UHOT 540 was removed on October 22, 2009; no discharges or releases were noted with this UHOT. Of the seven UHOTs removed these two were the only ones without a corresponding release or discharge.

The site assessment was performed by TECOM-Vinnell Services (TVS) personnel in accordance with the New Jersey Department of Environmental Protection (NJDEP) *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E) and the NJDEP *Field Sampling Procedures Manual*. Soils surrounding the tanks were screened visually and with a calibrated hand held Mini-Rae® Photo-Ionization air monitoring instrument for evidence of contamination. Following removal, the UHOT was inspected for holes. If holes were noted in the UHOT then the remediation of potentially contaminated soils were observed surrounding the tank was performed.

All sampling was performed by a NJDEP Certified Subsurface Evaluator according to the methods described in the NJDEP *Field Sampling Procedures Manual* (August 2005 edition- updated 15 February 2008). Sampling frequency and parameters analyzed complied with the NJDEP document *Technical Requirements for Site Remediation*, 7:26E-3.9 (December 17, 2007 and revisions dated June 2, 2008) which was the applicable regulation at the date of the closure.

UHOTs 544, 543, 542, 541, 540, 539 and 538 were removed in accordance with established protocol, discharges were noted at the following tank removal locations; when a release was observed a US Army employee was notified and subsequently a discharge was reported to NJDEP.

The following discharge numbers are associated with the following UHOTs:

- 544: No discharge/release observed
- 540: No discharge/release observed
- 543: 09-11-04-1553-32
- 542: 10- 04-28-1333-57
- 541: 10-04-13-1710-23
- 539: 09-11-19-1710-57
- 538: 10-01-06-1342-44
- 537: No UHOT found

Groundwater was encountered in the individual UHOT excavations and upon completion of backfilling of the excavations; four (4) monitoring wells were installed to ascertain any impact to groundwater as a result of the discharge from the UHOTs.

Following receipt of all post-excavation soil sampling Total Petroleum Hydrocarbon (TPH) results, the excavations were backfilled to grade with a combination of uncontaminated excavated soil, clean bank run sand, and crushed stone. The crushed stone was placed at depth below the water table; sand was placed on top of the stone and non-contaminated overburden was placed over the sand. The excavation sites were then restored to its original condition top soil and grass seed.

Based on the post-excavation soil sampling results, soils present are below the NJDEP health based criteria for total organic compounds and there are no detected semi-volatile organic compounds (SVOCs) that exceed the NJDEP Residential Direct Contact Soil Cleanup Standards.

Decommissioning activities for the UHOTs 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. The closure and subsurface evaluation of the UHOTs were conducted by a NJDEP licensed US ARMY employee.

This UHOT Closure and Remedial Investigation Report (RIR) has been prepared by TVS to assist the US Army Garrison DPW in complying with the NJDEP - Underground Storage Tanks (USTs) regulations. The applicable NJDEP regulations at the date of closure were the *Closure of Underground Storage Tank Systems* (N.J.A.C. 7:14B-9 et seq. December, 1987 and revisions dated April 20, 2003).

This report was prepared using information required by the Technical Requirements for Site Remediation (N.J.A.C. 7:26E) (Technical Requirements). Section 1 provides a summary of the UHOT decommissioning activities. Section 2 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

The "200 - Area" (ECP Parcel 76) is located in the north-central portion of the Main Post area of Fort Monmouth. The UHOTs were located to the North of the residential structures along Allen Avenue. The area to the immediate north of the structures is an open field beyond which is Parkers Creek. The exact physical location of the buildings and excavations can be found in Figure 1. Due to the presence of an underground network of sanitary sewer and drinking water lines, extensive excavation and replacement of these utilities was required. The area where the UHOTs were excavated, once served as part of the Fort Monmouth housing stock, and as such is still tied into the underground utility network.

The UHOT removals were divided over time to allow for changes in TVS scheduling and to minimize the disruption of the residences during the holiday season. The first four UHOTs were removed prior to the end of the 2009 calendar year; the remaining three were removed in the winter and spring of 2010. The soil remediation was concluded in July 2010.

The fill ports and appurtenant piping were not encountered in the excavations during the tank removal phase. The piping was removed prior to the excavation of the tanks during the demolition of the previous structures. A site map is provided as Figure 2.

1.2.1 Geological/Hydrogeological Setting

The following is a description of the geological/hydrogeological setting of the 200 Area. 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.

Fort Monmouth lies within the Outer Coastal Plain subprovince of the New Jersey section of the Atlantic Coastal Plain physiographic province, which generally consists of a seaward-dipping wedge of unconsolidated sediments including interbedded clay, silt, sand, and gravel.

To the northwest is the boundary between the Outer and Inner Coastal Plains, marked by a line of hills extending southwest, from the Atlantic Highlands overlooking Sandy Hook Bay, to a point southeast of Freehold, New Jersey, and then across the state to the Delaware Bay.

These formations of clay, silt, sand, and gravel formations were deposited on Precambrian and lower Paleozoic rocks and typically strike northeast-southwest, with a dip that ranges from 10 – 60 feet per mile. Coastal Plain sediments date from the Cretaceous through the Quaternary Periods and are predominantly derived from deltaic, shallow marine, and continental shelf environments.

The Fort is located within the outer fringe of the Atlantic Coastal Plain Physiographic Province, of New Jersey, approximately 20 miles south of Raritan Bay. This province is characterized by a wedge-shaped mass of unconsolidated to semi-consolidated marine, marginal marine and non-marine deposits of clay, silt, sand, and gravel. These sediments range in age from Cretaceous to Holocene and lie unconformably on pre-Cretaceous bedrock consisting of metamorphic schists and gneiss, with local occurrences of basalts, sandstone, and shale (Zapecza, 1984). These sediments trend northeast-southwest and dip southeast toward the Atlantic Ocean. These sediments thicken southeastward from the Piedmont-Coastal Plain Province boundary to approximately 4,500 feet near Atlantic City, New Jersey. During the Cretaceous and Tertiary time period, sediments were deposited alternately in flood plains and in marine environments during sea transgression and sea regression periods. The formations record several major transgressive/regressive cycles and contain units that 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).

Regressive upward coarsening deposits, such as Englishtown and Kirkwood Formations and the Cohansey Sand are usually aquifers, while transgressive deposits, such as the Merchantville, Marshalltown, and Navesink Formations, act as confining units. The thicknesses of these units vary greatly, ranging from several feet to several hundred feet, and thicken to the southeast.

The eastern half of the Main Post is underlain by the Red Bank Formation, ranging in thickness from 20-30 feet, while the western half is underlain by the Homerstown Formation, ranging in thickness from 20-30 feet. Sand and gravel deposited in recent geologic times lie above these formations. Interbedded sequences of clay serve as semi-confining units for groundwater. The mineralogy ranges from quartz to glauconite.

Udorthents-Urban land is the primary classification of soils on Fort Monmouth, which have been modified by excavating or filling. Soils at the Main Post include Freehold sandy loam, Downer sandy loam, and Kresson loam. Freehold and Downer are somewhat well drained, while Kresson is a poorly drained soil. The Charles Wood Area has sandy loams of the Freehold, Shrewsbury, and Holmdel types. Shrewsbury is a hydric soil; Kresson and Holmdel are hydric due to inclusions of Shrewsbury. Downer is not generally hydric, but can be.

Local Geology

Fort Monmouth lies in the Atlantic and Eastern Gulf Coastal Plain groundwater region and is underlain by underformed, unconsolidated to semi-consolidated sedimentary deposits. The chemistry of the water near the surface is variable with generally low dissolved solids and high iron concentrations. In areas underlain by glauconitic sediments, the water chemistry is dominated by calcium, magnesium, and iron (*e.g.* Red Bank and Tinton sands). The sediments in the vicinity of Fort Monmouth were deposited in fluvial-deltaic to nearshore environments. The water table is generally shallow (ranging in depth from 3 – 12'bgs.) and in certain areas fluctuates with the tidal action in Parkers and Oceanport creeks at the Main Post. Significant tidal influence is observed in monitoring wells within 25 feet of the mean high tide mark.

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. 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.

The Hornerstown Formation acts as an upper boundary of the Red Bank aquifer, but it might yield enough water within its outcrop to supply individual household needs. The Red Bank outcrops along the northern edges of the Installation, and contains two members, an upper sand member and a lower clayey sand member. The upper sand member functions as the aquifer and is probably present on some of the surface of the Main Post. The Hornerstown and Red Bank formations overlay the larger Wenonah-Mount Laurel aquifer.

The 200 - Area and the locations of the tank excavations are approximately 150 feet south of Parkers Creek. Based on the topography and the groundwater flow model, groundwater has been shown to flow towards Parkers Creek

1.3 HEALTH AND SAFETY

Work site health and safety hazards were minimized during all decommissioning activities. All areas which posed a vapor hazard were monitored by a qualified individual utilizing a calibrated photo-ionization detector: Thermo Instruments Organic Vapor Monitor (OVM) – Model #580-B The individual ascertained if the area was properly vented to render the area safe, as defined by OSHA.

All work areas were properly vented to insure that there were no contaminants present in the breathing zone above applicable permissible exposure limits (PEL's). Due to the proximity of occupied residential structures to the excavations, TVS agreed to have only two excavations open at one time and that each would be fenced off using chain link fence. The extensive soil remediation was performed in multiple phases to minimize the impact to the surrounding residences.

1.4 REMOVAL OF UNREGULATED HEATING OIL TANK

1.4.1 General Procedures

- All underground utilities were marked out by the respective trade shops or utility contractor prior to excavation activities. Due to the extensive network of underground utilities present in the area of the excavations, the sewer and water supplies needed to be diverted and rerouted.

- All activities were carried out with high regard to safety and health and safeguarding of the environment.

- All excavated soils were visually examined and screened with an OVM for evidence of contamination. Potentially contaminated soils were identified and logged during closure activities. These soils were removed to the Fort Monmouth ID – 27 soil pile upon excavation.

- An NJDEP certified Subsurface Evaluator was present during all closure and remediation activities.

1.4.2 Unregulated Heating Oil Tank Excavation

During decommissioning activities, surficial soil was carefully removed to expose the UHOTs. The tanks were emptied of all liquids prior to removal from the ground. Approximately 4,300 gallons of liquid was pumped out of the UHOTs by Lorco Petroleum Services, Inc. of Elizabeth, New Jersey into a tank truck and transported to their NJDEP-approved petroleum recycling and disposal facility.

After the UHOTs were removed from the excavations, they were staged on an impervious surface, labeled and examined for holes. Holes in the tank were observed during the inspection by the Subsurface Evaluator. Soils surrounding the UHOTs were screened both visually and with an OVM for evidence of petroleum contamination. Where soil staining and an odor of petroleum hydrocarbons were observed; it was determined that remedial soil excavation would be conducted prior to post excavation sampling.

1.5 UNREGULATED HEATING OIL TANK DECOMMISSIONING AND DISPOSAL

Subsequent to disposal, the UHOTs were purged with air to remove vapors prior to cutting. A 4-foot by 3-foot access hole was made in each UHOT using a pneumatic ripper gun with a non-sparking bit. The USTs were cleaned first with rubber squeegees and then with adsorbent material broomed on the sidewalls and bottom.
The adsorbent material was then drummed and subsequently placed into Ft. Monmouth's 'Oil Spill Debris' roll-off container for proper disposal. The atmosphere in and around the tank was monitored using an OVM and an Oxygen/Lower Explosive Level (LEL) meter to ensure safe working conditions during cutting and cleaning activities.

The tanks were then transported by TVS to Red Bank Recycling, Auto Wreckers, Red Bank, NJ for disposal in compliance with all applicable regulations and laws. Refer to Appendix C for UHOT disposal certificate.

Any liquid content of the individual UHOTs discovered was pumped out and transported to the LORCO Petroleum Services facility in Elizabeth, NJ. Copies of the bills of lading can be found in Appendix B of this document.

The Subsurface Evaluator labeled the UHOT with the following information:

- Site of origin
- NJDEP UST Facility ID number
- Date of removal
- Size of tank
- Previous contents of tank

1.6 MANAGEMENT OF EXCAVATED SOILS

Based on OVM air monitoring and visual observations, approximately 608 cubic yards of potentially petroleum contaminated soil was excavated from the area surrounding the leaking UHOTs. All soils were loaded into a dump truck and transported to the Main Post ID 27 Soil Staging Area (located behind Bldg.166).

The soil was stockpiled on an impervious concrete pad and covered with heavy duty reinforced polyethylene tarps, prior to recycling at Pure Soil of Jackson, New Jersey. Overburden soils and non-impacted materials were segregated and used as fill materials. Clean bank run sands were also used as fill material when additional soils were required at each of the individual UHOT excavations.

2.0 REMEDIAL INVESTIGATION ACTIVITIES

2.1 OVERVIEW

The Remedial Investigation was managed by U.S. Army Directorate of Public Works (DPW) personnel. All analyses were performed and reported by Fort Monmouth Environmental Testing Laboratory (FTMEL), a NJDEP-certified testing laboratory. All sampling was performed by a NJDEP Certified Subsurface Evaluator according to the methods described in the NJDEP Field Sampling Procedures Manual (2005).
Sampling frequency and parameters analyzed complied with the NJDEP document *Technical Requirements for Site Remediation, 7:26E-3.9* (December 17, 2007 and revision dated June 2, 2008) which was the applicable regulation at the date of the closure. All records of the Remedial Investigation activities are maintained by the Fort Monmouth DPW Environmental Office.

The following Parties participated in Closure and Remedial Investigation Activities.

- Ft. Monmouth Directorate of Public Works-Environmental Branch
  Contact Person: Joseph Fallon
  Phone Number: (732) 532-6223

- Subsurface Evaluator, Tank Closure: Frank Accorsi/Robert Youhas
  Employer: TECOM-Vinnell Services, Inc. (TVS)
  Phone Number: (732) 532-5241/ (732) 532-6037
  NJDEP License No.: 0010042/ 265843
  (TVS) NJDEP License No.: US252302

- Analytical Laboratory: Fort Monmouth Environmental Testing Laboratory (FTETL)
  Contact Person: Dean Tardiff
  Phone Number: (732) 532-4359
  NJDEP Laboratory Certification No.: 13461

- Hazardous Waste Hauler: Lorco Petroleum Services, Inc., Elizabeth, NJ
  Contact Person: Dan MacKay
  Phone Number: (908) 820-8800
  Manifest No.: NHZ-33887/33888
  US EPA ID No.: NJR000023036

2.2 FIELD SCREENING/MONITORING

Field screening was performed by a NJDEP certified Subsurface Evaluator using an OVM and visual observations to identify potentially contaminated material. Soils were removed from the excavation surrounding the individual UHOTs until no visual or olfactory evidence of contamination remained.

2.3 SOIL SAMPLING

The post-excavation soil sample results were compared to the NJDEP health based criterion of 5,100 mg/kg for total organic contaminants (December 17, 2007 and revisions dated June 2, 2008). Each excavation was over-excavated to ensure Total Petroleum Hydrocarbon (TPH) concentrations remaining would be below the 1,000 mg/kg contingency analytical threshold.

If the initial sample was in excess of the NJDEP soil clean up criteria; additional soils were removed until both visual and olfactory evidence was minimalized. The OVM or an equivalent air monitoring instrument was used to confirm that a sufficient volume of soils had been removed. All samples with analytical results in excess of 1,000 mg/kg were re-excavated to levels less than the contingency analytical threshold of 1,000 mg/kg. A summary of the analytical results and comparison to the NJDEP soil cleanup standards are provided on Table 1 and Table 2. The soil analytical data packages, including associated quality control data, are provided in Appendix E.

2.4 GROUNDWATER SAMPLING

One upgradient and one downgradient monitoring were installed prior to the monitoring wells associated with the UHOT excavations. Four monitoring wells were installed in conjunction with the UHOT removals to confirm groundwater quality. In accordance with Table 2.1 of TRSR, the monitoring wells were sampled for volatile organic compounds plus 15 tentatively identified compounds (VOC+15), base/neutral extractable compounds plus 15 tentatively identified compounds (B/N+15). The results of the last sampling events can be found on Table 3 and 4. The groundwater analytical packages including associated quality control data are provided in Appendix E. See Figure 3 for the locations of the monitoring wells.

3.0 CONCLUSIONS AND RECOMMENDATIONS

3.1 SOIL SAMPLING RESULTS

Post excavation samples were collected from the individual UIHOT excavations (538 through 545) to evaluate soil conditions following removal of the UHOTs. All samples were analyzed for TPH. The post-remediation soil sample results were compared to the NJDEP health based criterion of 5,100 mg/kg for total organic contaminants (December 17, 2007 and revisions dated June 2, 2008).

A summary of the analytical results and comparison to the NJDEP soil cleanup criteria is provided on Table 2. The analytical data package, including associated quality control data, is provided in Appendix D.

Although, a significant number (five of the seven removed) of UHOTs were observed with holes and had corresponding discharges, the effect remained localized and one excavation did not impact any of the other excavations. The tight glauconitic soils with little horizontal and vertical migration retained contaminants close to their source.

3.2 GROUNDWATER SAMPLING RESUTLS

The initial sampling round of upgradient and downgradient wells was collected prior to the UHOT remediation. These wells were installed to provide an overview of the general groundwater quality in the region of the UHOT excavations. There were three Volatile Organic Compounds (VOCs) analytical anomalies of which only one was in excess of groundwater quality standards were observed in the upgradient monitoring well. The three anomalies were trihalomethane compounds. These trihalomethanes are typically associated with potable water disinfection. The information was passed along to the Fort Monmouth Directorate of Public Works (DPW) and upon their investigation a leak in a potable water line in close proximity to the upgradient well was discovered. The repair to leak in the potable water line was completed; subsequent analytical results have shown these compounds to be Non-Detect. The analytical report and NJDEP's response to the findings can be found in Appendix E of this document.

Two rounds of groundwater samples were collected from the four (4) monitoring wells installed at Parcel 76 to the north of the buildings in the 200 Area. The monitoring wells were installed in the excavations of the leaking UHOTs.

The well locations provide coverage to demonstrate whether product released from the discovered leaking UHOTs had migrated and/or negatively impacted the surrounding groundwater. The results of the sampling events can be found on Table 4.

The groundwater analytical packages including associated quality control data is provided in Appendix E. The monitoring wells are also used as part of the base-wide groundwater model.

3.3 CONCLUSIONS AND RECOMMENDATIONS

The analytical results for all of post-remediation soil samples collected from the closure excavation at UHOTs No. 538 through 545 were below the NJDEP soil cleanup standards for total organic contaminants and semi-volatile organic compounds. As part of Fort Monmouth's petroleum soil remediation program; impacted soils are to be excavated to below 1,000 mg/kg TPH.

This ensures that the contingency analysis is not performed and thusly eliminates any potential of chasing one of the fuel oil base/neutral surrogate compounds, reducing the volume soils excavated and cost of UHOT removals. No post remedial samples collected from the individual UHOT removals were in excess of the threshold value of 1,000 mg/kg necessary for contingency base/neutral analysis.

The two rounds of groundwater collected from the four monitoring wells installed in conjunction with the UHOT removals indicated that all parameters are below NJDEP Groundwater Quality Standards (GWQS) or not detected.

No Further Action is proposed in regard to the closure and remedial investigation of UHOT No.538 - 545 at ECP Parcel 76 (200 - Area).

FIGURES

TABLES

TABLE 1
SUMMARY OF LABORATORY ANALYSIS
FT. MONMOUTH, 200 - AREA
October 2009 through July 2010

SAMPLE ID	LABORATORY SAMPLE ID	SAMPLE DATE	SAMPLE MATRIX	ANALYTICAL PARAMETER	ANALYTICAL METHOD
76-3-A, North Wall	9042201	10/20/09	Soil	TPH	OQA-QAM-25
76-3-B, South Wall	9042202	10/20/09	Soil	TPH	OQA-QAM-25
76-3-C, East Wall	9042203	10/20/09	Soil	TPH	OQA-QAM-25
76-3-D, West Wall	9042204	10/20/09	Soil	TPH	OQA-QAM-25
73-3-E, Bottom	9042205	10/20/09	Soil	TPH	OQA-QAM-25
540-A, North Wall	9042501	10/22/09	Soil	TPH	OQA-QAM-25
540-B, South Wall	9042502	10/22/09	Soil	TPH	OQA-QAM-25
540-C East Wall	9042503	10/22/09	Soil	TPH	OQA-QAM-25
540-D West Wall	9042504	10/22/09	Soil	TPH	OQA-QAM-25
540-E Bottom	9042505	10/22/09	Soil	TPH	OQA-QAM-25
543-A North Wall	9044801	11/17/09	Soil	TPH	OQA-QAM-25
543-B South Wall	90444802	11/17/09	Soil	TPH	OQA-QAM-25
543-C East Wall	9044803	11/17/09	Soil	TPH	OQA-QAM-25
543-D West Wall	9044804	11/17/09	Soil	TPH	OQA-QAM-25
543-E Bottom	9044805	11/17/09	Soil	TPH	OQA-QAM-25
539-A/Bottom	9047101	12/4/09	Soil	TPH	OQA-QAM-25
539-B/East Wall	9047102	12/4/09	Soil	TPH	OQA-QAM-25
539-C/South Wall	9047103	12/4/09	Soil	TPH	OQA-QAM-25
539-D/North Wall	9047104	12/4/09	Soil	TPH	OQA-QAM-25
539 E/West Wall	9048201	12/15/09	Soil	TPH	OQA-QAM-25
539-F/Bottom	9048202	12/15/09	Soil	TPH	OQA-QAM-25

ABBREVIATIONS: TPH = Total Petroleum Hydrocarbons, Method NJDEP OQA-QAM-25

TABLE 1
SUMMARY OF LABORATORY ANALYSIS
FT. MONMOUTH, 200 - AREA
October 2009 through July 2010

SAMPLE ID	LABORATORY SAMPLE ID	SAMPLE DATE	SAMPLE MATRIX	ANALYTICAL PARAMETER	ANALYTICAL METHOD
538-A/Bottom	1000301	1/5/10	Soil	TPH	OQA-QAM-25
538-B/North Wall	1000302	1/5/10	Soil	TPH	OQA-QAM-25
538-C/East Wall-	1000303	1/5/10	Soil	TPH	OQA-QAM-25
538-D/West Wall	1000601	1/7/10	Soil	TPH	OQA-QAM-25
538-E/East Wall	1000602	1/7/10	Soil	TPH	OQA-QAM-25
538-F/East Wall	1000603	1/7/10	Soil	TPH	OQA-QAM-25
538-G/South Wall	1000604	1/7/10	Soil	TPH	OQA-QAM-25
538-H/South Wall	1000605	1/7/10	Soil	TPH	OQA-QAM-25
548-I/South Wall	1000606	1/7/10	Soil	TPH	OQA-QAM-25
542-A/South Wall	1016901	4/29/10	Soil	TPH	OQA-QAM-25
542-B/West Wall	1016902	4/29/10	Soil	TPH	OQA-QAM-25
542-C/Bottom	1016903	4/29/10	Soil	TPH	OQA-QAM-25
542-D	1016904	4/29/10	Soil	TPH	OQA-QAM-25
541 – PE1	1017401	5/4/10	Soil	TPH	OQA-QAM-25
541 – PE2	1017402	5/4/10	Soil	TPH	OQA-QAM-25
541 – PE3	1017403	5/4/10	Soil	TPH	OQA-QAM-25
541 – PE4	1017403	5/4/10	Soil	TPH	OQA-QAM-25
541 – PE5	1017404	5/4/10	Soil	TPH	OQA-QAM-25
541 East Center (11.5 – 12')	1021401	5/25/10	Soil	TPH	OQA-QAM-25
541/South Wall	1022401	6/2/10	Soil	TPH	OQA-QAM-25
543/East Wall WP	1024103	6/7/10	Soil	TPH	OQA-QAM-25
543/North wall C	1024104	6/7/10	Soil	TPH	OQA-QAM-25
543/north wall C	1024105	6/7/10	Soil	TPH	OQA-QAM-25
543/North Wall D	1024106	6/7/10	Soil	TPH	OQA-QAM-25

ABBREVIATIONS: TPH = Total Petroleum Hydrocarbons, Method NJDEP OQA-QAM-25

TABLE 1
SUMMARY OF LABORATORY ANALYSIS
FT. MONMOUTH, 200 - AREA
October 2009 through July 2010

SAMPLE ID	LABORATORY SAMPLE ID	SAMPLE DATE	SAMPLE MATRIX	ANALYTICAL PARAMETER	ANALYTICAL METHOD
543/North Wall A	1024101	6/7/10	Soil	TPH	OQA-QAM-25
543/North Wall B	1024102	6/7/10	Soil	TPH	OQA-QAM-25
543/West Wall	1024107	6/7/10	Soil	TPH	OQA-QAM-25
543/S. Line trench A	1024108	6/7/10	Soil	TPH	OQA-QAM-25
543/South Wall	1024109	6/7/10	Soil	TPH	OQA-QAM-25
543/S. Line Trench B	1024110	6/7/10	Soil	TPH	OQA-QAM-25
541/N. Wall A	1024701	6/8/10	Soil	TPH	OQA-QAM-25
541/N. Wall B	1024702	6/8/10	Soil	TPH	OQA-QAM-25
541/N. Wall C	1024703	6/8/10	Soil	TPH	OQA-QAM-25
541/N. Wall D	1024704	6/8/10	Soil	TPH	OQA-QAM-25
542/N. Wall A	1024705	6/8/10	Soil	TPH	OQA-QAM-25
542/E. Wall	1024706	6/8/10	Soil	TPH	OQA-QAM-25
542/W. Wall	1024707	6/8/10	Soil	TPH	OQA-QAM-25
542/S. Wall	1024708	6/8/10	Soil	TPH	OQA-QAM-25
542/N. Wall	1024709	6/8/10	Soil	TPH	OQA-QAM-25
542/N. Wall C	1024710	6/8/10	Soil	TPH	OQA-QAM-25
543/W. Wall A	1025301	6/9/10	Soil	TPH	OQA-QAM-25
543/W. Wall A	1025302	6/9/10	Soil	TPH	OQA-QAM-25
542/Sewer Pipe Trench A	1025303	6/9/10	Soil	TPH	OQA-QAM-25
542/Sewer Pipe Trench B	1025304	6/9/10	Soil	TPH	OQA-QAM-25
543/N. Wall C	1025305	6/9/10	Soil	TPH	OQA-QAM-25

ABBREVIATIONS: TPH = Total Petroleum Hydrocarbons, Method NJDEP OQA-QAM-25

TABLE 1
SUMMARY OF LABORATORY ANALYSIS
FT. MONMOUTH, 200 - AREA
October 2009 through July 2010

SAMPLE ID	LABORATORY SAMPLE ID	SAMPLE DATE	SAMPLE MATRIX	ANALYTICAL PARAMETER	ANALYTICAL METHOD
543 – S. Ctr. A	1025801	6/10/10	Soil	TPH	OQA-QAM-25
543 – S. Ctr. B	1025802	6/10/10	Soil	TPH	OQA-QAM-25
542/N. Wall D	1026001	6/11/10	Soil	TPH	OQA-QAM-25
542/ N. Wall E	1026002	6/11/10	Soil	TPH	OQA-QAM-25
538/W. Wall SS	1026003	6/11/10	Soil	TPH	OQA-QAM-25
538/NW Wall	1026004	6/11/10	Soil	TPH	OQA-QAM-25
538/East Wall SS	1026005	6/11/10	Soil	TPH	OQA-QAM-25
543/West Wall B	1026303	6/14/10	Soil	TPH	OQA-QAM-25
541/Sewer Trench A	1026301	6/14/10	Soil	TPH	OQA-QAM-25
541/Sewer Trench B	1026302	6/14/10	Soil	TPH	OQA-QAM-25
541/Sewer Trench C	1026303	614//10	Soil	TPH	OQA-QAM-25
543/N. Wall F	1026702	6/16/10	Soil	TPH	OQA-QAM-25
543/S. Center A	1026703	6/16/10	Soil	TPH	OQA-QAM-25
542/North wall F	1027801	6/22/10	Soil	TPH	OQA-QAM-25
542/North wall G	1027802	6/22/10	Soil	TPH	OQA-QAM-25
542/N. Wall H	1028401	6/24/10	Soil	TPH	OQA-QAM-25
542/N. Wall I	1028403	6/24/10	Soil	TPH	OQA-QAM-25
542/N. Wall J	1028405	6/24/10	Soil	TPH	OQA-QAM-25
542/N. Wall K	1028406	6/24/10	Soil	TPH	OQA-QAM-25
541/Sewer Trench B	1028601	6/25/10	Soil	TPH	OQA-QAM-25
541/N. SPT NW	1028602	6/25/10	Soil	TPH	OQA-QAM-25
541/N. SPT WW	1028603	6/25/10	Soil	TPH	OQA-QAM-25
541/N. SPT EW	1028604	6/25/10	Soil	TPH	OQA-QAM-25
SPT -1	1029001	6/28/10	Soil	TPH	OQA-QAM-25
SPT-2	1029002	6/28/10	Soil	TPH	OQA-QAM-25

ABBREVIATIONS: TPH = Total Petroleum Hydrocarbons, Method NJDEP OQA-QAM-25

TABLE 1
SUMMARY OF LABORATORY ANALYSIS
FT. MONMOUTH, 200 - AREA
October 2009 through July 2010

SAMPLE ID	LABORATORY SAMPLE ID	SAMPLE DATE	SAMPLE MATRIX	ANALYTICAL PARAMETER	ANALYTICAL METHOD
538/SB-1	1029201	6/29/10	Soil	TPH	OQA-QAM-25
538/SB-1	1029202	6/29/10	Soil	TPH	OQA-QAM-25
538/SB-2	1029203	6/29/10	Soil	TPH	OQA-QAM-25
538/SB-2	1029204	6/29/10	Soil	TPH	OQA-QAM-25
538/SB-3	1029205	6/29/10	Soil	TPH	OQA-QAM-25
538/SB-3	1029206	6/29/10	Soil	TPH	OQA-QAM-25
538/SB-4	1029207	6/29/10	Soil	TPH	OQA-QAM-25
538/SB-4	1029208	6/29/10	Soil	TPH	OQA-QAM-25
538/SB-5	1029209	6/29/10	Soil	TPH	OQA-QAM-25
538/SB-5	1029210	6/29/10	Soil	TPH	OQA-QAM-25
SPT-3	1029211	6/29/10	Soil	TPH	OQA-QAM-25
SPT	1029901	7/1/10	Soil	TPH	OQA-QAM-25
SPT-4	1029902	7/1/10	Soil	TPH	OQA-QAM-25
SPT-5	1029903	7/1/10	Soil	TPH	OQA-QAM-25
SPT-6	1029904	7/1/10	Soil	TPH	OQA-QAM-25
SPT-7	1030401	7/11/10	Soil	TPH	OQA-QAM-25
SPT-8	1030402	7/11/10	Soil	TPH	OQA-QAM-25
SPT-9	1030403	7/11/10	Soil	TPH	OQA-QAM-25
538/S. Wall W	1030404	7/11/110	Soil	TPH	OQA-QAM-25
538/S. Wall E	1031901	7/24/10	Soil	TPH	OQA-QAM-25
538/E. Wall	1031902	7/24/10	Soil	TPH	OQA-QAM-25
538/E. Wall	1031903	7/24/10	Soil	TPH	OQA-QAM-25
SPT-10	1031905	7/24/10	Soil	TPH	OQA-QAM-25
SPT-11	1031906	7/24/10	Soil	TPH	OQA-QAM-25
SPT-12	1031907	7/24/10	Soil	TPH	OQA-QAM-25

ABBREVIATIONS: TPH = Total Petroleum Hydrocarbons, Method NJDEP OQA-QAM-25

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
FT. MONMOUTH, BUILDING 200 - AREA, October 2009 – May 2010
TOTAL PETROLEUM HYDROCARBONS (results in mg/kg)

SAMPLE ID	LABORATORY SAMPLE ID	SAMPLE LOCATION	SAMPLE DEPTH (in feet)	MATRIX	TPH RESULTS
76-3-A	9042201	North Wall	5.5 – 6.0'	Soil	ND
76-3-B	9042202	South Wall	5.5 – 6.0'	Soil	ND
76-3-C	9042203	East Wall	5.5 – 6.0'	Soil	ND
76-3-D	90422204	West Wall	5.5 – 6.0'	Soil	ND
76-3-E	9042205	Bottom	6.0 – 6.5'	Soil	ND
540-A	9042501	North Wall	6.0 – 6.5'	Soil	ND
540-B	9042502	South Wall	6.0 – 6.5'	Soil	ND
540-C	9042503	East Wall	6.0 – 6.5'	Soil	ND
540-D	9048504	West Wall	6.0 – 6.5'	Soil	ND
540-E	9042505	Bottom	6.5 – 7.0'	Soil	ND
539-A	9047101	Bottom	9.0 – 9.5'	Soil	ND
539-B	9047102	East Wall	7.5 – 8.0'	Soil	ND
539-C	9047103	South Wall	7.5 – 8.0'	Soil	ND
539-D	9047104	North Wall	7.5 – 8.0'	Soil	ND
539-E	9048201	West Wall	7.5 – 8.0'	Soil	ND
539 F	9048202	Bottom	9.5 – 10.0'	Soil	ND
543 A	9044801	North Wall	8.5 – 9.0'	Soil	**8205.4**
543 B	9044802	South Wall	8.5 – 9.0'	Soil	1428.6
543C	9044803	East Wall	8.5 – 9.0'	Soil	1403.11
543 D	9044804	West Wall	8.0 – 8.5'	Soil	ND
543 E	9044805	Bottom	9.5 – 10'	Soil	ND

ABBREVIATIONS:
mg/kg = milligrams per kilogram = parts per million
ND = Compound Not Detected
Grey shading = soils in excess of NJDEP soil clean up standard

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
FT. MONMOUTH, BUILDING 200 - AREA, October 2009 – May 2010
TOTAL PETROLEUM HYDROCARBONS (results in mg/kg)

SAMPLE ID	LABORATORY SAMPLE ID	SAMPLE LOCATION	SAMPLE DEPTH (in feet)	MATRIX	TPH RESULTS
538-A	1000301	Bottom	7.5 - 8.0'	Soil	ND
538-B	1000302	North Wall	7.0 – 7.5'	Soil	ND
538-C	1000303	East wall	6.0 – 6.5'	Soil	2533.02
538-D	1000601	West Wall	6.0 – 6.5'	Soil	625.58
538-E	1000602	East Wall - Pipe North	6.0 – 6.5'	Soil	2900.36
538-F	1000603	East Wall – Pipe South	6.0 – 6.5'	Soil	4117.53
538-G	1000604	South Wall – Pipe East	6.0 – 6.5'	Soil	**8786.85**
538-H	1000605	South Wall – Pipe Middle	6.0 – 6.5'	Soil	**16550.24**
538-I	1000606	South Wall – Pipe West	6.0 – 6.5'	Soil	3359.32
542-A	1016901	South Wall	6.0 – 6.5'	Soil	ND
542-B	1016902	West Wall	6.5 – 7.0'	Soil	ND
542-C	1016903	Bottom	8.5 – 9.0'	Soil	ND
542-D	1016904	East Wall	6.0 – 6.5'	Soil	ND
541 – PE1	1017401	Pipe Excavation sample	9.0'	Soil	ND
541 – PE2	1017402	Pipe Excavation sample	11.0'	Soil	ND
541 – PE3	1017403	Pipe Excavation sample	6.5'	Soil	2189
541 – PE4	1017404	Pipe Excavation sample	7.5'	Soil	ND
541 – PE5	1017405	Pipe Excavation sample	6.5'	Soil	ND
541	1021401	East Center (11.5 -12')	11.5 – 12'	Soil	ND
542	1026001	North Wall D	(8.0 – 8.5')	Soil	**5421.21**
542	1026002	North Wall E	(8.0 – 8.5')	Soil	1698.45
538	1026003	West wall SS	(4.0 – 4.5')	Soil	ND
538	1026004	Northwest Wall	(4.0 – 4.5')	Soil	ND
538	1026005	East Wall SS	(4.0 – 4.5')	Soil	3116..05
543	1025801	South Ctr. A	9.0 – 9.5'	Soil	41.4
543	1025802	South Ctr. B	9.0 – 9.5'	Soil	579.46
541	1022401	South Wall	7.5 – 8.0'	Soil	290.38
543	1024101	North Wall A	7.0 – 7.5'	Soil	ND
543	1024102	North Wall B	7.0 – 7.5'	Soil	114.54
543	1024103	East Wall WP	7.0 – 7.5'	Soil	ND
543	1024104	North wall C	7.0 – 7.5'	Soil	**9944.55**
543	1024105	North wall C	9.0 – 9.5'	Soil	1093.33
543	1024106	North wall D	7.0 – 7.5'	Soil	ND
543	1024107	West Wall	7.0 – 7.5'	Soil	**9835.33**

ABBREVIATIONS:
mg/kg = milligrams per kilogram = parts per million
ND = Compound Not Detected
Grey shading = soils in excess of NJDEP soil clean up standard

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TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
FT. MONMOUTH, BUILDING 200 - AREA, October 2009 – July 2010
TOTAL PETROLEUM HYDROCARBONS (results in mg/kg)

SAMPLE ID	LABORATORY SAMPLE ID	SAMPLE LOCATION	SAMPLE DEPTH (in feet)	MATRIX	TPH RESULTS
543	1024108	Line Trench A	7.0 – 7.5'	Soil	448.47
543	1024109	South wall	7.0 – 7.5'	Soil	ND
543	1024110	S. Line Trench B	7.0 – 7.5'	Soil	215.39
542	1027801	North Wall F	11.0 – 11.5'	Soil	ND
542	1027802	North wall G	11.0 – 11.5'	Soil	ND
541	1026301	Sewer Trench A	7.0 – 7.5'	Soil	ND
541	1026302	Sewer Trench B	7.0 – 7.5'	Soil	2314.3
541	1026303	Sewer Trench C	7.0 – 7.5'	Soil	ND
543	1026304	West Wall B	9.0 – 9.5'	Soil	ND
541	1024701	North Wall A	7.0 – 7.5'	Soil	ND
541	1024702	North Wall B	7.0 – 7.5'	Soil	462.41
541	1024703	North Wall C	7.0 – 7.5'	Soil	337.91
542	1024704	North Wall D	7.0 – 7.5'	Soil	228.49
542	1024705	North Wall A	9.0 – 9.5'	Soil	285.16
542	1024706	East Wall	7.0 – 7.5'	Soil	288.47
542	1024707	West Wall	7.0 – 7.5'	Soil	315.95
542	1024708	South Wall	7.0 – 7.5'	Soil	ND
542	1024709	North Wall B	8.0 – 8.5'	Soil	2510
542	1024710	North Wall C	8.0 – 8.5'	Soil	ND
543	1025301	West Wall A	7.0 – 7.5'	Soil	ND
543	1025302	West Wall A	9.0 – 9.5'	Soil	1281.62
542	1025303	Sewer Pipe Trench A	7.0 – 7.5'	Soil	ND
542	105304	Sewer Pipe Trench B	7.0 – 7.5'	Soil	ND
543	105305	North Wall C	10.5 – 11.0'	Soil	2345.88
543	1026701	North Wall E	11.5 – 12.0'	Soil	231.06
543	1026702	North Wall F	11.5 – 12.0'	Soil	ND
543	1026703	South Center A	11.5 – 12.0'	Soil	ND
541	1028601	Sewer Trench B	9.0 – 9.5'	Soil	163.20
541	1026802	North SPT-NW	7.0 – 7.5'	Soil	ND
541	1026803	North SPT-WW	7.0 – 7.5'	Soil	311.71
541	1026804	North SPT EW	7.0 – 7.5'	Soil	ND

ABBREVIATIONS:
mg/kg = milligrams per kilogram = parts per million
ND = Compound Not Detected
Grey shading = soils in excess of NJDEP soil clean up standard

TABLE 2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
FT. MONMOUTH, BUILDING 200 – AREA, October 2009 – July 2010
TOTAL PETROLEUM HYDROCARBONS (results in mg/kg)

SAMPLE ID	LABORATORY SAMPLE ID	SAMPLE LOCATION	SAMPLE DEPTH (in feet)	MATRIX	TPH RESULTS
542	1028401	North Wall H	7.0 – 7.5'	Soil	ND
542	1028403	North Wall I	8.0 – 8.5'	Soil	ND
542	1028405	North Wall J	7.0 – 7.5'	Soil	ND
542	1028406	North Wall K	8.0 – 8.5'	Soil	ND
SPT-1	1029001	SPT-1	7.0 – 7.5'	Soil	241.66
SPT-2	1029002	SPT-2	7.0 – 7.5'	Soil	ND
538	1029201	SB-1	4.0 – 4.5'	Soil	449.14
538	1029202	SB-1	7.0 – 7.5'	Soil	ND
538	1029203	SB-2	4.0 - 4.5'	Soil	2067.2
538	1029204	SB-2	7.0 – 7.5'	Soil	ND
538	1029205	SB-3	4.0 – 4.5'	Soil	697.67
538	1029206	SB-3	7.0 – 7.5'	Soil	ND
538	1029207	SB-4	4.0 – 4.5'	Soil	ND
538	1029208	SB-4	7.0 – 7.5'	Soil	ND
538	1029209	SB-5	4.0 – 4.5'	Soil	128.22
538	1029210	SB-5	7.0 – 7.5'	Soil	ND
SPT-3	1029211	SPT-3	7.0 – 7.5'	Soil	ND
SPT	1029901	SPT	7.0 – 7.5'	Soil	ND
SPT-4	1029902	SPT-4	7.0 – 7.5'	Soil	ND
SPT-5	1029903	SPT-5	7.0 – 7.5'	Soil	ND
SPT-6	1029904	SPT-6	7.0 – 7.5'	Soil	ND
SPT-7	1030401	SPT-7	7.0 – 7.5'	Soil	ND
SPT-8	1030402	SPT-8	7.0 – 7.5'	Soil	ND
SPT-9	1030403	SPT-9	7.0 – 7.5'	Soil	ND
538	1030404	South Wall W.	7.0 – 7.5'	Soil	ND
538	1031901	South Wall E	7.0 – 7.5'	Soil	273.84
538	1031902	East Wall	4.0 – 4.5'	Soil	562.92
538	1031903	East Wall	7.0 – 7.5'	Soil	331.17
SPT-10	1031904	SPT-10	7.0 – 7.5'	Soil	ND
SPT-11	1031905	SPT-11	7.0 – 7.5'	Soil	ND
SPT-12	1031906	SPT-12	7.0 – 7.5'	Soil	ND

ABBREVIATIONS:
mg/kg = milligrams per kilogram = parts per million
ND = Compound Not Detected
SPT = Sewer Pipe Trench
Grey shading = soils in excess of NJDEP soil clean up standard

TABLE 3
SUMMARY OF LABORATORY ANALYSIS
FT. MONMOUTH, BUILDING 200 MW01 – MW06
August 2010

SAMPLE ID	LABORATORY SAMPLE ID	SAMPLE DATE	SAMPLE MATRIX	ANALYTICAL PARAMETER	ANALYTICAL METHOD
200MW01	1034401	8/16/10	Groundwater	VOC+15/B/N+15	EPA method 624/EPA methods 3510/8270
200MW02	1034402	8/16/10	Groundwater	VOC+15/B/N+15	EPA method 624/EPA methods 3510/8270
200MW03	1034403	8/16/10	Groundwater	VOC+15/B/N+15	EPA method 624/EPA methods 3510/8270
200MW04	1034404	8/16/10	Groundwater	VOC+15/B/N+15	EPA method 624/EPA methods 3510/8270
200MW05	1034405	8/16/10	Groundwater	VOC+15/B/N+15	EPA method 624/EPA methods 3510/8270
200MW06	10334406	8/16/10	Groundwater	VOC+15/B/N+15	EPA method 624/EPA methods 3510/8270
200MW01	1037104	8/30/10	Groundwater	VOC+15/B/N+15	EPA method 624/EPA methods 3510/8270
200MW02	1037105	8/30/10	Groundwater	VOC+15/B/N+15	EPA method 624/EPA methods 3510/8270
200MW03	1037106	8/30/10	Groundwater	VOC+15/B/N+15	EPA method 624/EPA methods 3510/8270
200MW04	1037107	8/30/10	Groundwater	VOC+15/B/N+15	EPA method 624/EPA methods 3510/8270
200MW05	1037108	8/30/10	Groundwater	VOC+15/B/N+15	EPA method 624/EPA methods 3510/8270
200MW06	1037109	8/30/10	Groundwater	VOC+15/B/N+15	EPA method 624/EPA methods 3510/8270

ABBREVIATIONS:

VOC = volatile organic compounds
B/N = base neutral compounds

TABLE 4
SUMMARY OF LABORATORY ANALYTICAL RESULTS
FT. MONMOUTH, 200 AREA MW01 – MW06
August 2010
All aqueous results expressed in ug/kg

SAMPLE ID	LABORATORY SAMPLE ID	MATRIX	VOC RESULTS	B/N RESULTS
200MW01	1034401	Groundwater	All ND	All ND
200MW02	1034402	Groundwater	All <GWQS	All <GWQS
200MW03	1034403	Groundwater	All ND	All ND
200MW04	1034404	Groundwater	All <GWQS	All <GWQS
200MW05	1034405	Groundwater	All ND	All ND
200MW06	1034406	Groundwater	All ND	All <GWQS
200MW01	1037104	Groundwater	All ND	All ND
200MW02	1037105	Groundwater	All <GWQS	All ND
200MW03	1037106	Groundwater	All ND	All ND
200MW04	1037107	Groundwater	All ND	All ND
200MW05	1037108	Groundwater	All ND	All ND
200MW06	1037109	Groundwater	All ND	All <GWQS

ABBREVIATIONS:
ug/kg = micrograms per kilogram = parts per billion
ND = Compound Not Detected
GWQS = NJDEP Groundwater quality standards

APPENDIX A

CERTIFICATIONS

APPENDIX B

WASTE MANIFEST

APPENDIX C

UST DISPOSAL CERTIFICATE

APPENDIX D

PHOTO - DOCUMENTATION

Test Pit at 537 looking for potential UHOT

Top of UHOT at 541, removing product from UHOT before removal

Pipe run at 538

UHOT ready to be removed, note wet soil around UHOT (in this case it is an oil/water mix)

UHOT excavation after removal behind 542

APPENDIX E

SOIL AND GROUNDWATER ANALYTICAL DATA PACKAGES

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732) 532-4359 FAX: (732) 532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING
NJDEP CERTIFICATION #13461

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: 10-11823

Parcel 76/UST #76-3

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
76-3-A, North Wall	9042201	Soil	20-Oct-09 13:20	10/20/09
76-3-B, South Wall	9042202	Soil	20-Oct-09 13:35	10/20/09
76-3-C, East Wall	9042203	Soil	20-Oct-09 13:50	10/20/09
76-3-D, West Wall	9042204	Soil	20-Oct-09 14:15	10/20/09
76-3-E, Bottom	9042205	Soil	20-Oct-09 14:35	10/20/09
76-3-F, Duplicate	9042206	Soil	20-Oct-09 14:35	10/20/09

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, % SOLIDS

12/16/09
Jacqueline Hamer/Date
QA/QC Supervisor

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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Surrogate Results Summary	21
MS/MSD Results Summary	22
LCS Summary	23
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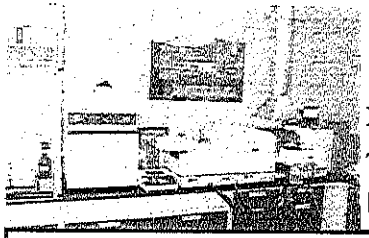
CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:jacqueline.hamer@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: CHUCK APPLEBY
Phone #: X2262
( )DERA ( )OMA (X)Other: BRAC
Project No: 10-11823
Location: PARCEL 76 UST #76-3
Samplers Name / Company: FRANK ACCORSI / TVS

LIMS/Work Order #	Sample Location	Date	Time	Sample Type	# bottles	TPH	% SOLIDS					FID (PPM)	DEPTH (FT.)	Remarks / Preservation Method
90422 01	76-3-A, NORTH WALL	10-20-09	1320	SOIL	1	X	X					0	5.5-6	ICE
02	76-3-B, SOUTH WALL		1335			X	X					0	5.5-6	
03	76-3-C, EAST END		1350			X	X					0	5.5-6	
04	76-3-D, WEST END		1415			X	X					0	5.5-6	
05	76-3-E, BOTTOM		1435			X	X					0	6-6.5	
06	76-3-F, DUPLICATE		1435			X	X					0	6-6.5	

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Frank Accorsi	10-21-09 1600				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, (X)Reduced, ( )Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: ( )Standard 3 wks, (X)Rush ~~3 WK~~ 7 DAYS., ( )ASAP Verbal ____ Hrs.

Comments:

print legibly

new coc._1.XLS8/18/2009

200002

SAMPLE RECEIPT FORM

Date Received: 10-20-09 Work Order ID#: 90422

Site/Proj. Name: Parcel 76 Cooler Temp (°C): ICE

Received By: J. Vaughan Sign: J. Vaughan
(Print name)

Check the appropriate box

1. Did the samples come in a cooler? ☑ yes ☐ no ☐ n/a
2. Were samples rec'd in good condition? ☑ yes ☐ no
3. Was the chain of custody filled out correctly and legibly? ☑ yes ☐ no
4. Was the chain of custody signed in the appropriate place? ☑ yes ☐ no
5. Did the labels agree with the chain of custody? ☑ yes ☐ no
6. Were the correct containers/preservatives used? ☑ yes ☐ no
7. Was a sufficient amount of sample supplied? ☑ yes ☐ no
8. Were air bubbles present in VOA vials? ☐ yes ☐ no ☑ n/a
9. Were samples received on ice? ☑ yes ☐ no
10. Were analyze-immediately tests perform within 15 minutes ☐ yes ☐ no ☑ n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

GPS
POINTS

U.S. ARMY - FT. MONMOUTH, NJ

(76-3) BUILDING 544 - (1,000 G. UST)

SOIL SAMPLING GPS POSITIONS & COORDINATES

US STATE PLANE 1983, NJ (NY EAST) 2900, NAD 1983 (CONUS)

(IN US SURVEY FEET)

SAMPLE POINTS

POSITION/DESCRIPTION	Y COORDINATE (NORTHING)	X COORDINATE (EASTING)
(76-3A)544A -NORTH WALL	541091.502	619763.722
(76-3B)544B -SOUTH WALL	541086.353	619761.895
(76-3C)544C- EAST WALL	541089.606	619768.223
(76-3D)544D-WEST WALL	541087.081	619758.919
(76-3E)544E- BOTTOM	541089.507	619763.573

FIELD DUPLICATE IDENTIFICATION

Field Duplicate Identification

Lab ID: 90422

Site: Parcel 76
UST # 76-3

The Field Duplicate was performed on 76-3-E, Bottom (Lab ID 9042205).

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-COFORMANCE SUMMARY

TPHC CONFORMANCE/NON–CONFORMANCE SUMMARY REPORT

		Indicate Yes, No, N/A
1.	Method Detection Limits Provided	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range)	Yes
4.	Duplicate Results Summary Meet Criteria	Yes
5.	IR Spectra submitted for standards, blanks and samples	NA
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted	Yes
7.	Analysis holding time met (If not met, list number of days exceeded for each sample)	Yes

Additional comments: _____

Laboratory Manager: _____ Date: 12/16/09

RESULTS SUMMARY

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

Project #: 10-11823
Location: PARCEL 76
ECP:
Work Order:

Analysis: OQA-QAM-025
Matrix: Soil
Inst. ID: GC TPHC INST. #1
Column Type: RTX-5, 0.32mm ID, 30 m
Injection Volume: 1 uL
Blank Conc.: 0.00

Date Received: 20-Oct-09
Date Extracted: 21-Oct-09
Extraction Method: Shake
Analysis Complete: 26-Oct-09
Analyst: Robert Szot

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data Qualifiers	
MB10210901	MB10210901	1.00	15.00	100.00	23	333	0.00		
LCS10210901	LCS10210901	1.00	15.00	100.00	23	333	846.04		
9042201	76-3-A NORTH WALL	1.00	15.38	89.5	25	363	0.00		
9042202	76-3-B SOUTH WALL	1.00	15.29	87.3	26	375	0.00		
9042203	76-3-C EAST END	1.00	15.45	83.1	27	389	0.00		
9042204	76-3-D WEST END	1.00	15.48	81.7	28	395	0.00		
9042205	76-3-E BOTTOM	1.00	15.73	80.7	28	394	0.00		
9042206	76-3-F DUPLICATE	1.00	15.43	82.3	28	394	0.00		

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution

000013

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature Dean Tuttle

Date: 12/16/09

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff 12/16/

Dean Tardiff
Laboratory Manager

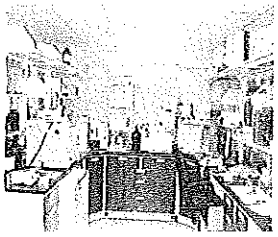
FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS

PHONE: (732) 532-4359 FAX: (732) 532-6263

WET-CHEM - METALS - ORGANICS - FIELD SAMPLING

NJDEP CERTIFICATION #13461



ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: 10-11823

Parcel 76/Bldg. 540, UST 540

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
540-A, North Wall	9042501	Soil	22-Oct-09 13:00	10/22/09
540-B, South Wall	9042502	Soil	22-Oct-09 13:13	10/22/09
540-C, East Wall	9042503	Soil	22-Oct-09 13:30	10/22/09
540-D, West Wall	9042504	Soil	22-Oct-09 13:44	10/22/09
540-E, Center Bottom	9042505	Soil	22-Oct-09 15:05	10/22/09
540-F, Duplicate	9042506	Soil	22-Oct-09 13:44	10/22/09

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, % SOLIDS

Dean Tardiff 12/16/09
Dean Tardiff/Date
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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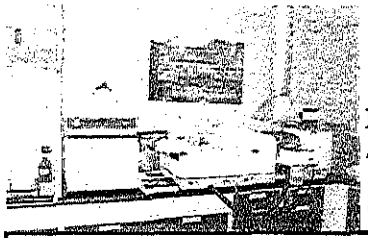
CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:jacqueline.hamer@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: CHARLES APPLEBY
Phone #: X 26242 22692
( )DERA ( )OMA (X)Other: BRAC
Project No: 10-11823
Location: PARCEL 76
BLDG. 540, UST 540
Samplers Name / Company: FRANK ACCORSI / TVS

Analysis Parameters: TPH, 8260 Solvents, FID (ppm), DEPTH (ft)

LIMS/Work Order #	Sample Location	Date	Time	Sample Type	# bottles	TPH	8260 Solvents					FID (ppm)	DEPTH (ft)	Remarks / Preservation Method
90425.01	540-A, NORTH WALL	10-22-09	1300	SOIL	1	X	X					0	6-6.5	ICE
90425.02	540-B, SOUTH WALL		1313			X	X					0	6-6.5	
90425.03	540-C, EAST END		1330			X	X					0	6-6.5	
90425.04	540-D, WEST END		1344			X	X					0	6-6.5	
90425.05	540-E, CENTER BOTTOM		1505			X	X					0	6.5-7	
90425.06	540-F, DUPLICATE		1344			X	X					0	6-6.5	
												~~0~~		

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Frank Accorsi	10-22-09 1540				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, (X)Reduced, ( )Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: ( )Standard 3 wks, (X)Rush ~~3 Wks~~ 7 DAYS, (X)ASAP Verbal ____ Hrs.

Remarks:

20000

print legibly

new coc..XLS12/19/2008

SAMPLE RECEIPT FORM

Date Received: 10-22-09 Work Order ID#: 904125

Site/Proj. Name: Bly Sand/US Cooler Temp (°C): 4.0 °C

Received By: T. Cunningham Sign:
(Print name)

Check the appropriate box

1. Did the samples come in a cooler? ☑ yes ☐ no ☐ n/a
2. Were samples rec'd in good condition? ☑ yes ☐ no
3. Was the chain of custody filled out correctly and legibly? ☑ yes ☐ no
4. Was the chain of custody signed in the appropriate place? ☑ yes ☐ no
5. Did the labels agree with the chain of custody? ☑ yes ☐ no
6. Were the correct containers/preservatives used? ☑ yes ☐ no
7. Was a sufficient amount of sample supplied? ☑ yes ☐ no
8. Were air bubbles present in VOA vials? ☐ yes ☐ no ☑ n/a
9. Were samples received on ice? ☑ yes ☐ no
10. Were analyze-immediately tests perform within 15 minutes ☐ yes ☐ no ☑ n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

_____

_____

_____

000003

GPS
POINTS

U.S. ARMY - FT. MONMOUTH, NJ

BUILDING 540 - (1,000 G. UST)

SOIL SAMPLING GPS POSITIONS & COORDINATES

US STATE PLANE 1983, NJ (NY EAST) 2900, NAD 1983 (CONUS)

(IN US SURVEY FEET)

SAMPLE POINTS

POSITION/DESCRIPTION	Y COORDINATE (NORTHING)	X COORDINATE (EASTING)
540A -NORTH WALL	541162.577	619872.463
540B -SOUTH WALL	541159.583	619873.383
540C- EAST WALL	541161.584	619880.073
540D-WEST WALL	541161.138	619867.848
540E- BOTTOM	541161.726	619873.503

FIELD DUPLICATE IDENTIFICATION

Field Duplicate Identification

Lab ID: 90425

Site: Parcel 76
Bldg. 540
UST # 540

The Field Duplicate was performed on 540-D, West End (Lab ID 9042504).

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-COFORMANCE SUMMARY

TPHC CONFORMANCE/NON–CONFORMANCE SUMMARY REPORT

		Indicate Yes, No, N/A
1.	Method Detection Limits Provided	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range)	Yes
4.	Duplicate Results Summary Meet Criteria	Yes
5.	IR Spectra submitted for standards, blanks and samples	NA
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted	Yes
7.	Analysis holding time met (If not met, list number of days exceeded for each sample)	Yes

Additional comments: _____

Laboratory Manager: Dean Tudor Date: 12/16/09

RESULTS SUMMARY

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	**Project #:** **Location:** **ECP:** **Work Order:**	10-11823 PARCEL 76
Analysis:	OQA-QAM-025	**Date Received:**	22-Oct-09
Matrix:	Soil	**Date Extracted:**	23-Oct-09
Inst. ID:	GC TPHC INST. #1	**Extraction Method:**	Shake
Column Type:	RTX-5, 0.32mm ID, 30 m	**Analysis Complete:**	27-Oct-09
Injection Volume:	1 uL	**Analyst:**	Robert Szot
Blank Conc.:	0.00		

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data Qualifiers	
MB10230901	MB10230901	1.00	15.04	100.00	23	332	0.00		
LCS10230901	LCS10230901	1.00	15.06	100.00	23	332	733.24		
9042501	540-A NORTH WALL	1.00	15.08	89.5	26	370	0.00		
9042502	540-B SOUTH WALL	1.00	15.05	87.3	27	381	0.00		
9042503	540-C EAST END	1.00	15.29	83.1	28	394	0.00		
9042504	540-D WEST END	1.00	15.08	81.7	28	406	0.00		
9042505	540-E CENTER BOTTOM	1.00	15.03	80.7	29	412	0.00		
9042506	540-F DUPLICATE	1.00	15.03	82.3	28	404	0.00		

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution

000073

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature Dean Tarazi

Date: 12/16/09

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff 12/16/

Dean Tardiff
Laboratory Manager

FORT MONMOUTH ENVIRONMENTAL TESTING LABORATORY

DIRECTORATE OF PUBLIC WORKS
PHONE: (732) 532-4359 FAX: (732) 532-6263
WET-CHEM - METALS - ORGANICS - FIELD SAMPLING
NJDEP CERTIFICATION #13461

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: 10-11823

Bldg. 543

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
543-A, North Wall	9044801	Soil	17-Nov-09 10:30	11/17/09
543-B, South Wall	9044802	Soil	17-Nov-09 11:00	11/17/09
543-C, East Wall	9044803	Soil	17-Nov-09 11:40	11/17/09
5430-D, West Wall	9044804	Soil	17-Nov-09 14:00	11/17/09
543-E, Bottom	9044805	Soil	17-Nov-09 11:20	11/17/09
543-F, Duplicate	9044806	Soil	17-Nov-09 10:30	11/17/09

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
BN+15, TPHC, % SOLIDS

Dean Tardiff 1/7/10
Dean Tardiff/Date
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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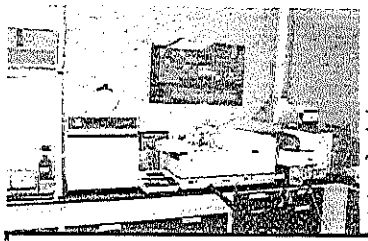
CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:jacqueline.hamer@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: CHUCK APPLEBY
Phone #: X 26292
( )DERA ( )OMA (X)Other: BRAC
Project No: 10-11823
Location: BLDG. 543
Samplers Name / Company: FRANK ACCORSI / TVS

LIMS/Work Order #	Sample Location	Date	Time	Sample Type	# bottles	TPH	% Solids				PID (ppm)	FID (ppm)	DEPTH (ft)	Comments: Remarks / Preservation Method
90448 01	543-A, NORTH WALL	11-17-09	1030	SOIL	1	X	X				11.0	2.0	8.5-9	ICE
02	543-B, SOUTH WALL		1100			X	X				13.0	3.5	8.5-9	
03	543-C, EAST WALL		1140			X	X				3.0	1.0	8.5-9	
04	543-D, WEST WALL		1400			X	X				8.0	2.2	8-8.5	
05	543-E, BOTTOM		1120			X	X				0	0	9.5-10	
06	543-F, DUPLICATE		1030			X	X				30.	9.5	8.5-9	

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Frank Accorsi	11-17-09 1500				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, (X)Reduced, ( )Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: ( )Standard 3 wks, (X)Rush 3 Wk., ( )ASAP Verbal ____ Hrs.
3 DAYS

Remarks:

200000

print legibly

new coc..XLS12/19/2008

SAMPLE RECEIPT FORM

Date Received: 11-17-09 Work Order ID#: 90448

Site/Proj. Name: Bldg 443/UST Cooler Temp (°C): 4.0°C

Received By: J. Mendiola Sign: J. Mendiola
(Print name)

Check the appropriate box

1. Did the samples come in a cooler? ☑ yes ☐ no ☐ n/a
2. Were samples rec'd in good condition? ☑ yes ☐ no
3. Was the chain of custody filled out correctly and legibly? ☑ yes ☐ no
4. Was the chain of custody signed in the appropriate place? ☑ yes ☐ no
5. Did the labels agree with the chain of custody? ☑ yes ☐ no
6. Were the correct containers/preservatives used? ☑ yes ☐ no
7. Was a sufficient amount of sample supplied? ☑ yes ☐ no
8. Were air bubbles present in VOA vials? ☐ yes ☑ no ☐ n/a
9. Were samples received on ice? ☑ yes ☐ no
10. Were analyze-immediately tests perform within 15 minutes ☐ yes ☐ no ☑ n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

Change of Chain of Custody

Lab Project ID#: 90448
Date Received: 11/17/09
Requested by: *(print)* F. Accorsi
Turnaround Time: ASAP

Site/Project Name: Bldg 543
Date of Change: 11/19/09
Sign: _____

1. Were the correct containers and/or preservatives used for the tests indicated? (Yes) No
2. Was sufficient amount of sample sent for the tests indicated? (Yes) No
3. Are samples within holding time for new analysis? (Yes) No
4. Was the change documented in the receipt logbook? (Yes) No

Received by: *(print)* _____ Sign: _____

Sample ID#	New Analysis	Sample ID#	New Analysis
9044801	STBD+IS		
02	1		
03			
06			

Comments: _____

GPS POINTS

U.S. ARMY - FT. MONMOUTH, NJ

BUILDING 543 - (1,000 G. UST)

SOIL SAMPLING GPS POSITIONS & COORDINATES

US STATE PLANE 1983, NJ (NY EAST) 2900, NAD 1983 (CONUS)

(IN US SURVEY FEET)

SAMPLE POINTS

POSITION/DESCRIPTION	Y COORDINATE (NORTHING)	X COORDINATE (EASTING)
543A -NORTH WALL	541146.674	619941.992
543B -SOUTH WALL	541133.711	619945.764
543C- EAST WALL	541145.415	619957.889
543D-WEST WALL	541140.591	619929.664
543E- BOTTOM	541141.634	619942.871

FIELD DUPLICATE IDENTIFICATION

Field Duplicate Identification

Lab ID: 90448 **Site:** Bldg. 543

The Field Duplicate was performed on 543-A, North Wall (Lab ID 9044801).

METHOD SUMMARY

Method Summary

EPA SW-846 Method 8270
Gas Chromatographic Determination of Semi-volatiles in Soil

Surrogates are added to a 10-gram soil sample that has been dried with sodium sulfate. The sample is then extracted using a soxtherm extractor. The extract is concentrated to 1 ml. Internal standards are added and the sample is injected into a GC/MS system. Semi-volatiles are identified and quantitated. The final concentration is calculated using soil weight, percent moisture and concentration.

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

	Indicate Yes, No, N/A
1. Chromatograms labeled/Compounds identified (Field samples and method blanks)	Yes
2. Retention times for chromatograms provided	Yes
3. GC/MS Tune Specifications	
a. BFB Meet Criteria	NA
b. DFTPP Meet Criteria	Yes
4. GC/MS Tuning Frequency – Performed every 24 hours for 600 series and 12 hours for 8000 series	Yes
5. GC/MS Calibration – Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series	Yes
6. GC/MS Calibration requirements	
a. Calibration Check Compounds Meet Criteria	Yes
b. System Performance Check Compounds Meet Criteria	Yes
7. Blank Contamination – If yes, List compounds and concentrations in each blank:	No
a. VOA Fraction NA	
b. B/N Fraction	
c. Acid Fraction NA	
8. Surrogate Recoveries Meet Criteria	Yes
If not met, list those compounds and their recoveries, which fall outside the acceptable range:	
a. VOA Fraction NA	
b. B/N Fraction	
c. Acid Fraction NA	
If not met, were the calculations checked and the results qualified as "estimated"?	
9. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria (If not met, list those compounds and their recoveries, which fall outside the acceptable range)	Yes
a. VOA Fraction NA	
b. B/N Fraction	
c. Acid Fraction NA	

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT (cont.)

Indicate
Yes, No, N/A

10. Internal Standard Area/Retention Time Shift Meet Criteria — Yes
(If not met, list those compounds, which fall outside the acceptable range)

a. VOA Fraction NA
b. B/N Fraction _____
c. Acid Fraction NA

11. Extraction Holding Time Met — Yes

If not met, list the number of days exceeded for each sample: _____

12. Analysis Holding Time Met — Yes

If not met, list the number of days exceeded for each sample: _____

Additional Comments:

Laboratory Manager: Dean Tarry Date: 1/7/10

TPHC CONFORMANCE/NON–CONFORMANCE SUMMARY REPORT

		Indicate Yes, No, N/A
1.	Method Detection Limits Provided	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range)	Yes
4.	Duplicate Results Summary Meet Criteria	Yes
5.	IR Spectra submitted for standards, blanks and samples	NA
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted	Yes
7.	Analysis holding time met (If not met, list number of days exceeded for each sample)	Yes

Additional comments: _____

Laboratory Manager: Dean Tondre Date: 1/7/10

BASE NEUTRALS

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	D1164.D	Misc Info	METHOD 8270 11/20/09	Sample Weight	10.00 g
Operator	ROBERTS	Dilution factor	1	Percent Solids	100.0 %
Date Acquired	20-Nov-09	Sample Multiplier	0.100		
Sample Name	MB11190901	*Sample multiplier = (0.001*Dilution factor)/([sample weight(kg)]*[percent solids/100]*			
		Multiplied by 0.001 to convert ug/kg to mg/kg			

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL		Qualifiers
110-86-1	Pyridine			not detected	NLE	0.099	0.50	mg/kg	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.168	0.50	mg/kg	
62-53-3	Aniline			not detected	NLE	0.267	0.50	mg/kg	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.193	0.50	mg/kg	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.167	0.50	mg/kg	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.174	0.50	mg/kg	
100-51-6	Benzyl alcohol			not detected	NLE	0.258	0.50	mg/kg	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.194	0.50	mg/kg	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	0.224	0.50	mg/kg	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.253	0.50	mg/kg	
67-72-1	Hexachloroethane			not detected	10	0.189	0.50	mg/kg	
98-95-3	Nitrobenzene			not detected	10	0.226	0.50	mg/kg	
78-59-1	Isophorone			not detected	100	0.240	0.50	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.198	0.50	mg/kg	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.219	0.50	mg/kg	
91-20-3	Naphthalene			not detected	NLE	0.242	0.50	mg/kg	
106-47-8	4-Chloroaniline			not detected	NLE	0.370	0.50	mg/kg	
87-68-3	Hexachlorobutadiene			not detected	1	0.216	0.50	mg/kg	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.260	0.50	mg/kg	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.146	1.00	mg/kg	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.251	0.50	mg/kg	
88-74-4	2-Nitroaniline			not detected	NLE	0.307	0.50	mg/kg	
131-11-3	Dimethylphthalate			not detected	7000	0.264	0.50	mg/kg	
208-96-8	Acenaphthylene			not detected	NLE	0.272	0.50	mg/kg	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.261	0.50	mg/kg	
99-09-2	3-Nitroaniline			not detected	NLE	0.221	0.50	mg/kg	
83-32-9	Acenaphthene			not detected	400	0.271	0.50	mg/kg	
132-64-9	Dibenzofuran			not detected	NLE	0.319	0.50	mg/kg	
121-14-2	2,4-Dinitrotoluene			not detected	10	0.261	0.50	mg/kg	
84-66-2	Diethylphthalate			not detected	5000	0.250	0.50	mg/kg	
86-73-7	Fluorene			not detected	300	0.283	0.50	mg/kg	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.278	0.50	mg/kg	
100-01-6	4-Nitroaniline			not detected	NLE	0.273	1.00	mg/kg	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.271	0.50	mg/kg	
103-33-3	Azobenzene			not detected	NLE	0.287	0.50	mg/kg	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.288	0.50	mg/kg	
118-74-1	Hexachlorobenzene			not detected	10	0.300	0.50	mg/kg	
85-01-8	Phenanthrene			not detected	NLE	0.297	0.50	mg/kg	
120-12-7	Anthracene			not detected	2000	0.299	0.50	mg/kg	
84-74-2	Di-n-butylphthalate			not detected	900	0.286	0.50	mg/kg	
206-44-0	Fluoranthene			not detected	300	0.297	0.50	mg/kg	

Semi-Volatile Analysis Report
Page 2

Data File Name	D1164.D	Misc Info	METHOD 8270 11/20/09	Sample Weight	10.00 g
Operator	ROBERTS	Dilution factor	1	Percent Solids	100.0 %
Date Acquired	20-Nov-09	Sample Multiplier	0.100		
Sample Name	MB11190901	*Sample multiplier = (0.001*Dilution factor)/([sample weight(kg)]*[percent solids/100]*			
		Multiplied by 0.001 to convert ug/kg to mg/kg			

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL		Qualifiers
92-87-5	Benzidine			not detected	50	0.269	0.50	mg/kg	
129-00-0	Pyrene			not detected	200	0.317	0.50	mg/kg	
85-68-7	Butylbenzylphthalate			not detected	100	0.263	0.50	mg/kg	
56-55-3	Benzo[a]anthracene			not detected	10	0.298	0.50	mg/kg	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.272	0.50	mg/kg	
218-01-9	Chrysene			not detected	20	0.281	0.50	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.316	0.50	mg/kg	
117-84-0	Di-n-octylphthalate			not detected	100	0.265	0.50	mg/kg	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.214	0.50	mg/kg	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.257	0.50	mg/kg	
50-32-8	Benzo[a]pyrene			not detected	20	0.230	0.50	mg/kg	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.195	0.50	mg/kg	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.182	0.50	mg/kg	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.185	0.50	mg/kg	

* 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
MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time
RL= Reporting Limit. The values between the MDL and RL are considered estimated.
J = Estimated concentration, value lies between RL and MDL

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **MB11190901**

Lab Name: FMETL Lab Code 13461

Project: _____ Case No.: 90448 Location: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: MB11190901

Sample wt/vol: 10 (g/ml) G Lab File ID: D1164.D

Level: (low/med) LOW Date Received: 11/19/2009

% Moisture: 0 decanted: (Y/N) N Date Extracted: 11/19/2009

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/20/2009

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/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	extraction by-product	7.09	7300	J
2.	extraction by-product	12.90	550	J
3.	extraction by-product	14.11	15000	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	D1168.D	Misc Info	543-A NORTH WALL	Sample Weight	10.18 g
Operator	ROBERTS	Dilution factor	1	Percent Solids	78.4 %
Date Acquired	20-Nov-09	Sample Multiplier	0.125		
Sample Name	9044801	*Sample multiplier = (0.001*Dilution factor)/([sample weight(kg)]*[percent solids/100]*			
		Multiplied by 0.001 to convert ug/kg to mg/kg			

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL		Qualifiers
110-86-1	Pyridine			not detected	NLE	0.124	0.63	mg/kg	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.210	0.63	mg/kg	
62-53-3	Aniline			not detected	NLE	0.335	0.63	mg/kg	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.242	0.63	mg/kg	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.209	0.63	mg/kg	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.218	0.63	mg/kg	
100-51-6	Benzyl alcohol			not detected	NLE	0.323	0.63	mg/kg	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.243	0.63	mg/kg	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	0.281	0.63	mg/kg	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.317	0.63	mg/kg	
67-72-1	Hexachloroethane			not detected	10	0.237	0.63	mg/kg	
98-95-3	Nitrobenzene			not detected	10	0.283	0.63	mg/kg	
78-59-1	Isophorone			not detected	100	0.301	0.63	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.248	0.63	mg/kg	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.274	0.63	mg/kg	
91-20-3	Naphthalene	12.55	4646297	3.50 mg/kg	NLE	0.303	0.63	mg/kg	
106-47-8	4-Chloroaniline			not detected	NLE	0.464	0.63	mg/kg	
87-68-3	Hexachlorobutadiene			not detected	1	0.271	0.63	mg/kg	
91-57-6	2-Methylnaphthalene	14.02	22165076	23.44 mg/kg	NLE	0.326	0.63	mg/kg	E
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.183	1.25	mg/kg	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.314	0.63	mg/kg	
88-74-4	2-Nitroaniline			not detected	NLE	0.385	0.63	mg/kg	
131-11-3	Dimethylphthalate			not detected	7000	0.331	0.63	mg/kg	
208-96-8	Acenaphthylene			not detected	NLE	0.341	0.63	mg/kg	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.327	0.63	mg/kg	
99-09-2	3-Nitroaniline			not detected	NLE	0.277	0.63	mg/kg	
83-32-9	Acenaphthene			not detected	400	0.340	0.63	mg/kg	
132-64-9	Dibenzofuran			not detected	NLE	0.400	0.63	mg/kg	
121-14-2	2,4-Dinitrotoluene			not detected	10	0.327	0.63	mg/kg	
84-66-2	Diethylphthalate			not detected	5000	0.313	0.63	mg/kg	
86-73-7	Fluorene			not detected	300	0.355	0.63	mg/kg	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.348	0.63	mg/kg	
100-01-6	4-Nitroaniline			not detected	NLE	0.342	1.25	mg/kg	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.340	0.63	mg/kg	
103-33-3	Azobenzene			not detected	NLE	0.360	0.63	mg/kg	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.361	0.63	mg/kg	
118-74-1	Hexachlorobenzene			not detected	10	0.376	0.63	mg/kg	
85-01-8	Phenanthrene	19.33	12751622	8.71 mg/kg	NLE	0.372	0.63	mg/kg	
120-12-7	Anthracene			not detected	2000	0.375	0.63	mg/kg	
84-74-2	Di-n-butylphthalate			not detected	900	0.358	0.63	mg/kg	
206-44-0	Fluoranthene	21.75	686637	0.44 mg/kg	300	0.372	0.63	mg/kg	J

Semi-Volatile Analysis Report
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Data File Name	D1168.D	Misc Info	543-A NORTH WALL	Sample Weight	10.18 g
Operator	ROBERTS	Dilution factor	1	Percent Solids	78.4 %
Date Acquired	20-Nov-09	Sample Multiplier	0.125		
Sample Name	9044801	*Sample multiplier = (0.001*Dilution factor)/([sample weight(kg)]*[percent solids/100]*			
		Multiplied by 0.001 to convert ug/kg to mg/kg			

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL		Qualifiers
92-87-5	Benzidine			not detected	50	0.337	0.63	mg/kg	
129-00-0	Pyrene	22.21	1351912	0.89 mg/kg	200	0.397	0.63	mg/kg	
85-68-7	Butylbenzylphthalate			not detected	100	0.330	0.63	mg/kg	
56-55-3	Benzo[a]anthracene			not detected	10	0.373	0.63	mg/kg	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.341	0.63	mg/kg	
218-01-9	Chrysene			not detected	20	0.352	0.63	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.396	0.63	mg/kg	
117-84-0	Di-n-octylphthalate			not detected	100	0.332	0.63	mg/kg	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.268	0.63	mg/kg	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.322	0.63	mg/kg	
50-32-8	Benzo[a]pyrene			not detected	20	0.288	0.63	mg/kg	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.244	0.63	mg/kg	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.228	0.63	mg/kg	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.232	0.63	mg/kg	

* 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
RL= Reporting Limit. The values between the MDL and RL are considered estimated.
J = Estimated concentration, value lies between RL and MDL

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	D1173.D	Misc Info	543-A NORTH WALL	Sample Weight	10.18 g
Operator	ROBERTS	Dilution factor	5	Percent Solids	78.4 %
Date Acquired	20-Nov-09	Sample Multiplier	0.626		
Sample Name	9044801 5x	*Sample multiplier = (0.001*Dilution factor)/([sample weight(kg)]*[percent solids/100]*			
		Multiplied by 0.001 to convert ug/kg to mg/kg			

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL		Qualifiers
110-86-1	Pyridine			not detected	NLE	0.620	3.13	mg/kg	
62-75-9	N-nitroso-dimethylamine			not detected	20	1.052	3.13	mg/kg	
62-53-3	Aniline			not detected	NLE	1.673	3.13	mg/kg	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.209	3.13	mg/kg	
541-73-1	1,3-Dichlorobenzene			not detected	600	1.046	3.13	mg/kg	
106-46-7	1,4-Dichlorobenzene			not detected	75	1.090	3.13	mg/kg	
100-51-6	Benzyl alcohol			not detected	NLE	1.616	3.13	mg/kg	
95-50-1	1,2-Dichlorobenzene			not detected	600	1.215	3.13	mg/kg	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.403	3.13	mg/kg	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	1.585	3.13	mg/kg	
67-72-1	Hexachloroethane			not detected	10	1.184	3.13	mg/kg	
98-95-3	Nitrobenzene			not detected	10	1.416	3.13	mg/kg	
78-59-1	Isophorone			not detected	100	1.504	3.13	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.240	3.13	mg/kg	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.372	3.13	mg/kg	
91-20-3	Naphthalene	12.54	1030642	3.66 mg/kg	NLE	1.516	3.13	mg/kg	D
106-47-8	4-Chloroaniline			not detected	NLE	2.318	3.13	mg/kg	
87-68-3	Hexachlorobutadiene			not detected	1	1.353	3.13	mg/kg	
91-57-6	2-Methylnaphthalene	13.96	8342013	41.66 mg/kg	NLE	1.629	3.13	mg/kg	D
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.915	6.26	mg/kg	
91-58-7	2-Chloronaphthalene			not detected	NLE	1.572	3.13	mg/kg	
88-74-4	2-Nitroaniline			not detected	NLE	1.923	3.13	mg/kg	
131-11-3	Dimethylphthalate			not detected	7000	1.654	3.13	mg/kg	
208-96-8	Acenaphthylene			not detected	NLE	1.704	3.13	mg/kg	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.635	3.13	mg/kg	
99-09-2	3-Nitroaniline			not detected	NLE	1.385	3.13	mg/kg	
83-32-9	Acenaphthene			not detected	400	1.698	3.13	mg/kg	
132-64-9	Dibenzofuran			not detected	NLE	1.998	3.13	mg/kg	
121-14-2	2,4-Dinitrotoluene			not detected	10	1.635	3.13	mg/kg	
84-66-2	Diethylphthalate			not detected	5000	1.566	3.13	mg/kg	
86-73-7	Fluorene			not detected	300	1.773	3.13	mg/kg	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.742	3.13	mg/kg	
100-01-6	4-Nitroaniline			not detected	NLE	1.710	6.26	mg/kg	
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.698	3.13	mg/kg	
103-33-3	Azobenzene			not detected	NLE	1.798	3.13	mg/kg	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.804	3.13	mg/kg	
118-74-1	Hexachlorobenzene			not detected	10	1.879	3.13	mg/kg	
85-01-8	Phenanthrene	19.23	3873800	12.42 mg/kg	NLE	1.861	3.13	mg/kg	D
120-12-7	Anthracene			not detected	2000	1.873	3.13	mg/kg	
84-74-2	Di-n-butylphthalate			not detected	900	1.792	3.13	mg/kg	
206-44-0	Fluoranthene			not detected	300	1.861	3.13	mg/kg	

Semi-Volatile Analysis Report
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Data File Name	D1173.D	Misc Info	543-A NORTH WALL	Sample Weight	10.18 g
Operator	ROBERTS	Dilution factor	5	Percent Solids	78.4 %
Date Acquired	20-Nov-09	Sample Multiplier	0.626		
Sample Name	9044801 5x	*Sample multiplier = (0.001*Dilution factor)/([sample weight(kg)]*[percent solids/100]*			
		Multiplied by 0.001 to convert ug/kg to mg/kg			

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL		Qualifiers	
92-87-5	Benzidine			not detected	50	1.685	3.13	mg/kg		
129-00-0	Pyrene	22.15	274967	0.81 mg/kg	200	1.986	3.13	mg/kg	D	J
85-68-7	Butylbenzylphthalate			not detected	100	1.648	3.13	mg/kg		
56-55-3	Benzo[a]anthracene			not detected	10	1.867	3.13	mg/kg		
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.704	3.13	mg/kg		
218-01-9	Chrysene			not detected	20	1.760	3.13	mg/kg		
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.980	3.13	mg/kg		
117-84-0	Di-n-octylphthalate			not detected	100	1.660	3.13	mg/kg		
205-99-2	Benzo[b]fluoranthene			not detected	10	1.341	3.13	mg/kg		
207-08-9	Benzo[k]fluoranthene			not detected	2	1.610	3.13	mg/kg		
50-32-8	Benzo[a]pyrene			not detected	20	1.441	3.13	mg/kg		
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	1.222	3.13	mg/kg		
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.140	3.13	mg/kg		
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.159	3.13	mg/kg		

* 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
MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time
RL= Reporting Limit. The values between the MDL and RL are considered estimated.
J = Estimated concentration, value lies between RL and MDL

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **NORTH WALL**

Lab Name: FMETL Lab Code 13461

Project: _____ Case No.: 90448 Location: _____ SDG No.: _____

Matrix: (soil/water) SOIL Lab Sample ID: 9044801

Sample wt/vol: 10.18 (g/ml) G Lab File ID: D1168.D

Level: (low/med) LOW Date Received: 11/19/2009

% Moisture: 21.6 decanted: (Y/N) N Date Extracted: 11/19/2009

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

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

Number TICs found: 25 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C3 alkyl benzene	9.68	3100	J
2.	C4 alkyl benzene	9.92	680	J
3.	C3 alkyl benzene	10.13	1400	J
4.	Alkane: Cyclic	10.28	1900	J
5.	C4 alkyl benzene	10.47	1200	J
6.	C4 alkyl benzene	10.53	4000	J
7.	C4 alkyl benzene	10.60	6000	J
8.	unknown hydrocarbon	10.76	3400	J
9.	C4 alkyl benzene	10.89	810	J
10.	C5 alkyl benzene	11.25	5400	J
11.	Alkane: Branched	11.38	3000	J
12.	C4 alkyl benzene	11.49	1100	J
13.	C4 alkyl benzene	11.72	1300	J
14.	C5 alkyl benzene	11.82	1800	J
15.	Alkane: Straight-Chain	11.89	2000	J
16.	Alkane: Branched	11.96	2500	J
17.	C5 alkyl benzene	12.12	2400	J
18.	C5 alkyl benzene	12.26	1300	J
19.	unknown hydrocarbon	12.44	3200	J
20.	unknown hydrocarbon	12.88	2700	J
21.	Alkane: Branched	13.44	7700	J
22. 000090-12-0	Naphthalene, 1-methyl-	14.20	2600	JN
23.	Alkane: Branched	15.62	5000	J
24.	unknown PAH	21.28	5000	J
25.	unknown hydrocarbon	24.29	630	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	D1166.D	Misc Info	543-B SOUTH WALL	Sample Weight	10.49 g
Operator	ROBERTS	Dilution factor	1	Percent Solids	80.2 %
Date Acquired	20-Nov-09	Sample Multiplier	0.119		
Sample Name	9044802	*Sample multiplier = (0.001*Dilution factor)/([sample weight(kg)]*[percent solids/100]*			
		Multiplied by 0.001 to convert ug/kg to mg/kg			

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL		Qualifiers
110-86-1	Pyridine			not detected	NLE	0.118	0.59	mg/kg	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.200	0.59	mg/kg	
62-53-3	Aniline			not detected	NLE	0.317	0.59	mg/kg	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.229	0.59	mg/kg	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.199	0.59	mg/kg	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.207	0.59	mg/kg	
100-51-6	Benzyl alcohol			not detected	NLE	0.307	0.59	mg/kg	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.231	0.59	mg/kg	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	0.266	0.59	mg/kg	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.301	0.59	mg/kg	
67-72-1	Hexachloroethane			not detected	10	0.225	0.59	mg/kg	
98-95-3	Nitrobenzene			not detected	10	0.269	0.59	mg/kg	
78-59-1	Isophorone			not detected	100	0.285	0.59	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.235	0.59	mg/kg	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.260	0.59	mg/kg	
91-20-3	Naphthalene	12.55	2828661	2.08 mg/kg	NLE	0.288	0.59	mg/kg	
106-47-8	4-Chloroaniline			not detected	NLE	0.440	0.59	mg/kg	
87-68-3	Hexachlorobutadiene			not detected	1	0.257	0.59	mg/kg	
91-57-6	2-Methylnaphthalene	13.98	12545217	12.95 mg/kg	NLE	0.309	0.59	mg/kg	E
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.174	1.19	mg/kg	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.298	0.59	mg/kg	
88-74-4	2-Nitroaniline			not detected	NLE	0.365	0.59	mg/kg	
131-11-3	Dimethylphthalate			not detected	7000	0.314	0.59	mg/kg	
208-96-8	Acenaphthylene			not detected	NLE	0.323	0.59	mg/kg	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.310	0.59	mg/kg	
99-09-2	3-Nitroaniline			not detected	NLE	0.263	0.59	mg/kg	
83-32-9	Acenaphthene			not detected	400	0.322	0.59	mg/kg	
132-64-9	Dibenzofuran			not detected	NLE	0.379	0.59	mg/kg	
121-14-2	2,4-Dinitrotoluene			not detected	10	0.310	0.59	mg/kg	
84-66-2	Diethylphthalate			not detected	5000	0.297	0.59	mg/kg	
86-73-7	Fluorene			not detected	300	0.336	0.59	mg/kg	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.330	0.59	mg/kg	
100-01-6	4-Nitroaniline			not detected	NLE	0.324	1.19	mg/kg	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.322	0.59	mg/kg	
103-33-3	Azobenzene			not detected	NLE	0.341	0.59	mg/kg	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.342	0.59	mg/kg	
118-74-1	Hexachlorobenzene			not detected	10	0.357	0.59	mg/kg	
85-01-8	Phenanthrene	19.27	7226957	4.55 mg/kg	NLE	0.353	0.59	mg/kg	
120-12-7	Anthracene			not detected	2000	0.355	0.59	mg/kg	
84-74-2	Di-n-butylphthalate			not detected	900	0.340	0.59	mg/kg	
206-44-0	Fluoranthene	21.72	459945	0.27 mg/kg	300	0.353	0.59	mg/kg	J

Semi-Volatile Analysis Report
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Data File Name	D1166.D	Misc Info	543-B SOUTH WALL	Sample Weight	10.49 g
Operator	ROBERTS	Dilution factor	1	Percent Solids	80.2 %
Date Acquired	20-Nov-09	Sample Multiplier	0.119		
Sample Name	9044802	*Sample multiplier = (0.001*Dilution factor)/([sample weight(kg)]*[percent solids/100]*			
		Multiplied by 0.001 to convert ug/kg to mg/kg			

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL		Qualifiers
92-87-5	Benzidine			not detected	50	0.320	0.59	mg/kg	
129-00-0	Pyrene	22.19	966691	0.61 mg/kg	200	0.377	0.59	mg/kg	
85-68-7	Butylbenzylphthalate			not detected	100	0.313	0.59	mg/kg	
56-55-3	Benzo[a]anthracene			not detected	10	0.354	0.59	mg/kg	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.323	0.59	mg/kg	
218-01-9	Chrysene			not detected	20	0.334	0.59	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.376	0.59	mg/kg	
117-84-0	Di-n-octylphthalate			not detected	100	0.315	0.59	mg/kg	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.254	0.59	mg/kg	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.305	0.59	mg/kg	
50-32-8	Benzo[a]pyrene			not detected	20	0.273	0.59	mg/kg	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.232	0.59	mg/kg	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.216	0.59	mg/kg	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.220	0.59	mg/kg	

* 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
MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time
RL= Reporting Limit. The values between the MDL and RL are considered estimated.
J = Estimated concentration, value lies between RL and MDL

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	D1172.D	Misc Info	543-B SOUTH WALL	Sample Weight	10.48 g
Operator	ROBERTS	Dilution factor	2	Percent Solids	80.2 %
Date Acquired	20-Nov-09	Sample Multiplier	0.238		
Sample Name	9044802 2x	*Sample multiplier = (0.001*Dilution factor)/([sample weight(kg)]*[percent solids/100]*			
		Multiplied by 0.001 to convert ug/kg to mg/kg			

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL		Qualifiers
110-86-1	Pyridine			not detected	NLE	0.236	1.19	mg/kg	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.400	1.19	mg/kg	
62-53-3	Aniline			not detected	NLE	0.635	1.19	mg/kg	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.459	1.19	mg/kg	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.397	1.19	mg/kg	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.414	1.19	mg/kg	
100-51-6	Benzyl alcohol			not detected	NLE	0.614	1.19	mg/kg	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.462	1.19	mg/kg	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	0.533	1.19	mg/kg	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.602	1.19	mg/kg	
67-72-1	Hexachloroethane			not detected	10	0.450	1.19	mg/kg	
98-95-3	Nitrobenzene			not detected	10	0.538	1.19	mg/kg	
78-59-1	Isophorone			not detected	100	0.571	1.19	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.471	1.19	mg/kg	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.521	1.19	mg/kg	
91-20-3	Naphthalene	12.54	1541600	2.09 mg/kg	NLE	0.576	1.19	mg/kg	D
106-47-8	4-Chloroaniline			not detected	NLE	0.880	1.19	mg/kg	
87-68-3	Hexachlorobutadiene			not detected	1	0.514	1.19	mg/kg	
91-57-6	2-Methylnaphthalene	13.96	7842228	14.92 mg/kg	NLE	0.619	1.19	mg/kg	D
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.347	2.38	mg/kg	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.597	1.19	mg/kg	
88-74-4	2-Nitroaniline			not detected	NLE	0.731	1.19	mg/kg	
131-11-3	Dimethylphthalate			not detected	7000	0.628	1.19	mg/kg	
208-96-8	Acenaphthylene			not detected	NLE	0.647	1.19	mg/kg	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.621	1.19	mg/kg	
99-09-2	3-Nitroaniline			not detected	NLE	0.526	1.19	mg/kg	
83-32-9	Acenaphthene			not detected	400	0.645	1.19	mg/kg	
132-64-9	Dibenzofuran			not detected	NLE	0.759	1.19	mg/kg	
121-14-2	2,4-Dinitrotoluene			not detected	10	0.621	1.19	mg/kg	
84-66-2	Diethylphthalate			not detected	5000	0.595	1.19	mg/kg	
86-73-7	Fluorene			not detected	300	0.673	1.19	mg/kg	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.662	1.19	mg/kg	
100-01-6	4-Nitroaniline			not detected	NLE	0.650	2.38	mg/kg	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.645	1.19	mg/kg	
103-33-3	Azobenzene			not detected	NLE	0.683	1.19	mg/kg	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.685	1.19	mg/kg	
118-74-1	Hexachlorobenzene			not detected	10	0.714	1.19	mg/kg	
85-01-8	Phenanthrene	19.24	4392650	5.41 mg/kg	NLE	0.707	1.19	mg/kg	D
120-12-7	Anthracene			not detected	2000	0.711	1.19	mg/kg	
84-74-2	Di-n-butylphthalate			not detected	900	0.681	1.19	mg/kg	
206-44-0	Fluoranthene	21.69	222282	0.26 mg/kg	300	0.707	1.19	mg/kg	D J

Semi-Volatile Analysis Report
Page 2

Data File Name	D1172.D	Misc Info	543-B SOUTH WALL	Sample Weight	10.48 g
Operator	ROBERTS	Dilution factor	2	Percent Solids	80.2 %
Date Acquired	20-Nov-09	Sample Multiplier	0.238		
Sample Name	9044802 2x	*Sample multiplier = (0.001*Dilution factor)/([sample weight(kg)]*[percent solids/100]*			
		Multiplied by 0.001 to convert ug/kg to mg/kg			

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL		Qualifiers	
92-87-5	Benzidine			not detected	50	0.640	1.19	mg/kg		
129-00-0	Pyrene	22.16	474823	0.55 mg/kg	200	0.754	1.19	mg/kg	D	J
85-68-7	Butylbenzylphthalate			not detected	100	0.626	1.19	mg/kg		
56-55-3	Benzo[a]anthracene			not detected	10	0.709	1.19	mg/kg		
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.647	1.19	mg/kg		
218-01-9	Chrysene			not detected	20	0.669	1.19	mg/kg		
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.752	1.19	mg/kg		
117-84-0	Di-n-octylphthalate			not detected	100	0.631	1.19	mg/kg		
205-99-2	Benzo[b]fluoranthene			not detected	10	0.509	1.19	mg/kg		
207-08-9	Benzo[k]fluoranthene			not detected	2	0.612	1.19	mg/kg		
50-32-8	Benzo[a]pyrene			not detected	20	0.547	1.19	mg/kg		
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.464	1.19	mg/kg		
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.433	1.19	mg/kg		
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.440	1.19	mg/kg		

* 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
MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time
RL= Reporting Limit. The values between the MDL and RL are considered estimated.
J = Estimated concentration, value lies between RL and MDL

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **SOUTH WALL**

Lab Name: FMETL Lab Code 13461

Project: Case No.: 90448 Location: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9044802

Sample wt/vol: 10.49 (g/ml) G Lab File ID: D1166.D

Level: (low/med) LOW Date Received: 11/19/2009

% Moisture: 19.8 decanted: (Y/N) N Date Extracted: 11/19/2009

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 25 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	C3 alkyl benzene	9.68	2700	J
2.	C4 alkyl benzene	10.60	3300	J
3.	C4 alkyl benzene	10.75	2500	J
4.	Alkane: Straight-Chain	11.15	7400	J
5.	unknown hydrocarbon	11.25	3000	J
6.	Alkane: Branched	13.41	3200	J
7.	Alkane: Branched	13.76	3900	J
8. 000091-57-6	Naphthalene, 1-methyl-	14.19	3800	JN
9.	Alkane: Branched	14.65	3200	J
10.	Alkane: Branched	14.95	7700	J
11.	Naphthalene, dimethyl-	15.29	7500	J
12.	Naphthalene, dimethyl-	15.45	6700	J
13.	Naphthalene, dimethyl-	15.50	3900	J
14.	Alkane: Branched	15.60	6800	J
15.	Alkane: Branched	16.05	4800	J
16.	Alkane: Cyclic	16.70	2600	J
17.	Naphthalene, trimethyl-	16.87	2100	J
18.	unknown hydrocarbon	17.52	4400	J
19.	Alkane: Straight-Chain	18.05	6200	J
20.	Alkane: Straight-Chain	18.98	3700	J
21.	Alkane: Branched	19.05	4800	J
22.	Alkane: Straight-Chain	19.86	2800	J
23.	unknown PAH	20.33	2400	J
24.	Alkane: Straight-Chain	20.69	3500	J
25.	Alkane: Straight-Chain	21.47	3200	J

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	D1167.D	Misc Info	543-C EAST WALL	Sample Weight	10.15 g
Operator	ROBERTS	Dilution factor	1	Percent Solids	79.7 %
Date Acquired	20-Nov-09	Sample Multiplier	0.124		
Sample Name	9044803	*Sample multiplier = (0.001*Dilution factor)/([sample weight(kg)]*[percent solids/100]*			
		Multiplied by 0.001 to convert ug/kg to mg/kg			

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL		Qualifiers
110-86-1	Pyridine			not detected	NLE	0.122	0.62	mg/kg	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.208	0.62	mg/kg	
62-53-3	Aniline			not detected	NLE	0.330	0.62	mg/kg	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.239	0.62	mg/kg	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.206	0.62	mg/kg	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.215	0.62	mg/kg	
100-51-6	Benzyl alcohol			not detected	NLE	0.319	0.62	mg/kg	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.240	0.62	mg/kg	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	0.277	0.62	mg/kg	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.313	0.62	mg/kg	
67-72-1	Hexachloroethane			not detected	10	0.234	0.62	mg/kg	
98-95-3	Nitrobenzene			not detected	10	0.279	0.62	mg/kg	
78-59-1	Isophorone			not detected	100	0.297	0.62	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.245	0.62	mg/kg	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.271	0.62	mg/kg	
91-20-3	Naphthalene			not detected	NLE	0.299	0.62	mg/kg	
106-47-8	4-Chloroaniline			not detected	NLE	0.457	0.62	mg/kg	
87-68-3	Hexachlorobutadiene			not detected	1	0.267	0.62	mg/kg	
91-57-6	2-Methylnaphthalene			not detected	NLE	0.321	0.62	mg/kg	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.180	1.24	mg/kg	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.310	0.62	mg/kg	
88-74-4	2-Nitroaniline			not detected	NLE	0.380	0.62	mg/kg	
131-11-3	Dimethylphthalate			not detected	7000	0.326	0.62	mg/kg	
208-96-8	Acenaphthylene			not detected	NLE	0.336	0.62	mg/kg	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.323	0.62	mg/kg	
99-09-2	3-Nitroaniline			not detected	NLE	0.273	0.62	mg/kg	
83-32-9	Acenaphthene			not detected	400	0.335	0.62	mg/kg	
132-64-9	Dibenzofuran			not detected	NLE	0.394	0.62	mg/kg	
121-14-2	2,4-Dinitrotoluene			not detected	10	0.323	0.62	mg/kg	
84-66-2	Diethylphthalate			not detected	5000	0.309	0.62	mg/kg	
86-73-7	Fluorene			not detected	300	0.350	0.62	mg/kg	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.344	0.62	mg/kg	
100-01-6	4-Nitroaniline			not detected	NLE	0.337	1.24	mg/kg	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.335	0.62	mg/kg	
103-33-3	Azobenzene			not detected	NLE	0.355	0.62	mg/kg	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.356	0.62	mg/kg	
118-74-1	Hexachlorobenzene			not detected	10	0.371	0.62	mg/kg	
85-01-8	Phenanthrene			not detected	NLE	0.367	0.62	mg/kg	
120-12-7	Anthracene			not detected	2000	0.370	0.62	mg/kg	
84-74-2	Di-n-butylphthalate			not detected	900	0.354	0.62	mg/kg	
206-44-0	Fluoranthene			not detected	300	0.367	0.62	mg/kg	

Semi-Volatile Analysis Report
Page 2

Data File Name	D1167.D	Misc Info	543-C EAST WALL	Sample Weight	10.15 g
Operator	ROBERTS	Dilution factor	1	Percent Solids	79.7 %
Date Acquired	20-Nov-09	Sample Multiplier	0.124		
Sample Name	9044803	*Sample multiplier = (0.001*Dilution factor)/([sample weight(kg)]*[percent solids/100]*			
		Multiplied by 0.001 to convert ug/kg to mg/kg			

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL		Qualifiers
92-87-5	Benzidine			not detected	50	0.333	0.62	mg/kg	
129-00-0	Pyrene			not detected	200	0.392	0.62	mg/kg	
85-68-7	Butylbenzylphthalate			not detected	100	0.325	0.62	mg/kg	
56-55-3	Benzo[a]anthracene			not detected	10	0.368	0.62	mg/kg	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.336	0.62	mg/kg	
218-01-9	Chrysene			not detected	20	0.347	0.62	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.391	0.62	mg/kg	
117-84-0	Di-n-octylphthalate			not detected	100	0.328	0.62	mg/kg	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.265	0.62	mg/kg	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.318	0.62	mg/kg	
50-32-8	Benzo[a]pyrene			not detected	20	0.284	0.62	mg/kg	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.241	0.62	mg/kg	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.225	0.62	mg/kg	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.229	0.62	mg/kg	

* 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
MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time
RL= Reporting Limit. The values between the MDL and RL are considered estimated.
J = Estimated concentration, value lies between RL and MDL

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SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **EAST WALL**

Lab Name: FMETL Lab Code 13461

Project: Case No.: 90448 Location: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9044803

Sample wt/vol: 10.15 (g/ml) G Lab File ID: D1167.D

Level: (low/med) LOW Date Received: 11/19/2009

% Moisture: 20.3 decanted: (Y/N) N Date Extracted: 11/19/2009

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/20/2009

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/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	extraction bi-product	7.10	10000	J
2. 000102-76-1	extraction bi-product	14.06	4900	JN

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	D1169.D	Misc Info	543-F DUPLICATE	Sample Weight	10.31 g
Operator	ROBERTS	Dilution factor	1	Percent Solids	82.3 %
Date Acquired	20-Nov-09	Sample Multiplier	0.118		
Sample Name	9044806	*Sample multiplier = (0.001*Dilution factor)/([sample weight(kg)]*[percent solids/100]*			
		Multiplied by 0.001 to convert ug/kg to mg/kg			

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL		Qualifiers
110-86-1	Pyridine			not detected	NLE	0.117	0.59	mg/kg	
62-75-9	N-nitroso-dimethylamine			not detected	20	0.198	0.59	mg/kg	
62-53-3	Aniline			not detected	NLE	0.315	0.59	mg/kg	
111-44-4	bis(2-Chloroethyl)ether			not detected	10	0.227	0.59	mg/kg	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.197	0.59	mg/kg	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.205	0.59	mg/kg	
100-51-6	Benzyl alcohol			not detected	NLE	0.304	0.59	mg/kg	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.229	0.59	mg/kg	
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	0.264	0.59	mg/kg	
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	0.298	0.59	mg/kg	
67-72-1	Hexachloroethane			not detected	10	0.223	0.59	mg/kg	
98-95-3	Nitrobenzene			not detected	10	0.266	0.59	mg/kg	
78-59-1	Isophorone			not detected	100	0.283	0.59	mg/kg	
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	0.233	0.59	mg/kg	
120-82-1	1,2,4-Trichlorobenzene			not detected	9	0.258	0.59	mg/kg	
91-20-3	Naphthalene	12.56	8020069	5.30 mg/kg	NLE	0.285	0.59	mg/kg	
106-47-8	4-Chloroaniline			not detected	NLE	0.436	0.59	mg/kg	
87-68-3	Hexachlorobutadiene			not detected	1	0.255	0.59	mg/kg	
91-57-6	2-Methylnaphthalene	14.02	37322581	34.69 mg/kg	NLE	0.306	0.59	mg/kg	E
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.172	1.18	mg/kg	
91-58-7	2-Chloronaphthalene			not detected	NLE	0.296	0.59	mg/kg	
88-74-4	2-Nitroaniline			not detected	NLE	0.362	0.59	mg/kg	
131-11-3	Dimethylphthalate			not detected	7000	0.311	0.59	mg/kg	
208-96-8	Acenaphthylene			not detected	NLE	0.321	0.59	mg/kg	
606-20-2	2,6-Dinitrotoluene			not detected	NLE	0.308	0.59	mg/kg	
99-09-2	3-Nitroaniline			not detected	NLE	0.260	0.59	mg/kg	
83-32-9	Acenaphthene			not detected	400	0.319	0.59	mg/kg	
132-64-9	Dibenzofuran			not detected	NLE	0.376	0.59	mg/kg	
121-14-2	2,4-Dinitrotoluene			not detected	10	0.308	0.59	mg/kg	
84-66-2	Diethylphthalate			not detected	5000	0.295	0.59	mg/kg	
86-73-7	Fluorene			not detected	300	0.334	0.59	mg/kg	
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	0.328	0.59	mg/kg	
100-01-6	4-Nitroaniline			not detected	NLE	0.322	1.18	mg/kg	
86-30-6	n-Nitrosodiphenylamine			not detected	20	0.319	0.59	mg/kg	
103-33-3	Azobenzene			not detected	NLE	0.338	0.59	mg/kg	
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	0.339	0.59	mg/kg	
118-74-1	Hexachlorobenzene			not detected	10	0.354	0.59	mg/kg	
85-01-8	Phenanthrene	19.36	15701873	10.44 mg/kg	NLE	0.350	0.59	mg/kg	
120-12-7	Anthracene			not detected	2000	0.352	0.59	mg/kg	
84-74-2	Di-n-butylphthalate			not detected	900	0.337	0.59	mg/kg	
206-44-0	Fluoranthene	21.78	910718	0.57 mg/kg	300	0.350	0.59	mg/kg	J

Semi-Volatile Analysis Report
Page 2

Data File Name	**D1169.D**	Misc Info	**543-F DUPLICATE**	Sample Weight	**10.31 g**
Operator	**ROBERTS**	Dilution factor	**1**	Percent Solids	**82.3 %**
Date Acquired	**20-Nov-09**	Sample Multiplier	**0.118**		
Sample Name	**9044806**	*Sample multiplier = (0.001*Dilution factor)/([sample weight(kg)]*[percent solids/100]*			
		Multiplied by 0.001 to convert ug/kg to mg/kg			

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL		Qualifiers
92-87-5	Benzidine			not detected	50	0.317	0.59	mg/kg	
129-00-0	Pyrene	22.24	1906581	1.15 mg/kg	200	0.374	0.59	mg/kg	.
85-68-7	Butylbenzylphthalate			not detected	100	0.310	0.59	mg/kg	
56-55-3	Benzo[a]anthracene			not detected	10	0.351	0.59	mg/kg	
91-94-1	3,3'-Dichlorobenzidine			not detected	60	0.321	0.59	mg/kg	
218-01-9	Chrysene			not detected	20	0.331	0.59	mg/kg	
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	0.372	0.59	mg/kg	
117-84-0	Di-n-octylphthalate			not detected	100	0.312	0.59	mg/kg	
205-99-2	Benzo[b]fluoranthene			not detected	10	0.252	0.59	mg/kg	
207-08-9	Benzo[k]fluoranthene			not detected	2	0.303	0.59	mg/kg	
50-32-8	Benzo[a]pyrene			not detected	20	0.271	0.59	mg/kg	
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	0.230	0.59	mg/kg	
53-70-3	Dibenz[a,h]anthracene			not detected	20	0.214	0.59	mg/kg	
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	0.218	0.59	mg/kg	

* 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
MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time
RL= Reporting Limit. The values between the MDL and RL are considered estimated.
J = Estimated concentration, value lies between RL and MDL

Semi-Volatile Analysis Report

U.S. Army, Fort Monmouth Environmental Laboratory

NJDEP Certification #13461

Data File Name	D1174.D	Misc Info	543-F DUPLICATE	Sample Weight	10.31 g
Operator	ROBERTS	Dilution factor	5	Percent Solids	82.3 %
Date Acquired	20-Nov-09	Sample Multiplier	0.589		
Sample Name	9044806 5x	*Sample multiplier = (0.001*Dilution factor)/([sample weight(kg)]*[percent solids/100]*			
		Multiplied by 0.001 to convert ug/kg to mg/kg			

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL		Qualifiers	
110-86-1	Pyridine			not detected	NLE	0.583	2.95	mg/kg		
62-75-9	N-nitroso-dimethylamine			not detected	20	0.990	2.95	mg/kg		
62-53-3	Aniline			not detected	NLE	1.573	2.95	mg/kg		
111-44-4	bis(2-Chloroethyl)ether			not detected	10	1.137	2.95	mg/kg		
541-73-1	1,3-Dichlorobenzene			not detected	600	0.984	2.95	mg/kg		
106-46-7	1,4-Dichlorobenzene			not detected	75	1.025	2.95	mg/kg		
100-51-6	Benzyl alcohol			not detected	NLE	1.520	2.95	mg/kg		
95-50-1	1,2-Dichlorobenzene			not detected	600	1.143	2.95	mg/kg		
39638-32-9	bis(2-chloroisopropyl)ether			not detected	300	1.320	2.95	mg/kg		
621-64-7	n-Nitroso-di-n-propylamine			not detected	20	1.491	2.95	mg/kg		
67-72-1	Hexachloroethane			not detected	10	1.114	2.95	mg/kg		
98-95-3	Nitrobenzene			not detected	10	1.332	2.95	mg/kg		
78-59-1	Isophorone			not detected	100	1.414	2.95	mg/kg		
111-91-1	bis(2-Chloroethoxy)methane			not detected	NLE	1.167	2.95	mg/kg		
120-82-1	1,2,4-Trichlorobenzene			not detected	9	1.290	2.95	mg/kg		
91-20-3	Naphthalene	12.54	1629332	5.30 mg/kg	NLE	1.426	2.95	mg/kg	D	
106-47-8	4-Chloroaniline			not detected	NLE	2.180	2.95	mg/kg		
87-68-3	Hexachlorobutadiene			not detected	1	1.273	2.95	mg/kg		
91-57-6	2-Methylnaphthalene	13.96	10052081	45.92 mg/kg	NLE	1.532	2.95	mg/kg	D	
77-47-4	Hexachlorocyclopentadiene			not detected	50	0.860	5.89	mg/kg		
91-58-7	2-Chloronaphthalene			not detected	NLE	1.479	2.95	mg/kg		
88-74-4	2-Nitroaniline			not detected	NLE	1.809	2.95	mg/kg		
131-11-3	Dimethylphthalate			not detected	7000	1.556	2.95	mg/kg		
208-96-8	Acenaphthylene			not detected	NLE	1.603	2.95	mg/kg		
606-20-2	2,6-Dinitrotoluene			not detected	NLE	1.538	2.95	mg/kg		
99-09-2	3-Nitroaniline			not detected	NLE	1.302	2.95	mg/kg		
83-32-9	Acenaphthene			not detected	400	1.597	2.95	mg/kg		
132-64-9	Dibenzofuran			not detected	NLE	1.880	2.95	mg/kg		
121-14-2	2,4-Dinitrotoluene			not detected	10	1.538	2.95	mg/kg		
84-66-2	Diethylphthalate			not detected	5000	1.473	2.95	mg/kg		
86-73-7	Fluorene			not detected	300	1.668	2.95	mg/kg		
7005-72-3	4-Chlorophenyl-phenylether			not detected	NLE	1.638	2.95	mg/kg		
100-01-6	4-Nitroaniline			not detected	NLE	1.609	5.89	mg/kg		
86-30-6	n-Nitrosodiphenylamine			not detected	20	1.597	2.95	mg/kg		
103-33-3	Azobenzene			not detected	NLE	1.691	2.95	mg/kg		
101-55-3	4-Bromophenyl-phenylether			not detected	NLE	1.697	2.95	mg/kg		
118-74-1	Hexachlorobenzene			not detected	10	1.768	2.95	mg/kg		
85-01-8	Phenanthrene	19.24	4963786	14.91 mg/kg	NLE	1.750	2.95	mg/kg	D	
120-12-7	Anthracene			not detected	2000	1.762	2.95	mg/kg		
84-74-2	Di-n-butylphthalate			not detected	900	1.685	2.95	mg/kg		
206-44-0	Fluoranthene	21.69	189791	0.53 mg/kg	300	1.750	2.95	mg/kg	D	J

Semi-Volatile Analysis Report
Page 2

Data File Name	**D1174.D**	Misc Info	**543-F DUPLICATE**	Sample Weight	**10.31 g**
Operator	**ROBERTS**	Dilution factor	**5**	Percent Solids	**82.3 %**
Date Acquired	**20-Nov-09**	Sample Multiplier	**0.589**		
Sample Name	**9044806 5x**	*Sample multiplier = (0.001*Dilution factor)/([sample weight(kg)]*[percent solids/100]*			
		Multiplied by 0.001 to convert ug/kg to mg/kg			

CAS#	Name	R.T.	Response	Result	Regulatory Level (ug/L)*	MDL	RL		Qualifiers	
92-87-5	Benzidine			not detected	50	1.585	2.95	mg/kg		
129-00-0	Pyrene	22.16	340439	0.95 mg/kg	200	1.868	2.95	mg/kg	D	J
85-68-7	Butylbenzylphthalate			not detected	100	1.550	2.95	mg/kg		
56-55-3	Benzo[a]anthracene			not detected	10	1.756	2.95	mg/kg		
91-94-1	3,3'-Dichlorobenzidine			not detected	60	1.603	2.95	mg/kg		
218-01-9	Chrysene			not detected	20	1.656	2.95	mg/kg		
117-81-7	bis(2-Ethylhexyl)phthalate			not detected	30	1.862	2.95	mg/kg		
117-84-0	Di-n-octylphthalate			not detected	100	1.562	2.95	mg/kg		
205-99-2	Benzo[b]fluoranthene			not detected	10	1.261	2.95	mg/kg		
207-08-9	Benzo[k]fluoranthene			not detected	2	1.514	2.95	mg/kg		
50-32-8	Benzo[a]pyrene			not detected	20	1.355	2.95	mg/kg		
193-39-5	Indeno[1,2,3-cd]pyrene			not detected	20	1.149	2.95	mg/kg		
53-70-3	Dibenz[a,h]anthracene			not detected	20	1.072	2.95	mg/kg		
191-24-2	Benzo[g,h,i]perylene			not detected	NLE	1.090	2.95	mg/kg		

* 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
MDL= Method Detection Limit
NLE= No Limit Established
R.T.=Retention Time
RL= Reporting Limit. The values between the MDL and RL are considered estimated.
J = Estimated concentration, value lies between RL and MDL

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Field Id: **DUPLICATE**

Lab Name: FMETL Lab Code 13461

Project: Case No.: 90448 Location: SDG No.:

Matrix: (soil/water) SOIL Lab Sample ID: 9044806

Sample wt/vol: 10.31 (g/ml) G Lab File ID: D1169.D

Level: (low/med) LOW Date Received: 11/19/2009

% Moisture: 17.7 decanted: (Y/N) N Date Extracted: 11/19/2009

Concentrated Extract Volume: 1000 (uL) Date Analyzed: 11/20/2009

Injection Volume: 1.0 (uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH:

Number TICs found: 21 CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	xylene	8.07	750	J
2.	Alkane: Cyclic	8.35	620	J
3.	C3 alkyl benzene	8.55	580	J
4.	Alkane: Cyclic	8.69	2000	J
5.	C3 alkyl benzene	9.43	570	J
6.	unknown hydrocarbon	9.57	1700	J
7.	C3 alkyl benzene	9.68	5200	J
8.	C4 alkyl benzene	10.13	1400	J
9.	Alkane: Cyclic	10.29	4500	J
10.	C4 alkyl benzene	10.47	1400	J
11.	Alkane: Branched	10.53	4900	J
12.	C4 alkyl benzene	10.60	7600	J
13.	Alkane: Branched	10.76	5100	J
14.	C5 alkyl benzene	11.26	10000	J
15.	Alkane: Branched	11.38	9700	J
16.	Alkane: Cyclic	11.77	15000	J
17.	C4 alkyl benzene	12.01	24000	J
18.	Alkane: Branched	12.13	13000	J
19.	C5 alkyl benzene	12.26	4700	J
20.	unknown hydrocarbon	24.30	1000	J
21.	unknown hydrocarbon	24.98	2800	J

TPHC

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	**Project #:** **Location:** **ECP:** **Work Order:**	10-11823 BLDG. 523
Analysis:	OQA-QAM-025	**Date Received:**	17-Nov-09
Matrix:	Soil	**Date Extracted:**	18-Oct-09
Inst. ID:	GC TPHC INST. #1	**Extraction Method:**	Shake
Column Type:	RTX-5, 0.32mm ID, 30 m	**Analysis Complete:**	19-Nov-09
Injection Volume:	1 uL	**Analyst:**	Robert Szot
Blank Conc.:	0.00		

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data Qualifiers	
MB11180901	MB11180901	1.00	15.00	100.00	23	333	0.00		
LCS11180901	LCS11180901	1.00	15.00	100.00	23	333	1019.89		
9044801	543-A NORTH WALL	1.00	14.19	78.4	31	449	8205.40		
9044802	543-B SOUTH WALL	1.00	15.40	80.2	28	405	1428.60		
9044803	543-C EAST WALL	1.00	15.24	79.7	29	412	1403.11		
9044804	543-D WEST WALL	1.00	15.98	81.7	27	383	0.00		
9044805	543-E BOTTOM	1.00	15.34	80.7	28	404	0.00		
9044806	543-F DUPLICATE	1.00	14.73	82.3	29	412	10624.20		E
9044806	543-F DUPLICATE	2.00	14.73	82.3	58	825	9744.64		D

Qualifiers:

MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution

000070

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature Jean Tardiff

Date: 1/7/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff 1/7/12

Dean Tardiff
Laboratory Manager

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

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: 10-11823

Bldg. 539/Parcel 76

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
539-A/Bottom	9047101	Soil	04-Dec-09 10:00	12/04/09
539-B/East Wall	9047102	Soil	04-Dec-09 10:30	12/04/09
539-C/South Wall	9047103	Soil	04-Dec-09 11:00	12/04/09
539-D/North Wall	9047104	Soil	04-Dec-09 14:30	12/04/09
539-Duplicate	9047105	Soil	04-Dec-09 11:00	12/04/09

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, %SOLIDS

Dean Tardiff/Date: 2/3/10
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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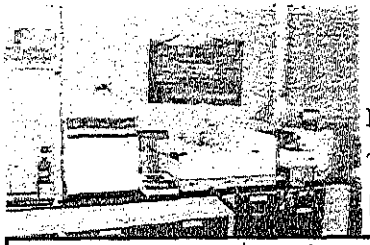
CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:jacqueline.hamer@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: CHUCK APPLEBY
Phone #: X 26292
( )DERA ( )OMA (X)Other: BRAC
Project No: 10-11823
Location: PARCEL 76 BLDG. 539
Samplers Name / Company: FRANK ACCORSI / TVS

LIMS/Work Order #	Sample Location	Date	Time	Sample Type	# bottles	TPH	% SOLID					FID (ppm)	DEPTH (FT)	Remarks / Preservation Method
09471 01	539A-BOTTOM	12-4-09	1000	SOIL	1	X	X					0	9-9.5	ICE
02	539B-EAST WALL		1030			X	X					0	7.5-8	
03	539C-SOUTH WALL		1100			X	X					0	7.5-8	
04	539D-NORTH WALL		1430			X	X				18	~~0.4~~ 18	7.5-8	
05	539-DUPLICATE		1100			X	X				0.4	~~18~~ 0.4	7.5-8	

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Frank Accorsi	12-4-09 1515				

Report Type: ( )Full, (X)Reduced, ( )Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: ( )Standard 3 wks, (X)Rush ~~7 Wk.~~ 7 DAYS, ( )ASAP Verbal ___ Hrs.

Comments:

print legibly

000002

SAMPLE RECEIPT FORM

Date Received: 12-3-09 Work Order ID#: 9044

Site/Proj. Name: Angel Isle Cooler Temp (°C): 4.0 cor

Received By: J. Verduzco Sign: J. Verduzco
(Print name)

Check the appropriate box

1. Did the samples come in a cooler? ☑ yes ☐ no ☐ n/a
2. Were samples rec'd in good condition? ☑ yes ☐ no
3. Was the chain of custody filled out correctly and legibly? ☑ yes ☐ no
4. Was the chain of custody signed in the appropriate place? ☑ yes ☐ no
5. Did the labels agree with the chain of custody? ☑ yes ☐ no
6. Were the correct containers/preservatives used? ☑ yes ☐ no
7. Was a sufficient amount of sample supplied? ☑ yes ☐ no
8. Were air bubbles present in VOA vials? ☐ yes ☐ no ☑ n/a
9. Were samples received on ice? ☑ yes ☐ no
10. Were analyze-immediately tests perform within 15 minutes ☐ yes ☐ no ☑ n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

GPS
POINTS

U.S. ARMY - FT. MONMOUTH, NJ

(former)BUILDING 539 - (1,000 G. UST)

SOIL SAMPLING GPS POSITIONS & COORDINATES

US STATE PLANE 1983, NJ (NY EAST) 2900, NAD 1983 (CONUS)

(IN US SURVEY FEET)

SAMPLE POINTS

POSITION/DESCRIPTION	Y COORDINATE (NORTHING)	X COORDINATE (EASTING)
539A -NORTH WALL	541223.244	620038.383
539B -SOUTH WALL	541195.204	620049.158
539C- EAST WALL	541216.793	620060.172
539D-WEST WALL	541205.464	620028.486
539E- BOTTOM 1	541211.393	620051.387
539E- BOTTOM 2	541204.113	620038.068

FIELD DUPLICATE

Field Duplicate Identification

Lab ID: 90471

Site: Bldg. 539

The Field Duplicate was performed on 539-C/South Wall (9047103)

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

TPHC CONFORMANCE/NON–CONFORMANCE SUMMARY REPORT

		Indicate Yes, No, N/A
1.	Method Detection Limits Provided	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range)	Yes
4.	Duplicate Results Summary Meet Criteria	Yes
5.	IR Spectra submitted for standards, blanks and samples	NA
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted	Yes
7.	Analysis holding time met (If not met, list number of days exceeded for each sample)	Yes

Additional comments: _____

Laboratory Manager: Dean Tudor Date: 2/3/10

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 90471 **Site:** Bldg. 539

	Date	Hold Time
Date Sampled	12/04/09	NA
Receipt/Refrigeration	12/04/09	NA
Analyses		
1. TPCH	12/08/09	14 Days

TPHC
(SOILS)

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	**Project #:** **Location:** **ECP:** **Work Order:**	10-11823 PARCEL 76
Analysis:	OQA-QAM-025	**Date Received:**	4-Dec-09
Matrix:	Soil	**Date Extracted:**	7-Dec-09
Inst. ID:	GC TPHC INST. #1	**Extraction Method:**	Shake
Column Type:	RTX-5, 0.32mm ID, 30 m	**Analysis Complete:**	8-Dec-09
Injection Volume:	1 uL	**Analyst:**	Robert Szot
Blank Conc.:	0.00		

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data Qualifiers	
MB12070901	MB12070901	1.00	15.02	100.00	23	333	0.00		
LCS12070901	LCS12070901	1.00	15.07	100.00	23	332	821.96		
9047101	539A-BOTTOM	1.00	15.06	74.6	31	445	0.00		
9047102	539B-EAST WALL	1.00	15.01	77.0	30	433	0.00		
9047103	539C-SOUTH WALL	1.00	15.17	76.1	30	433	0.00		
9047104	539D-NORTH WALL	1.00	15.04	80.0	29	416	291.98		J
9047105	539 DUPLICATE	1.00	15.14	76.7	30	431	0.00		

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution

000015

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

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1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature Sean Tandy

Date: 2/3/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff
Laboratory Manager

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

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: 10-11823

Bldg. 539/Parcel 76

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
539-E/West Wall	9048201	Soil	15-Dec-09 13:20	12/15/09
539-F/Bottom	9048202	Soil	15-Dec-09 13:40	12/15/09
539-Duplicate	9048203	Soil	15-Dec-09 13:20	12/15/09

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, %SOLIDS

Dean Tardiff 2/3/10
Dean Tardiff/Date:
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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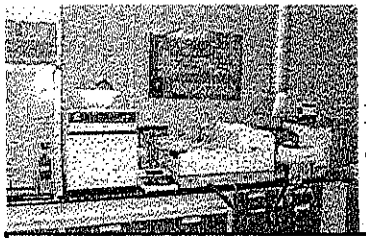
CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:appleby@mail1.monmouth.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: CHUCK APPLEBY
Phone #: X26292
( )DERA ( )OMA (X)Other: BRAC

Project No: 10-11823
Location: PARCEL 76
BLDG. 539

Samplers Name / Company : FRANK ACCORSI / TVS

Lab Sample I.D.	Sample Location	Date	Time	Sample Type	# bottles	TPH	% Solids					Fir (ppm)	Depth (ft)	Remarks / Preservation Method
90452 Q1	539-E, WEST WALL	12-15-09	1320	SOIL	1	X	X					1	7,5-8	ICE
Q2	539-F, BOTTOM		1340			X	X					0	9,5-10	
Q3	539-DUPLICATE		1320			X	X					1	7,5-8	

Analysis Parameters

Comments:

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Frank Accorsi	12-15-09 1445				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, (X)Reduced, ( )Standard, ( )Screen / non-certified
Turnaround time: ( )Standard 4 wks, (X)Rush 3 Days, ( )ASAP Verbal ___ Hrs.

Remarks:

200002

SAMPLE RECEIPT FORM

Date Received: 12-15-04 Lab Project ID#: 90482

Site/Project Name: Bldg 334 Cooler Temp (deg. C): 4.0°C

Received By: S. Verduzco Sign: [signature]
(print name)

Check the appropriate answer

1. Did the samples come in a cooler?	☑ yes	☐ no	☐ NA
2. Were the chain of custody papers filled out correctly and legibly?	☑ yes	☐ no	
3. Did you sign the chain of custody in the appropriate place?	☑ yes	☐ no	
4. Did all the labels agree with the chain of custody and in good condition?	☑ yes	☐ no	
5. Were the correct containers and/or preservatives used for the tests indicated?	☑ yes	☐ no	
6. Was a sufficient amount of sample sent for the tests indicated?	☑ yes	☐ no	
7. Were bubbles absent from aqueous VOC sample containers?	☐ yes	☐ no	☑ NA

Fill out the following table for each sample bottle

Sample ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

GPS POINTS

U.S. ARMY - FT. MONMOUTH, NJ

(former)BUILDING 539 - (1,000 G. UST)

SOIL SAMPLING GPS POSITIONS & COORDINATES

US STATE PLANE 1983, NJ (NY EAST) 2900, NAD 1983 (CONUS)

(IN US SURVEY FEET)

SAMPLE POINTS

POSITION/DESCRIPTION	Y COORDINATE (NORTHING)	X COORDINATE (EASTING)
539A -NORTH WALL	541223.244	620038.383
539B -SOUTH WALL	541195.204	620049.158
539C- EAST WALL	541216.793	620060.172
539D-WEST WALL	541205.464	620028.486
539E- BOTTOM 1	541211.393	620051.387
539E- BOTTOM 2	541204.113	620038.068

FIELD DUPLICATE

Field Duplicate Identification

Lab ID: 90482

Site: Bldg. 539

The Field Duplicate was performed on 539-E/West Wall (9048201)

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

9048L TPHC

TPHC Conformance/Non-conformance Summary Report

		Indicate Yes, No, N/A
1.	Method Detection Limits provided.	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank. _____ _____	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range). _____ _____	Yes
4.	Duplicate Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range). _____ _____	Yes
5.	IR Spectra submitted for standards, blanks and samples.	N/A
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted.	Yes
7.	Analysis holding time met. (If not met, list number of days exceeded for each sample). _____ _____	Yes

Additional comments: _____
_____
_____

Dean Tanaka — Laboratory Manager

2/3/10 — Date

12/19/09

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 90471 **Site:** Bldg. 539

	Date	Hold Time
Date Sampled	12/04/09	NA
Receipt/Refrigeration	12/04/09	NA
Analyses		
1. TPHC	12/08/09	14 Days

TPHC
(SOILS)

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	**Project #:** **Location:** **ECP:** **Work Order:**	10-11823 PARCEL 76
Analysis:	OQA-QAM-025	**Date Received:**	4-Dec-09
Matrix:	Soil	**Date Extracted:**	7-Dec-09
Inst. ID:	GC TPHC INST. #1	**Extraction Method:**	Shake
Column Type:	RTX-5, 0.32mm ID, 30 m	**Analysis Complete:**	8-Dec-09
Injection Volume:	1 uL	**Analyst:**	Robert Szot
Blank Conc.:	0.00		

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data Qualifiers	
MB12070901	MB12070901	1.00	15.02	100.00	23	333	0.00		
LCS12070901	LCS12070901	1.00	15.07	100.00	23	332	821.96		
9047101	539A-BOTTOM	1.00	15.06	74.6	31	445	0.00		
9047102	539B-EAST WALL	1.00	15.01	77.0	30	433	0.00		
9047103	539C-SOUTH WALL	1.00	15.17	76.1	30	433	0.00		
9047104	539D-NORTH WALL	1.00	15.04	80.0	29	416	291.98		J
9047105	539 DUPLICATE	1.00	15.14	76.7	30	431	0.00		

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution

000045

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature Dean Tarduff

Date: 2/3/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

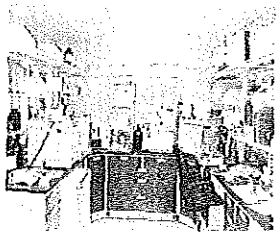
Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff
Laboratory Manager

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



ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: 10-11823

Parcel 76/Bldg. 538

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
538-A/Bottom	1000301	Soil	05-Jan-10 13:40	01/05/10
538-B/North Wall	1000302	Soil	05-Jan-10 13:15	01/05/10
538-C/East Wall	1000303	Soil	05-Jan-10 15:00	01/05/10
538-Duplicate	1000304	Soil	05-Jan-10 13:15	01/05/10

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB.
TPHC, %SOLIDS

ACCUTEST LABORATORIES
BN+15, %SOLIDS

Dean Tardiff 2/1/10
Dean Tardiff/Date:
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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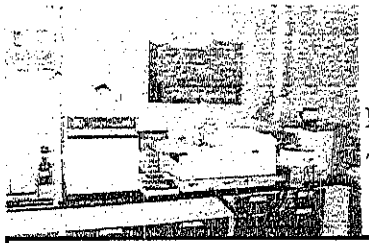
CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:jacqueline.hamer@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: CHUCK APPLEBY | Project No: 10-11823
Phone #: X 26292 | Location: PARCEL 76 BLOC. 538
( )DERA ( )OMA (X)Other: BRAC
Samplers Name / Company: FRANK ACCORSI / IT VS

LIMS/Work Order #	Sample Location	Date	Time	Sample Type	# bottles	TPH	TCLP VOCs					FID (ppm)	DEPTH (FT)	Remarks / Preservation Method
10 003 01	538-A, BOTTOM	1-5-10	1340	SOIL	1	X	X					1	7.5-8	ICE
02	538-B, NORTH WALL		1315		1	X	X					2	7-7.5	
03	535-C, EAST WALL		1500		1	X	X					55	6-6.5	
04	538- DUPLICATE		1315		1	X	X					1	7-7.5	

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Frank Accorsi	1-5-10 1550				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, (X)Reduced, ( )Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: ( )Standard 3 wks, (X)Rush 3 DAYS ~~Wk.~~, ( )ASAP Verbal ___Hrs.

Comments:

print legibly

Page 1 of 1

new coc. 1.XLS10/9/2009

000003

SAMPLE RECEIPT FORM

Date Received: 01-05-10 Work Order ID#: 10013

Site/Proj. Name: Bldg 538/UST Cooler Temp (°C): 3.0

Received By: J. Vergara Sign: J. Vergara
(Print name)

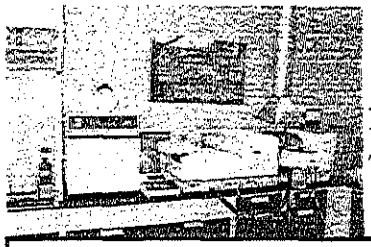
Check the appropriate box

1. Did the samples come in a cooler? ☑ yes ☐ no ☐ n/a
2. Were samples rec'd in good condition? ☑ yes ☐ no
3. Was the chain of custody filled out correctly and legibly? ☑ yes ☐ no
4. Was the chain of custody signed in the appropriate place? ☑ yes ☐ no
5. Did the labels agree with the chain of custody? ☑ yes ☐ no
6. Were the correct containers/preservatives used? ☑ yes ☐ no
7. Was a sufficient amount of sample supplied? ☑ yes ☐ no
8. Were air bubbles present in VOA vials? ☐ yes ☐ no ☑ n/a
9. Were samples received on ice? ☑ yes ☐ no
10. Were analyze-immediately tests perform within 15 minutes ☐ yes ☐ no ☑ n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:Dean Tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Dean Tardiff	Project No:	Analysis Parameters								Comments:
Phone #: (732)532-4359	Location: Parcel 76/Bldg. 538									P.O. # C09-20650
( )DERA ( )OMA ( )Other:_____		BN+15	SIMS							
Samplers Name / Company:										

Work Order #	Sample Location	Date	Time	Sample Type	# bottles	BN+15	SIMS							Remarks / Preservation Method
1000303	538-C East Wall	1/5/2010	15:00	Soil	1	X	X							

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
[signature]	1-11-10 915	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, (X)Reduced, ( )Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: ( )Standard 3 wks, (X)Rush Wk., _( )ASAP Verbal ____Hrs.

Comments: **3 DAY TAT**

No Seal

print legibly

Page ____ of ____

10003. OUT COC_1.xls1/11/2010

000004

GPS POINTS

U.S. ARMY - FT. MONMOUTH, NJ

(former)BUILDING 538 - (1,000 G. UST)

SOIL SAMPLING GPS POSITIONS & COORDINATES

US STATE PLANE 1983, NJ (NY EAST) 2900, NAD 1983 (CONUS)

(IN US SURVEY FEET)

SAMPLE POINTS

POSITION/DESCRIPTION	Y COORDINATE (NORTHING)	X COORDINATE (EASTING)
538A BOTTOM	541266.714	620213.306
538B NORTH WALL	541276.163	620211.728
538C EAST WALL	541272.058	620231.932
538D WEST WALL	541261.611	620197.264
538E EAST WALL PIPE NORTH	541274.844	620229.777
538F EAST WALL PIPE SOUTH	541265.898	620231.095
538G SOUTH WALL PIPE EAST	541257.853	620225.483
538H SOUTH WALL PIPE MIDDLE	541255.773	620216.717
538I SOUTH WALL PIPE WEST	541254.562	620208.443

FIELD DUPLICATE

Field Duplicate Identification

Lab ID: 10003 Site: Bldg. 538

The Field Duplicate was performed on 538-B/North Wall (1000302)

METHOD SUMMARY

Method Summary

EPA SW-846 Method 8270
Gas Chromatographic Determination of Semi-volatiles in Soil

Surrogates are added to a 10-gram soil sample that has been dried with sodium sulfate. The sample is then extracted using a soxtherm extractor. The extract is concentrated to 1 ml. Internal standards are added and the sample is injected into a GC/MS system. Semi-volatiles are identified and quantitated. The final concentration is calculated using soil weight, percent moisture and concentration.

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

ACCUTEST Laboratories

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Fort Monmouth Environmental Testing Lab.	**Job No**	JA37203
Site:	Parcel 76/Building 538	**Report Date**	1/26/2010 11:58:44 AM

On 01/11/2010, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 3.2 C. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of JA37203 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Extractables by GCMS By Method SW846 8270C

Matrix: SO **Batch ID:** OP41765

- All samples were extracted within the recommended method holding time.
- Sample(s) JA37204-4MS, JA37204-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 2,4-Dinitrotoluene, 2-Chloronaphthalene, 2-Nitroaniline, 4-Bromophenyl phenyl ether, Atrazine, Caprolactam, Fluorene, N-Nitrosodiphenylamine, Naphthalene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2-Chloronaphthalene, 2-Nitroaniline, 4-Bromophenyl phenyl ether, 4-Chloroaniline, Atrazine, Naphthalene, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Recovery(s) for 2-Methylnaphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 4-Chlorophenyl phenyl ether, Dibenzofuran, Diethyl phthalate, Dimethyl phthalate, Fluorene, N-Nitrosodiphenylamine are outside control limits for sample OP41765-MSD. Probable cause due to sample homogeneity.
- Sample(s) OP41765-MS, OP41765-MSD have surrogates outside control limits. Probable cause due to matrix interference.
- OP41765-MSD for Nitrobenzene-d5: Outside control limits due to matrix interference.
- OP41765-MS for Nitrobenzene-d5: Outside control limits due to matrix interference.
- OP41765-MSD for 4-Chlorophenyl phenyl ether: Outside control limits due to matrix interference.
- OP41765-MSD for Dibenzofuran: Outside control limits due to matrix interference.
- OP41765-MSD for Diethyl phthalate: Outside control limits due to matrix interference.
- OP41765-MSD for Dimethyl phthalate: Outside control limits due to matrix interference.
- OP41765-MSD for Fluorene: Outside control limits due to matrix interference.
- OP41765-MSD for N-Nitrosodiphenylamine: Outside control limits due to matrix interference.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix: SO	Batch ID: OP41765A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA37204-4MS, JA37204-4MSD were used as the QC samples indicated.
- Blank Spike Recovery(s) for Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene are outside control limits.
- Matrix Spike Recovery(s) for Phenanthrene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Duplicate Recovery(s) for Acenaphthene, Naphthalene, Pyrene are outside control limits. Probable cause due to matrix interference.
- OP41765A-BS12 for Indeno(1,2,3-cd)pyrene: Outside of in house control limits.
- OP41765A-BS12 for Dibenzo(a,h)anthracene: Outside of in house control limits.
- OP41765A-MS for Naphthalene: Outside control limits due to matrix interference.

Wet Chemistry By Method SM18 2540G

Matrix: SO	Batch ID: GN33875

- The data for SM18 2540G meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

10 003 TPHc

TPHC CONFORMANCE/NON–CONFORMANCE SUMMARY REPORT

		Indicate Yes, No, N/A
1.	Method Detection Limits Provided	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range)	Yes
4.	Duplicate Results Summary Meet Criteria	Yes
5.	IR Spectra submitted for standards, blanks and samples	N/A
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted	Yes
7.	Analysis holding time met (If not met, list number of days exceeded for each sample)	Yes

Additional comments: _____

Laboratory Manager: _____ Date: _____

1/7/10

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 10003 **Site:** Bldg. 538

	Date	Hold Time
Date Sampled	01/05/10	NA
Receipt/Refrigeration	01/05/10	NA

Analyses

1. Semi Volatiles	01/13,14/10	14 Days
2. TPHC	01/07/10	14 Days

SEMI-VOLATILE ORGANICS

Accutest Laboratories

Report of Analysis

Client Sample ID:	1000303 538-C EAST WALL		
Lab Sample ID:	JA37203-1	Date Sampled:	01/05/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	77.7
Project:	Parcel 76/Building 538		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M16672.D	1	01/13/10	KLS	01/12/10	OP41765	E3M731
Run #2							

	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

BN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
208-96-8	Acenaphthylene	ND	37	12	ug/kg	
98-86-2	Acetophenone	ND	180	6.5	ug/kg	
120-12-7	Anthracene	ND	37	13	ug/kg	
1912-24-9	Atrazine	ND	180	7.2	ug/kg	
56-55-3	Benzo(a)anthracene	ND	37	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	37	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	37	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	37	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	37	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	74	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	74	21	ug/kg	
92-52-4	1,1'-Biphenyl	ND	74	4.3	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.5	ug/kg	
91-58-7	2-Chloronaphthalene	ND	74	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	12	ug/kg	
86-74-8	Carbazole	ND	74	17	ug/kg	
105-60-2	Caprolactam	ND	74	12	ug/kg	
218-01-9	Chrysene	ND	37	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	74	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	74	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	74	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	74	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	74	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	74	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	9.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	37	13	ug/kg	
132-64-9	Dibenzofuran	118	74	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	74	8.2	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	74	18	ug/kg	
84-66-2	Diethyl phthalate	ND	74	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	74	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	74	32	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1000303 538-C EAST WALL		
Lab Sample ID:	JA37203-1	Date Sampled:	01/05/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	77.7
Project:	Parcel 76/Building 538		

BN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
86-73-7	Fluorene	487	37	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	74	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	37	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	740	38	ug/kg	
67-72-1	Hexachloroethane	ND	180	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	37	13	ug/kg	
78-59-1	Isophorone	ND	74	9.9	ug/kg	
91-57-6	2-Methylnaphthalene	ND	74	21	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	15	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	ND	37	10	ug/kg	
98-95-3	Nitrobenzene	ND	74	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	74	9.0	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	22	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	61%		28-113%
321-60-8	2-Fluorobiphenyl	80%		38-107%
1718-51-0	Terphenyl-d14	89%		31-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	6.19	5500	ug/kg	J
	1H-Indene-dihydro-trimethyl	6.46	2800	ug/kg	J
	unknown	6.69	3200	ug/kg	J
	cycloalkane/alkene	6.86	2300	ug/kg	J
	unknown	7.64	4700	ug/kg	J
	alkane	7.88	8100	ug/kg	J
	unknown	7.95	2300	ug/kg	J
	alkane	8.02	2500	ug/kg	J
	Naphthalene trimethyl	8.68	4600	ug/kg	J
	unknown	9.08	2800	ug/kg	J
	alkane	9.36	8400	ug/kg	J
	alkane	9.80	19000	ug/kg	J
	Dimethylbiphenyl	9.93	4200	ug/kg	J
	alkane	11.07	2600	ug/kg	J
	unknown	11.98	2300	ug/kg	J
	Total TIC, Semi-Volatile		75300	ug/kg	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

000018

Raw Data: 4M14660.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	1000303 538-C EAST WALL		
Lab Sample ID:	JA37203-1	Date Sampled:	01/05/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C BY SIM SW846 3550B	Percent Solids:	77.7
Project:	Parcel 76/Building 538		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M14660.D	1	01/14/10	KLS	01/12/10	OP41765A	E4M662
Run #2							

	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	124	3.7	0.50	ug/kg	
208-96-8	Acenaphthylene	ND	3.7	1.1	ug/kg	
120-12-7	Anthracene	51.3	3.7	0.38	ug/kg	
56-55-3	Benzo(a)anthracene	10.1	3.7	0.49	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3.7	0.55	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3.7	1.8	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.7	1.4	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.7	0.88	ug/kg	
218-01-9	Chrysene	10.0	3.7	0.50	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.7	1.1	ug/kg	
206-44-0	Fluoranthene	24.3	3.7	0.36	ug/kg	
118-74-1	Hexachlorobenzene	ND	3.7	0.55	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.7	1.5	ug/kg	
91-20-3	Naphthalene	ND	3.7	0.84	ug/kg	
85-01-8	Phenanthrene	167	3.7	0.57	ug/kg	
129-00-0	Pyrene	117	3.7	0.42	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	47%		17-113%
321-60-8	2-Fluorobiphenyl	56%		21-100%
1718-51-0	Terphenyl-d14	57%		15-111%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

000019

TPHC

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	**Project #:** **Location:** **ECP:** **Work Order:**	10-11823 PARCEL 76
Analysis:	OQA-QAM-025	**Date Received:**	5-Jan-10
Matrix:	Soil	**Date Extracted:**	6-Jan-10
Inst. ID:	GC TPHC INST. #1	**Extraction Method:**	Shake
Column Type:	RTX-5, 0.32mm ID, 30 m	**Analysis Complete:**	7-Jan-10
Injection Volume:	1 uL	**Analyst:**	Robert Szot
Blank Conc.:	0.00		

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data Qualifiers	
MB01061001	MB01061001	1.00	15.08	100.00	23	332	0.00		
LCS01061001	LCS01061001	1.00	15.18	100.00	23	329	909.93		
1000301	538-A BOTTOM	1.00	15.07	73.6	32	451	0.00		
1000302	538-B NORTH WALL	1.00	15.10	75.1	31	441	0.00		
1000303	538-C EAST WALL	1.00	15.06	79.1	29	420	2533.02		
1000304	538 DUPLICATE	1.00	15.14	73.9	31	447	2696.93		D

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution

000109

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature Dean Tadiyil

Date: 2/1/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff 2/1/10

Dean Tardiff
Laboratory Manager

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

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: 10-11823

Parcel 76/Bldg. 538

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
538-D/West Wall	1000601	Soil	07-Jan-10 09:10	01/07/10
538-E/East Wall	1000602	Soil	07-Jan-10 09:30	01/07/10
538-F/East Wall	1000603	Soil	07-Jan-10 09:50	01/07/10
538-G/South Wall	1000604	Soil	07-Jan-10 10:20	01/07/10
538-H/South Wall	1000605	Soil	07-Jan-10 10:45	01/07/10
538-I/South Wall	1000606	Soil	07-Jan-10 11:10	01/07/10
538-Duplicate	1000607	Soil	07-Jan-10 09:50	01/07/10

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB.
TPHC, %SOLIDS

ACCUTEST LABORATORIES
BN+15, %SOLIDS

Dean Tardiff 2/1/10
Dean Tardiff/Date:
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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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:jacqueline.hamer@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: CHUCK APPLEBY | Project No: 10-11823
Phone #: X26292 | Location: PARCEL 76 BLDG. 538
( )DERA ( )OMA (X)Other: BRAC
Samplers Name / Company: FRANK ACCORSI / TVS

LIMS/Work Order #	Sample Location	Date	Time	Sample Type	# bottles	TPH	% SOLIDS	BTU *				FID (PPM)	DEPTH (FT)	Remarks / Preservation Method
10006 01	538-D, WEST WALL	1-7-10	0910	SOIL	1	X	X	X				0	6-6.5	ICE
02	538-E EAST WALL PIPE-NORTH		0930			X	X	X				24	6-6.5	
03	538-F, EAST WALL PIPE-SOUTH		0950			X	X	X				24	6-6.5	
04	538-G, SOUTH WALL PIPE-EAST		1020			X	X	X				35	6-6.5	
05	538-H, SOUTH WALL PIPE-MIDDLE		1045			X	X	X				66	6-6.5	
06	538-I, SOUTH WALL PIPE-WEST		1110			X	X	X				43	6-6.5	
07	538-DUPLICATE		0950			X	X	X				24	6-6.5	

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Frank Accorsi	1-7-10 1130				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, (X)Reduced, ( )Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: ( )Standard 3 wks, (X)Rush WK 3 DAYS ( )ASAP Verbal ___Hrs.

Comments: * NAPHTHALENE AND 2-METHYL-NAPHTHALENE

000002

print legibly

new coc._1.XLS10/9/2009

SAMPLE RECEIPT FORM

Date Received: 1-7-10 Work Order ID#: 100016

Site/Proj. Name: BLM 338/Area 76 Cooler Temp (°C): 3.0°C

Received By: J. Vasquez Sign: J. Vasquez
(Print name)

Check the appropriate box

1. Did the samples come in a cooler? ☑ yes ☐ no ☐ n/a
2. Were samples rec'd in good condition? ☑ yes ☐ no
3. Was the chain of custody filled out correctly and legibly? ☑ yes ☐ no
4. Was the chain of custody signed in the appropriate place? ☑ yes ☐ no
5. Did the labels agree with the chain of custody? ☑ yes ☐ no
6. Were the correct containers/preservatives used? ☑ yes ☐ no
7. Was a sufficient amount of sample supplied? ☑ yes ☐ no
8. Were air bubbles present in VOA vials? ☐ yes ☐ no ☑ n/a
9. Were samples received on ice? ☑ yes ☐ no
10. Were analyze-immediately tests perform within 15 minutes ☐ yes ☐ no ☑ n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:Dean Tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Dean Tardiff
Phone #: (732)532-4359
( )DERA ( )OMA ( )Other:_____

Project No:
Location: Bldg. 538/Parcel 76

Samplers Name / Company:

Work Order #	Sample Location	Date	Time	Sample Type	# bottles	Analysis Parameters: BN+15	Analysis Parameters: SIMS	Comments: Remarks / Preservation Method
1000601	538-D West Wall	1/7/2010	9:10	Soil	1	X	X	
1000602	538-E East Wall	1/7/2010	9:30	Soil	1	X	X	
1000603	538-F East Wall	1/7/2010	9:50	Soil	1	X	X	
1000604	538-G East Wall	1/7/2010	10:20	Soil	1	X	X	
1000605	538-H South Wall	1/7/2010	10:45	Soil	1	X	X	
1000606	538-I South Wall	1/7/2010	11:10	Soil	1	X	X	
1000607	538-Duplicate	1/7/2010	9:50	Soil	1	X	X	

Comments: P.O. # C03-20650

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
	1-11-10 915				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, (X)Reduced, ( )Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: ( )Standard 3 wks, (X)Rush Wk., _( )ASAP Verbal ____Hrs.

Comments: 3 DAY TAT

print legibly

10006. OUT COC_1.xls1/11/2010

400004

GPS POINTS

U.S. ARMY - FT. MONMOUTH, NJ

(former)BUILDING 538 - (1,000 G. UST)

SOIL SAMPLING GPS POSITIONS & COORDINATES

US STATE PLANE 1983, NJ (NY EAST) 2900, NAD 1983 (CONUS)

(IN US SURVEY FEET)

SAMPLE POINTS

POSITION/DESCRIPTION	Y COORDINATE (NORTHING)	X COORDINATE (EASTING)
538A BOTTOM	541266.714	620213.306
538B NORTH WALL	541276.163	620211.728
538C EAST WALL	541272.058	620231.932
538D WEST WALL	541261.611	620197.264
538E EAST WALL PIPE NORTH	541274.844	620229.777
538F EAST WALL PIPE SOUTH	541265.898	620231.095
538G SOUTH WALL PIPE EAST	541257.853	620225.483
538H SOUTH WALL PIPE MIDDLE	541255.773	620216.717
538I SOUTH WALL PIPE WEST	541254.562	620208.443

FIELD DUPLICATE

Field Duplicate Identification

Lab ID: 10006 Site: Bldg. 538

The Field Duplicate was performed on 538-F/East Wall (1000603)

METHOD SUMMARY

Method Summary

EPA SW-846 Method 8270
Gas Chromatographic Determination of Semi-volatiles in Soil

Surrogates are added to a 10-gram soil sample that has been dried with sodium sulfate. The sample is then extracted using a soxtherm extractor. The extract is concentrated to 1 ml. Internal standards are added and the sample is injected into a GC/MS system. Semi-volatiles are identified and quantitated. The final concentration is calculated using soil weight, percent moisture and concentration.

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

ACCUTEST Laboratories

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Fort Monmouth Environmental Testing Lab.	Job No	JA37204
Site:	Parcel 76/Building 538	Report Date	1/26/2010 12:09:01 PM

On 01/11/2010, 7 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 3.2 C. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of JA37204 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Extractables by GCMS By Method SW846 8270C

Matrix: SO Batch ID: OP41765

- All samples were extracted within the recommended method holding time.
- Sample(s) JA37204-4MS, JA37204-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 2,4-Dinitrotoluene, 2-Chloronaphthalene, 2-Nitroaniline, 4-Bromophenyl phenyl ether, Atrazine, Caprolactam, Fluorene, N-Nitrosodiphenylamine, Naphthalene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2-Chloronaphthalene, 2-Nitroaniline, 4-Bromophenyl phenyl ether, 4-Chloroaniline, Atrazine, Naphthalene, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Recovery(s) for 2-Methylnaphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for MSD for 2,4-Dinitrotoluene, 2,6-Dinitrotoluene, 4-Chlorophenyl phenyl ether, Acenaphthene, Dibenzofuran, Diethyl phthalate, Dimethyl phthalate, Fluorene, N-Nitrosodiphenylamine are outside control limits for sample OP41765-MSD. Probable cause due to sample homogeneity.
- Sample(s) JA37204-5, OP41765-MS, OP41765-MSD have surrogates outside control limits. Probable cause due to matrix interference.
- OP41765-MSD for Dimethyl phthalate: Outside control limits due to matrix interference.
- OP41765-MSD for 4-Chlorophenyl phenyl ether: Outside control limits due to matrix interference.
- OP41765-MSD for Acenaphthene: Outside control limits due to matrix interference.
- OP41765-MSD for Diethyl phthalate: Outside control limits due to matrix interference.
- OP41765-MS for Nitrobenzene-d5: Outside control limits due to matrix interference.
- OP41765-MSD for Fluorene: Outside control limits due to matrix interference.
- OP41765-MSD for N-Nitrosodiphenylamine: Outside control limits due to matrix interference.
- OP41765-MSD for Nitrobenzene-d5: Outside control limits due to matrix interference.
- JA37204-5 for 2-Fluorobiphenyl: Outside control limits due to dilution.
- JA37204-5 for Nitrobenzene-d5: Outside control limits due to dilution.
- JA37204-5 for Terphenyl-d14: Outside control limits due to dilution.
- OP41765-MSD for Dibenzofuran: Outside control limits due to matrix interference.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix: SO	Batch ID: OP41765A

- All samples were extracted within the recommended method holding time.
- Sample(s) JA37204-4MS, JA37204-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Dibenzo(a,h)anthracene, Indeno(1,2,3-cd)pyrene are outside control limits.
- Matrix Spike Recovery(s) for Phenanthrene, Naphthalene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Duplicate Recovery(s) for Acenaphthene, Naphthalene, Pyrene, Fluorene are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for Fluorene are outside control limits for sample OP41765A-MSD. Probable cause due to sample homogeneity.
- OP41765A-MS for Naphthalene: Outside control limits due to matrix interference.
- OP41765A-BS12 for Dibenzo(a,h)anthracene: Outside of in house control limits.
- OP41765A-BS12 for Indeno(1,2,3-cd)pyrene: Outside of in house control limits.

Wet Chemistry By Method SM18 2540G

Matrix: SO	Batch ID: GN33879

- The data for SM18 2540G meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

10006 TPHC

TPHC CONFORMANCE/NON-CONFORMANCE SUMMARY REPORT

		Indicate Yes, No, N/A
1.	Method Detection Limits Provided	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank	NO
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range)	Yes
4.	Duplicate Results Summary Meet Criteria	Yes
5.	IR Spectra submitted for standards, blanks and samples	NO
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted	Yes
7.	Analysis holding time met (If not met, list number of days exceeded for each sample)	Yes

Additional comments: _____

Laboratory Manager: [signature] Date: 2/1/10

[signature] 1/13/09

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 10006 **Site:** Bldg. 538

	Date	Hold Time
Date Sampled	01/07/10	NA
Receipt/Refrigeration	01/07/10	NA

Analyses

1.	Semi Volatiles	01/13,14/10	14 Days
2.	TPHC	01/12/10	14 Days

SEMI-VOLATILE ORGANICS

Accutest Laboratories

Report of Analysis

Client Sample ID:	1000601 538-D WEST WALL		
Lab Sample ID:	JA37204-1	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	82.7
Project:	Parcel 76/Building 538		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M16668.D	1	01/13/10	KLS	01/12/10	OP41765	E3M731
Run #2							

	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

BN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	35	10	ug/kg	
208-96-8	Acenaphthylene	ND	35	11	ug/kg	
98-86-2	Acetophenone	ND	170	6.1	ug/kg	
120-12-7	Anthracene	ND	35	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.8	ug/kg	
56-55-3	Benzo(a)anthracene	ND	35	11	ug/kg	
50-32-8	Benzo(a)pyrene	ND	35	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	35	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	35	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	35	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	69	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	69	20	ug/kg	
92-52-4	1,1'-Biphenyl	ND	69	4.0	ug/kg	
100-52-7	Benzaldehyde	ND	170	7.9	ug/kg	
91-58-7	2-Chloronaphthalene	ND	69	11	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	69	16	ug/kg	
105-60-2	Caprolactam	ND	69	11	ug/kg	
218-01-9	Chrysene	ND	35	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	69	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	69	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	69	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	69	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	69	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	69	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	8.8	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	12	ug/kg	
132-64-9	Dibenzofuran	ND	69	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	69	7.7	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	69	17	ug/kg	
84-66-2	Diethyl phthalate	ND	69	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	69	12	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1000601 538-D WEST WALL		
Lab Sample ID:	JA37204-1	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	82.7
Project:	Parcel 76/Building 538		

BN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
117-81-7	bis(2-Ethylhexyl)phthalate	ND	69	31	ug/kg	
206-44-0	Fluoranthene	ND	35	15	ug/kg	
86-73-7	Fluorene	ND	35	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	69	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	9.6	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	690	35	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.6	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	35	12	ug/kg	
78-59-1	Isophorone	ND	69	9.3	ug/kg	
91-57-6	2-Methylnaphthalene	ND	69	19	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	14	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	ND	35	9.4	ug/kg	
98-95-3	Nitrobenzene	ND	69	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	69	8.4	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	21	ug/kg	
85-01-8	Phenanthrene	ND	35	16	ug/kg	
129-00-0	Pyrene	ND	35	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	53%		28-113%
321-60-8	2-Fluorobiphenyl	62%		38-107%
1718-51-0	Terphenyl-d14	70%		31-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.26	420	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: 4M14657.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	1000601 538-D WEST WALL		
Lab Sample ID:	JA37204-1	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C BY SIM SW846 3550B	Percent Solids:	82.7
Project:	Parcel 76/Building 538		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M14657.D	1	01/14/10	KLS	01/12/10	OP41765A	E4M662
Run #2							

	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	3.5	0.47	ug/kg	
208-96-8	Acenaphthylene	ND	3.5	1.0	ug/kg	
120-12-7	Anthracene	ND	3.5	0.35	ug/kg	
56-55-3	Benzo(a)anthracene	ND	3.5	0.46	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3.5	0.52	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3.5	1.7	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.5	1.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.5	0.83	ug/kg	
218-01-9	Chrysene	ND	3.5	0.47	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.5	0.99	ug/kg	
206-44-0	Fluoranthene	ND	3.5	0.34	ug/kg	
86-73-7	Fluorene	ND	3.5	0.42	ug/kg	
118-74-1	Hexachlorobenzene	ND	3.5	0.51	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.5	1.4	ug/kg	
91-20-3	Naphthalene	ND	3.5	0.79	ug/kg	
85-01-8	Phenanthrene	ND	3.5	0.54	ug/kg	
129-00-0	Pyrene	ND	3.5	0.39	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	64%		17-113%
321-60-8	2-Fluorobiphenyl	63%		21-100%
1718-51-0	Terphenyl-d14	63%		15-111%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1000602 538-E EAST WALL		
Lab Sample ID:	JA37204-2	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	80.2
Project:	Parcel 76/Building 538		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M16673.D	1	01/13/10	KLS	01/12/10	OP41765	E3M731
Run #2							

	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

BN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
208-96-8	Acenaphthylene	ND	36	11	ug/kg	
98-86-2	Acetophenone	ND	180	6.3	ug/kg	
120-12-7	Anthracene	ND	36	12	ug/kg	
1912-24-9	Atrazine	ND	180	7.0	ug/kg	
56-55-3	Benzo(a)anthracene	ND	36	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	36	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	36	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	36	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	36	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	71	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	71	21	ug/kg	
92-52-4	1,1'-Biphenyl	ND	71	4.1	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.2	ug/kg	
91-58-7	2-Chloronaphthalene	ND	71	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	11	ug/kg	
86-74-8	Carbazole	ND	71	16	ug/kg	
105-60-2	Caprolactam	ND	71	11	ug/kg	
218-01-9	Chrysene	ND	36	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	71	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	71	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	71	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	71	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	71	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	71	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	9.0	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	36	12	ug/kg	
132-64-9	Dibenzofuran	157	71	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	71	7.9	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	71	17	ug/kg	
84-66-2	Diethyl phthalate	ND	71	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	71	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	36.7	71	31	ug/kg	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1000602 538-E EAST WALL		
Lab Sample ID:	JA37204-2	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	80.2
Project:	Parcel 76/Building 538		

BN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
206-44-0	Fluoranthene	ND	36	16	ug/kg	
86-73-7	Fluorene	710	36	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	71	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	9.9	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	710	36	ug/kg	
67-72-1	Hexachloroethane	ND	180	9.9	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36	12	ug/kg	
78-59-1	Isophorone	ND	71	9.6	ug/kg	
91-57-6	2-Methylnaphthalene	ND	71	20	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	ND	36	9.7	ug/kg	
98-95-3	Nitrobenzene	ND	71	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	71	8.7	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	21	ug/kg	
85-01-8	Phenanthrene	ND	36	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	72%		28-113%
321-60-8	2-Fluorobiphenyl	81%		38-107%
1718-51-0	Terphenyl-d14	98%		31-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	6.20	6300	ug/kg	J
	1H-Indene-dihydro-trimethyl	6.47	3400	ug/kg	J
	unknown	6.54	2500	ug/kg	J
	unknown	6.70	4500	ug/kg	J
	Naphthalene tetrahydro-dimethyl	7.37	2500	ug/kg	J
	unknown	7.64	4100	ug/kg	J
	alkane	7.89	7400	ug/kg	J
	alkane	8.03	2600	ug/kg	J
	Naphthalene trimethyl	8.69	4700	ug/kg	J
	unknown	9.09	3100	ug/kg	J
	alkane	9.38	11000	ug/kg	J
	alkane	9.82	23000	ug/kg	J
	unknown	9.94	5400	ug/kg	J
	alkane	10.54	8700	ug/kg	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1000602 538-E EAST WALL		
Lab Sample ID:	JA37204-2	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	80.2
Project:	Parcel 76/Building 538		

BN TCL List (CLP4.2 list)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	11.08	3400	ug/kg	J
	Total TIC, Semi-Volatile		92600	ug/kg	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1000602 538-E EAST WALL		
Lab Sample ID:	JA37204-2	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C BY SIM SW846 3550B	Percent Solids:	80.2
Project:	Parcel 76/Building 538		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M14661.D	1	01/14/10	KLS	01/12/10	OP41765A	E4M662
Run #2							

	Initial Weight	Final Volume
Run #1	35.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	165	3.6	0.48	ug/kg	
208-96-8	Acenaphthylene	ND	3.6	1.0	ug/kg	
120-12-7	Anthracene	ND	3.6	0.36	ug/kg	
56-55-3	Benzo(a)anthracene	10.7	3.6	0.47	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3.6	0.53	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3.6	1.7	ug/kg	
191-24-2	Benzo(g,h,i)perylene	4.08	3.6	1.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.6	0.85	ug/kg	
218-01-9	Chrysene	8.01	3.6	0.48	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.6	1.0	ug/kg	
206-44-0	Fluoranthene	26.8	3.6	0.35	ug/kg	
118-74-1	Hexachlorobenzene	ND	3.6	0.53	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	4.64	3.6	1.4	ug/kg	
91-20-3	Naphthalene	ND	3.6	0.81	ug/kg	
85-01-8	Phenanthrene	62.0	3.6	0.55	ug/kg	
129-00-0	Pyrene	113	3.6	0.40	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	62%		17-113%
321-60-8	2-Fluorobiphenyl	59%		21-100%
1718-51-0	Terphenyl-d14	63%		15-111%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1000603 538-F EAST WALL		
Lab Sample ID:	JA37204-3	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	81.2
Project:	Parcel 76/Building 538		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M16669.D	1	01/13/10	KLS	01/12/10	OP41765	E3M731
Run #2							

	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

BN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	476	35	10	ug/kg	
208-96-8	Acenaphthylene	ND	35	11	ug/kg	
98-86-2	Acetophenone	ND	180	6.2	ug/kg	
120-12-7	Anthracene	ND	35	12	ug/kg	
1912-24-9	Atrazine	ND	180	6.9	ug/kg	
56-55-3	Benzo(a)anthracene	ND	35	11	ug/kg	
50-32-8	Benzo(a)pyrene	ND	35	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	35	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	35	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	35	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	70	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	70	20	ug/kg	
92-52-4	1,1'-Biphenyl	ND	70	4.1	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.1	ug/kg	
91-58-7	2-Chloronaphthalene	ND	70	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	11	ug/kg	
86-74-8	Carbazole	ND	70	16	ug/kg	
105-60-2	Caprolactam	ND	70	11	ug/kg	
218-01-9	Chrysene	ND	35	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	70	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	70	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	70	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	70	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	70	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	70	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	8.9	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	12	ug/kg	
132-64-9	Dibenzofuran	355	70	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	70	7.8	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	70	17	ug/kg	
84-66-2	Diethyl phthalate	ND	70	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	70	12	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1000603 538-F EAST WALL		
Lab Sample ID:	JA37204-3	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	81.2
Project:	Parcel 76/Building 538		

BN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
117-81-7	bis(2-Ethylhexyl)phthalate	ND	70	31	ug/kg	
206-44-0	Fluoranthene	ND	35	16	ug/kg	
86-73-7	Fluorene	1240	35	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	70	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	9.8	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	700	36	ug/kg	
67-72-1	Hexachloroethane	ND	180	9.8	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	35	12	ug/kg	
78-59-1	Isophorone	ND	70	9.5	ug/kg	
91-57-6	2-Methylnaphthalene	ND	70	20	ug/kg	
88-74-4	2-Nitroaniline	ND	180	15	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	ND	35	9.6	ug/kg	
98-95-3	Nitrobenzene	ND	70	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	70	8.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	21	ug/kg	
85-01-8	Phenanthrene	1980	35	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		28-113%
321-60-8	2-Fluorobiphenyl	89%		38-107%
1718-51-0	Terphenyl-d14	107%		31-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	7.91	3500	ug/kg	J
	Naphthalene trimethyl	8.72	3000	ug/kg	J
	alkane	9.39	14000	ug/kg	J
	alkane	9.84	30000	ug/kg	J
	Dimethylbiphenyl	9.96	7000	ug/kg	J
	unknown	10.16	3400	ug/kg	J
	alkene	10.22	2900	ug/kg	J
	unknown	10.32	3700	ug/kg	J
	unknown	10.93	3600	ug/kg	J
30995-64-3	Methyldibenzothiophene	11.03	3000	ug/kg	JN
	alkane	11.10	4900	ug/kg	J
	unknown	11.31	3500	ug/kg	J
	Phenanthrene methyl	11.36	3900	ug/kg	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1000603 538-F EAST WALL		
Lab Sample ID:	JA37204-3	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	81.2
Project:	Parcel 76/Building 538		

BN TCL List (CLP4.2 list)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Phenanthrene dimethyl	11.97	2600	ug/kg	J
	unknown	12.15	3000	ug/kg	J
	Total TIC, Semi-Volatile		92000	ug/kg	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1000603 538-F EAST WALL		
Lab Sample ID:	JA37204-3	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C BY SIM SW846 3550B	Percent Solids:	81.2
Project:	Parcel 76/Building 538		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M14658.D	1	01/14/10	KLS	01/12/10	OP41765A	E4M662
Run #2							

	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
208-96-8	Acenaphthylene	ND	3.5	1.0	ug/kg	
120-12-7	Anthracene	144	3.5	0.36	ug/kg	
56-55-3	Benzo(a)anthracene	7.23	3.5	0.46	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3.5	0.53	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3.5	1.7	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.5	1.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.5	0.84	ug/kg	
218-01-9	Chrysene	7.60	3.5	0.48	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.5	1.0	ug/kg	
206-44-0	Fluoranthene	29.8	3.5	0.35	ug/kg	
118-74-1	Hexachlorobenzene	ND	3.5	0.52	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.5	1.4	ug/kg	
91-20-3	Naphthalene	ND	3.5	0.81	ug/kg	
129-00-0	Pyrene	134	3.5	0.40	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59%		17-113%
321-60-8	2-Fluorobiphenyl	52%		21-100%
1718-51-0	Terphenyl-d14	59%		15-111%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1000604 538-G EAST WALL		
Lab Sample ID:	JA37204-4	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	81.1
Project:	Parcel 76/Building 538		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M16676.D	1	01/13/10	KLS	01/12/10	OP41765	E3M731
Run #2	3M16706.D	20	01/14/10	KLS	01/12/10	OP41765	E3M732

	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2	35.0 g	1.0 ml

BN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	2180	35	10	ug/kg	
208-96-8	Acenaphthylene	ND	35	11	ug/kg	
98-86-2	Acetophenone	ND	180	6.2	ug/kg	
120-12-7	Anthracene	935	35	12	ug/kg	
1912-24-9	Atrazine	ND	180	6.9	ug/kg	
56-55-3	Benzo(a)anthracene	102	35	11	ug/kg	
50-32-8	Benzo(a)pyrene	51.2	35	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	153	35	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	26.2	35	13	ug/kg	J
207-08-9	Benzo(k)fluoranthene	34.4	35	13	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	70	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	70	20	ug/kg	
92-52-4	1,1'-Biphenyl	ND	70	4.1	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.1	ug/kg	
91-58-7	2-Chloronaphthalene	ND	70	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	11	ug/kg	
86-74-8	Carbazole	ND	70	16	ug/kg	
105-60-2	Caprolactam	ND	70	11	ug/kg	
218-01-9	Chrysene	162	35	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	70	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	70	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	70	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	70	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	70	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	70	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	8.9	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	12	ug/kg	
132-64-9	Dibenzofuran	1100	70	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	70	7.8	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	70	17	ug/kg	
84-66-2	Diethyl phthalate	ND	70	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	70	12	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1000604 538-G EAST WALL		
Lab Sample ID:	JA37204-4	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	81.1
Project:	Parcel 76/Building 538		

BN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
117-81-7	bis(2-Ethylhexyl)phthalate	ND	70	31	ug/kg	
206-44-0	Fluoranthene	347	35	16	ug/kg	
86-73-7	Fluorene	2810	35	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	70	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	9.8	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	700	36	ug/kg	
67-72-1	Hexachloroethane	ND	180	9.8	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	19.9	35	12	ug/kg	J
78-59-1	Isophorone	ND	70	9.5	ug/kg	
91-57-6	2-Methylnaphthalene	50700 [a]	1400	390	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	ND	35	9.6	ug/kg	
98-95-3	Nitrobenzene	ND	70	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	70	8.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	21	ug/kg	
85-01-8	Phenanthrene	8590 [a]	700	320	ug/kg	
129-00-0	Pyrene	1270	35	14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	59%	39%	28-113%
321-60-8	2-Fluorobiphenyl	67%	71%	38-107%
1718-51-0	Terphenyl-d14	89%	89%	31-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	C4 alkyl benzene	4.43	3100	ug/kg	J
	C4 alkyl benzene	5.11	3800	ug/kg	J
	alkane	5.68	2800	ug/kg	J
	Naphthalene tetrahydro-methyl	5.75	2100	ug/kg	J
	alkane	6.31	30000	ug/kg	J
90-12-0	Naphthalene, 1-methyl-	6.79	26000	ug/kg	JN
	alkane	7.27	3300	ug/kg	J
	Naphthalene dimethyl	7.80	4500	ug/kg	J
	Naphthalene trimethyl	8.45	1800	ug/kg	J
	Naphthalene trimethyl	8.80	2700	ug/kg	J
	alkane	9.90	1700	ug/kg	J
	unknown	12.49	3500	ug/kg	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1000604 538-G EAST WALL		
Lab Sample ID:	JA37204-4	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	81.1
Project:	Parcel 76/Building 538		

BN TCL List (CLP4.2 list)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	12.77	2800	ug/kg	J
	unknown	12.82	3600	ug/kg	J
	Total TIC, Semi-Volatile		91700	ug/kg	J

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1000604 538-G EAST WALL		
Lab Sample ID:	JA37204-4	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C BY SIM SW846 3550B	Percent Solids:	81.1
Project:	Parcel 76/Building 538		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M14665.D	1	01/14/10	KLS	01/12/10	OP41765A	E4M662
Run #2							

	Initial Weight	Final Volume
Run #1	35.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
208-96-8	Acenaphthylene	ND	3.5	1.0	ug/kg	
118-74-1	Hexachlorobenzene	ND	3.5	0.52	ug/kg	
91-20-3	Naphthalene	ND	3.5	0.81	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	103%		17-113%
321-60-8	2-Fluorobiphenyl	60%		21-100%
1718-51-0	Terphenyl-d14	59%		15-111%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1000605 538-H SOUTH WALL		
Lab Sample ID:	JA37204-5	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	78.8
Project:	Parcel 76/Building 538		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M16675.D	1	01/13/10	KLS	01/12/10	OP41765	E3M731
Run #2	3M16708.D	20	01/14/10	KLS	01/12/10	OP41765	E3M732
Run #3	3M16709.D	100	01/14/10	KLS	01/12/10	OP41765	E3M732

	Initial Weight	Final Volume
Run #1	35.2 g	1.0 ml
Run #2	35.2 g	1.0 ml
Run #3	35.2 g	1.0 ml

BN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	5070 [a]	720	210	ug/kg	
208-96-8	Acenaphthylene	ND	36	12	ug/kg	
98-86-2	Acetophenone	ND	180	6.3	ug/kg	
120-12-7	Anthracene	nd	36	13	ug/kg	
1912-24-9	Atrazine	ND	180	7.1	ug/kg	
56-55-3	Benzo(a)anthracene	313	36	12	ug/kg	
50-32-8	Benzo(a)pyrene	242	36	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	263	36	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	104	36	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	87.9	36	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	72	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	72	21	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	72	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	12	ug/kg	
86-74-8	Carbazole	ND	72	17	ug/kg	
105-60-2	Caprolactam	ND	72	11	ug/kg	
218-01-9	Chrysene	370	36	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	72	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	72	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	72	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	72	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	72	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	72	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	9.2	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	22.1	36	12	ug/kg	J
132-64-9	Dibenzofuran	7700 [a]	1400	210	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	72	8.0	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	72	18	ug/kg	
84-66-2	Diethyl phthalate	ND	72	12	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1000605 538-H SOUTH WALL		
Lab Sample ID:	JA37204-5	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	78.8
Project:	Parcel 76/Building 538		

BN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
131-11-3	Dimethyl phthalate	ND	72	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	72	32	ug/kg	
206-44-0	Fluoranthene	2420	36	16	ug/kg	
86-73-7	Fluorene	9060 [a]	720	240	ug/kg	
118-74-1	Hexachlorobenzene	ND	72	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	720	37	ug/kg	
67-72-1	Hexachloroethane	ND	180	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	81.2	36	13	ug/kg	
78-59-1	Isophorone	ND	72	9.7	ug/kg	
91-57-6	2-Methylnaphthalene	110000 [b]	7200	2000	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	29600 [a]	720	200	ug/kg	
98-95-3	Nitrobenzene	ND	72	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	72	8.8	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	22	ug/kg	
85-01-8	Phenanthrene	27800 [a]	720	330	ug/kg	
129-00-0	Pyrene	3530	36	14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 3	Limits
4165-60-0	Nitrobenzene-d5	43%	113%	0% [c]	28-113%
321-60-8	2-Fluorobiphenyl	79%	104%	0% [c]	38-107%
1718-51-0	Terphenyl-d14	113%	111%	0% [c]	31-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	C3 alkyl benzene	3.21	3500	ug/kg	J
	C3 alkyl benzene	3.28	5200	ug/kg	J
	alkane	3.77	3600	ug/kg	J
	unknown	3.82	5600	ug/kg	J
	Naphthalene decahydro	4.13	4700	ug/kg	J
	alkane	4.25	7500	ug/kg	J
	C4 alkyl benzene	4.44	10000	ug/kg	J
	alkane	4.54	10000	ug/kg	J
	unknown	4.61	3500	ug/kg	J
	unknown	5.28	14000	ug/kg	J
	unknown	5.59	8500	ug/kg	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1000605 538-H SOUTH WALL		
Lab Sample ID:	JA37204-5	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	78.8
Project:	Parcel 76/Building 538		

BN TCL List (CLP4.2 list)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Phenanthrene dimethyl	12.36	5300	ug/kg	J
	unknown	12.61	5200	ug/kg	J
	unknown	12.90	7500	ug/kg	J
	unknown	13.14	4600	ug/kg	J
	Total TIC, Semi-Volatile		98700	ug/kg	J

(a) Result is from Run# 2
(b) Result is from Run# 3
(c) Outside control limits due to dilution.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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Report of Analysis

Client Sample ID:	1000605 538-H SOUTH WALL		
Lab Sample ID:	JA37204-5	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C BY SIM SW846 3550B	Percent Solids:	78.8
Project:	Parcel 76/Building 538		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M14663.D	5	01/14/10	KLS	01/12/10	OP41765A	E4M662
Run #2							

	Initial Weight	Final Volume
Run #1	35.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
208-96-8	Acenaphthylene	ND	18	5.2	ug/kg	
118-74-1	Hexachlorobenzene	ND	18	2.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	47%		17-113%
321-60-8	2-Fluorobiphenyl	53%		21-100%
1718-51-0	Terphenyl-d14	67%		15-111%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1000606 538-I SOUTH WALL		
Lab Sample ID:	JA37204-6	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	70.4
Project:	Parcel 76/Building 538		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M16674.D	1	01/13/10	KLS	01/12/10	OP41765	E3M731
Run #2							

	Initial Weight	Final Volume
Run #1	35.2 g	1.0 ml
Run #2		

BN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	785	40	12	ug/kg	
208-96-8	Acenaphthylene	ND	40	13	ug/kg	
98-86-2	Acetophenone	ND	200	7.1	ug/kg	
120-12-7	Anthracene	ND	40	14	ug/kg	
1912-24-9	Atrazine	ND	200	7.9	ug/kg	
56-55-3	Benzo(a)anthracene	ND	40	13	ug/kg	
50-32-8	Benzo(a)pyrene	ND	40	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	40	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	40	15	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	40	15	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	81	15	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	81	23	ug/kg	
92-52-4	1,1'-Biphenyl	ND	81	4.7	ug/kg	
100-52-7	Benzaldehyde	ND	200	9.3	ug/kg	
91-58-7	2-Chloronaphthalene	ND	81	13	ug/kg	
106-47-8	4-Chloroaniline	ND	200	13	ug/kg	
86-74-8	Carbazole	ND	81	19	ug/kg	
105-60-2	Caprolactam	ND	81	13	ug/kg	
218-01-9	Chrysene	ND	40	14	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	81	16	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	81	12	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	81	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	81	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	81	18	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	81	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	200	10	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	40	14	ug/kg	
132-64-9	Dibenzofuran	598	81	12	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	81	9.0	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	81	20	ug/kg	
84-66-2	Diethyl phthalate	ND	81	14	ug/kg	
131-11-3	Dimethyl phthalate	ND	81	14	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1000606 538-I SOUTH WALL		
Lab Sample ID:	JA37204-6	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	70.4
Project:	Parcel 76/Building 538		

BN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
117-81-7	bis(2-Ethylhexyl)phthalate	ND	81	36	ug/kg	
206-44-0	Fluoranthene	ND	40	18	ug/kg	
86-73-7	Fluorene	1940	40	13	ug/kg	
118-74-1	Hexachlorobenzene	ND	81	13	ug/kg	
87-68-3	Hexachlorobutadiene	ND	40	11	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	810	41	ug/kg	
67-72-1	Hexachloroethane	ND	200	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	40	14	ug/kg	
78-59-1	Isophorone	ND	81	11	ug/kg	
91-57-6	2-Methylnaphthalene	2130	81	23	ug/kg	
88-74-4	2-Nitroaniline	ND	200	18	ug/kg	
99-09-2	3-Nitroaniline	ND	200	16	ug/kg	
100-01-6	4-Nitroaniline	ND	200	16	ug/kg	
91-20-3	Naphthalene	ND	40	11	ug/kg	
98-95-3	Nitrobenzene	ND	81	12	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	81	9.8	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	24	ug/kg	
85-01-8	Phenanthrene	2730	40	18	ug/kg	
129-00-0	Pyrene	556	40	15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	65%		28-113%
321-60-8	2-Fluorobiphenyl	75%		38-107%
1718-51-0	Terphenyl-d14	97%		31-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	5.55	2800	ug/kg	J
	alkane	5.65	8300	ug/kg	J
	alkene	5.79	4800	ug/kg	J
	unknown	5.93	4400	ug/kg	J
	alkane	6.24	17000	ug/kg	J
	alkane	6.64	1800	ug/kg	J
	unknown	6.73	9000	ug/kg	J
	unknown	6.80	1800	ug/kg	J
	alkane	7.94	3400	ug/kg	J
	Naphthalene trimethyl	8.74	3300	ug/kg	J
	unknown	9.13	2500	ug/kg	J
	alkane	9.86	2400	ug/kg	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1000606 538-I SOUTH WALL		
Lab Sample ID:	JA37204-6	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	70.4
Project:	Parcel 76/Building 538		

BN TCL List (CLP4.2 list)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	12.47	3200	ug/kg	J
	unknown	12.74	2400	ug/kg	J
	unknown	12.79	2900	ug/kg	J
	Total TIC, Semi-Volatile		70000	ug/kg	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1000606 538-I SOUTH WALL		
Lab Sample ID:	JA37204-6	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C BY SIM SW846 3550B	Percent Solids:	70.4
Project:	Parcel 76/Building 538		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M14662.D	1	01/14/10	KLS	01/12/10	OP41765A	E4M662
Run #2							

	Initial Weight	Final Volume
Run #1	35.2 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
208-96-8	Acenaphthylene	ND	4.0	1.2	ug/kg	
120-12-7	Anthracene	178	4.0	0.41	ug/kg	
56-55-3	Benzo(a)anthracene	16.5	4.0	0.53	ug/kg	
50-32-8	Benzo(a)pyrene	7.93	4.0	0.61	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	4.0	2.0	ug/kg	
191-24-2	Benzo(g,h,i)perylene	5.15	4.0	1.5	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	4.0	0.96	ug/kg	
218-01-9	Chrysene	21.6	4.0	0.54	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	4.0	1.2	ug/kg	
206-44-0	Fluoranthene	84.2	4.0	0.40	ug/kg	
118-74-1	Hexachlorobenzene	ND	4.0	0.60	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	5.10	4.0	1.6	ug/kg	
91-20-3	Naphthalene	ND	4.0	0.92	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	44%		17-113%
321-60-8	2-Fluorobiphenyl	44%		21-100%
1718-51-0	Terphenyl-d14	47%		15-111%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1000607 538-DUPLICATE		
Lab Sample ID:	JA37204-7	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	80.5
Project:	Parcel 76/Building 538		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M16670.D	1	01/13/10	KLS	01/12/10	OP41765	E3M731
Run #2							

	Initial Weight	Final Volume
Run #1	35.4 g	1.0 ml
Run #2		

BN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	431	35	10	ug/kg	
208-96-8	Acenaphthylene	ND	35	11	ug/kg	
98-86-2	Acetophenone	ND	180	6.2	ug/kg	
120-12-7	Anthracene	ND	35	12	ug/kg	
1912-24-9	Atrazine	ND	180	6.9	ug/kg	
56-55-3	Benzo(a)anthracene	ND	35	11	ug/kg	
50-32-8	Benzo(a)pyrene	ND	35	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	35	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	35	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	35	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	70	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	70	20	ug/kg	
92-52-4	1,1'-Biphenyl	ND	70	4.1	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.1	ug/kg	
91-58-7	2-Chloronaphthalene	ND	70	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	11	ug/kg	
86-74-8	Carbazole	ND	70	16	ug/kg	
105-60-2	Caprolactam	ND	70	11	ug/kg	
218-01-9	Chrysene	ND	35	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	70	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	70	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	70	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	70	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	70	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	70	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	8.9	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	12	ug/kg	
132-64-9	Dibenzofuran	333	70	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	70	7.8	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	70	17	ug/kg	
84-66-2	Diethyl phthalate	ND	70	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	70	12	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1000607 538-DUPLICATE		
Lab Sample ID:	JA37204-7	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	80.5
Project:	Parcel 76/Building 538		

BN TCL List (CLP4.2 list)

CAS No.	Compound	Result	RL	MDL	Units	Q
117-81-7	bis(2-Ethylhexyl)phthalate	ND	70	31	ug/kg	
206-44-0	Fluoranthene	ND	35	15	ug/kg	
86-73-7	Fluorene	1130	35	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	70	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	9.8	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	700	36	ug/kg	
67-72-1	Hexachloroethane	ND	180	9.8	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	35	12	ug/kg	
78-59-1	Isophorone	ND	70	9.4	ug/kg	
91-57-6	2-Methylnaphthalene	ND	70	20	ug/kg	
88-74-4	2-Nitroaniline	ND	180	15	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	ND	35	9.6	ug/kg	
98-95-3	Nitrobenzene	ND	70	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	70	8.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	21	ug/kg	
85-01-8	Phenanthrene	2080	35	16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		28-113%
321-60-8	2-Fluorobiphenyl	81%		38-107%
1718-51-0	Terphenyl-d14	97%		31-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Naphthalene tetrahydro-dimethyl	7.39	4000	ug/kg	J
	Naphthalene dimethyl	7.65	7200	ug/kg	J
	alkane	7.91	9700	ug/kg	J
	Naphthalene dimethyl	7.96	3800	ug/kg	J
	unknown	8.04	2900	ug/kg	J
	Naphthalene trimethyl	8.58	3600	ug/kg	J
	Naphthalene trimethyl	8.71	3400	ug/kg	J
	unknown	9.11	5600	ug/kg	J
	alkane	9.39	11000	ug/kg	J
	unknown	9.42	2900	ug/kg	J
	alkane	9.83	24000	ug/kg	J
	unknown	9.95	5700	ug/kg	J
	unknown	10.32	3300	ug/kg	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1000607 538-DUPLICATE		
Lab Sample ID:	JA37204-7	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C SW846 3550B	Percent Solids:	80.5
Project:	Parcel 76/Building 538		

BN TCL List (CLP4.2 list)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	alkane	11.10	3600	ug/kg	J
	unknown	11.36	3200	ug/kg	J
	Total TIC, Semi-Volatile		93900	ug/kg	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1000607 538-DUPLICATE		
Lab Sample ID:	JA37204-7	Date Sampled:	01/07/10
Matrix:	SO - Soil	Date Received:	01/11/10
Method:	SW846 8270C BY SIM SW846 3550B	Percent Solids:	80.5
Project:	Parcel 76/Building 538		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M14659.D	1	01/14/10	KLS	01/12/10	OP41765A	E4M662
Run #2							

	Initial Weight	Final Volume
Run #1	35.4 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
208-96-8	Acenaphthylene	ND	3.5	1.0	ug/kg	
120-12-7	Anthracene	75.7	3.5	0.36	ug/kg	
56-55-3	Benzo(a)anthracene	7.44	3.5	0.46	ug/kg	
50-32-8	Benzo(a)pyrene	ND	3.5	0.53	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	3.5	1.7	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	3.5	1.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	3.5	0.84	ug/kg	
218-01-9	Chrysene	7.09	3.5	0.47	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	3.5	1.0	ug/kg	
206-44-0	Fluoranthene	39.8	3.5	0.35	ug/kg	
118-74-1	Hexachlorobenzene	ND	3.5	0.52	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	3.5	1.4	ug/kg	
91-20-3	Naphthalene	ND	3.5	0.80	ug/kg	
129-00-0	Pyrene	162	3.5	0.40	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	64%		17-113%
321-60-8	2-Fluorobiphenyl	52%		21-100%
1718-51-0	Terphenyl-d14	56%		15-111%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

TPHC

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

Project #: 10-11823
Location: PARCEL 76
ECP:
Work Order:

Analysis: OQA-QAM-025
Matrix: Soil
Inst. ID: GC TPHC INST. #1
Column Type: RTX-5, 0.32mm ID, 30 m
Injection Volume: 1 uL
Blank Conc.: 0.00

Date Received: 7-Jan-10
Date Extracted: 7-Jan-10
Extraction Method: Shake
Analysis Complete: 12-Jan-10
Analyst: Robert Szot

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data	Qualifiers
MB01071001	MB01071001	1.00	15.18	100.00	23	329	0.00		
LCS01071001	LCS01071001	1.00	15.11	100.00	23	331	992.65		
1000601	538-D WEST WALL	1.00	15.23	82.1	28	400	625.58		
1000602	538-E EAST WALL PIPE NORTH	1.00	15.29	79.3	29	412	2900.36		
1000603	538-F EAST WALL PIPE SOUTH	1.00	15.20	81.0	28	406	4117.53		
1000604	538-G SOUTH WALL PIPE EAST	1.00	15.09	80.8	29	410	8786.85	E	
1000604	538-G SOUTH WALL PIPE EAST	2.00	15.09	80.8	57	820	6593.31		D
1000605	538-H SOUTH WALL PIPE MIDDLE	1.00	15.02	80.7	29	413	19087.14	E	
1000605	538-H SOUTH WALL PIPE MIDDLE	5.00	15.02	80.7	144	2063	16550.24		D
1000606	538-I SOUTH WALL PIPE WEST	1.00	15.20	71.8	32	458	3359.32		
1000607	538 DUPLICATE	1.00	15.21	82.0	28	401	2303.46		

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution

000337

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature _____

Date: 2/1/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

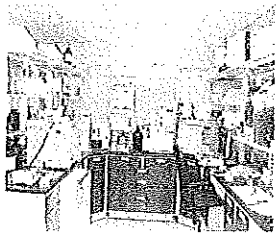
I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff 2/1/10

Dean Tardiff
Laboratory Manager

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



ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: 10-127102

PARCEL 76/Bldg.542

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
542-A/South Wall	1016901	Soil	29-Apr-10 14:05	04/29/10
542-B/West Wall	1016902	Soil	29-Apr-10 13:30	04/29/10
542-C/Bottom	1016903	Soil	29-Apr-10 13:10	04/29/10
542-D/East Wall	1016904	Soil	29-Apr-10 13:45	04/29/10
542-Duplicate	1016905	Soil	29-Apr-10 14:05	04/29/10

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, %SOLIDS

Dean Tardiff/Date: 5/11/10
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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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:jacqueline.hamer@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: CHUCK APPLEBY | Project No: 10-127102
Phone #: X 26292 | Location: PARCEL 76, BLOCK 542
( )DERA ( )OMA (X)Other: BRAC
Samplers Name / Company: FRANK ACCORSI / TVS

LIMS/Work Order #	Sample Location	Date	Time	Sample Type	# bottles	TPH	%0,50K,105					PID (PPM)	DEPTH (FT)	Remarks / Preservation Method
10109 01	542-A, SOUTH WALL	4-29-10	1405	SOIL	1	X	X					2.3	6-6.5	ICE
02	542-B, WEST WALL		1330			X	X					0	~~7~~ 7.5	6.5-7
03	542-C, BOTTOM		1310			X	X					0	8.5-9	
04	542-D, EAST WALL		1345			X	X					5.0	6-6.5	
05	542-DUPLICATE		1405			X	X					1.4	6-6.5	

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
Frank Accorsi	4-29-10 1605				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, (X)Reduced, ( )Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: ( )Standard 3 wks, (X)Rush~~3 Wk.~~ 7 DAYS, ( )ASAP Verbal ____Hrs.

Comments:

200000

print legibly

new coc._1.XLS8/18/2009

SAMPLE RECEIPT FORM

Date Received: 4-29-10 Work Order ID#: 10169

Site/Proj. Name: Parcel 76/ Bldg 542 Cooler Temp (°C): 4.3°C

Received By: J. Vergara Sign: J. Vergara
(Print name)

Check the appropriate box

1. Did the samples come in a cooler? ☑ yes ☐ no ☐ n/a
2. Were samples rec'd in good condition? ☑ yes ☐ no
3. Was the chain of custody filled out correctly and legibly? ☑ yes ☐ no
4. Was the chain of custody signed in the appropriate place? ☑ yes ☐ no
5. Did the labels agree with the chain of custody? ☑ yes ☐ no
6. Were the correct containers/preservatives used? ☑ yes ☐ no
7. Was a sufficient amount of sample supplied? ☑ yes ☐ no
8. Were air bubbles present in VOA vials? ☐ yes ☐ no ☑ n/a
9. Were samples received on ice? ☑ yes ☐ no
10. Were analyze-immediately tests perform within 15 minutes ☐ yes ☐ no ☑ n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

GPS POINTS

U.S. ARMY - FT. MONMOUTH, NJ

BUILDING 542 - (1,000 G. UST)

SOIL SAMPLING GPS POSITIONS & COORDINATES

US STATE PLANE 1983, NJ (NY EAST) 2900, NAD 1983 (CONUS)

(IN US SURVEY FEET)

SAMPLE POINTS

POSITION/DESCRIPTION	Y COORDINATE (NORTHING)	X COORDINATE (EASTING)
542A SOUTH WALL	541179.517	620118.25
542B WEST WALL	541179.843	620101.961
542C BOTTOM	541185.944	620116.053
542D EAST WALL	541188.915	620130.563

FIELD DUPLICATE

Field Duplicate Identification

Lab ID: 10169

Site: Parcel 76/Bldg. 542

The Field Duplicate was performed on 542-A/South Wall (1016901)

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

10169 TPHC

TPHC Conformance/Non-conformance Summary Report

		Indicate Yes, No, N/A
1.	Method Detection Limits provided.	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank. MB043010A1 has 185.37 mg/L of contamination, but none of the samples had any contamination detected.	Yes
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
4.	Duplicate Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
5.	IR Spectra submitted for standards, blanks and samples.	N/A
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted.	Yes
7.	Analysis holding time met. (If not met, list number of days exceeded for each sample).	Yes

Additional comments: _____

Laboratory Manager — Date: 5/11/10

5/3/10

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 10169 **Site:** Parcel 76/Bldg. 542

	Date	Hold Time
Date Sampled	04/29/10	NA
Receipt/Refrigeration	04/29/10	NA
Analyses		
1. TPHC	04/30/10	14 Days

TPHC

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

Project #: 10-127102
Location: PARCEL 76
ECP:
Work Order:

Analysis: OQA-QAM-025
Matrix: .
Inst. ID: GC TPHC INST. #1
Column Type: RTX-5, 0.32mm ID, 30 m
Injection Volume: 1 uL

Date Received: 29-Apr-10
Date Extracted: 30-Apr-10
Extraction Method: Shake
Analyst: Robert Szot

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data Qualifiers	
MB04301001	MB04301001	1.00	15.05	100.00	23	332	185.37		
LCS04301001	LCS04301001	1.00	15.05	100.00	23	332	1240.26		
1016901	542-A SOUTH WALL	1.00	15.04	83.0	28	401	not detected		
1016902	542-B WEST WALL	1.00	15.02	77.6	30	429	not detected		
1016903	542-C BOTTOM	1.00	15.08	74.3	31	446	not detected		
1016904	542-D EAST WALL	1.00	15.08	78.8	29	421	not detected		
1016905	542 DUPLICATE	1.00	15.11	84.1	28	393	not detected		

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution
ND = not detected

000015

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature Dan Tardo

Date: 5/11/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff
Laboratory Manager

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

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: 10-72654

PARCEL/76-20

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
541-PE1	1017401	Soil	04-May-10 13:35	05/04/10
541-PE2	1017402	Soil	04-May-10 13:45	05/04/10
541-PE3	1017403	Soil	04-May-10 13:55	05/04/10
541-PE4	1017404	Soil	04-May-10 14:15	05/04/10
541-PE5	1017405	Soil	04-May-10 14:45	05/04/10
541-DUP.	1017406	Soil	04-May-10 14:45	05/04/10

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, %SOLIDS

Dean Tardiff 6/1/10
Dean Tardiff/Date:
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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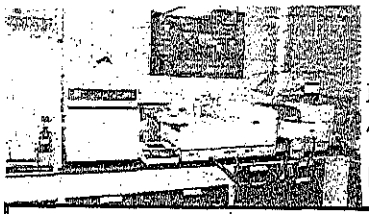
CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail: dean.tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Chuck Appleby
Phone #: X26292
( )DERA ( )OMA (X)Other: BRAC

Project No: 10-72654
Location: Parcel 76-20

Samplers Name / Company:

Work Order #	Sample Location	Date	Time	Sample Type	# bottles	TPH	% SOLIDS					PID (ppm)	Depth (ft)	Remarks / Preservation Method
10174 01	541 - PE1	5-4-10	1335	Solid	1	X	X					0.0	9.0	ICE
02	541 - PE2		1345		1	X	X					0.0	11.0	
03	541 - PE3		1355		1	X	X					0.0	6.5	
04	541 - PE4		1415		1	X	X					0.0	7.5	
05	541 - PE5		1445		1	X	X					0.0	6.5	
06	541- Dup		1445		1	X	X					0.0	6.5	

Analysis Parameters: TPH, % SOLIDS

Comments:

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
[signature]	5-4-10 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, ( )Rush Wk., (X)ASAP Verbal 24 Hrs.

Comments: * Contingent BNT15 if TPH > 1000 ppm
Note PE = Pipe Excavation. Excavated 3.5 5Ton Truck loads of contaminated soil.

000002

print legibly

new coc._1.XLS4/19/2010

SAMPLE RECEIPT FORM

Date Received: 5-4-10 Work Order ID#: 1017W

Site/Proj. Name: PAGE/71020 Cooler Temp (°C): 4.0 ac

Received By: J. Lindgren Sign:
(Print name)

Check the appropriate box

1. Did the samples come in a cooler?	yes	no	n/a
2. Were samples rec'd in good condition?	yes	no	
3. Was the chain of custody filled out correctly and legibly?	yes	no	
4. Was the chain of custody signed in the appropriate place?	yes	no	
5. Did the labels agree with the chain of custody?	yes	no	
6. Were the correct containers/preservatives used?	yes	no	
7. Was a sufficient amount of sample supplied?	yes	no	
8. Were air bubbles present in VOA vials?	yes	no	n/a
9. Were samples received on ice?	yes	no	
10. Were analyze-immediately tests perform within 15 minutes	yes	no	n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

GPS POINTS

U.S. ARMY-FT. MONMOUTH, NJ

BLDG. 541 /Parcel 76-20

SOIL SAMPLING GPS POSITIONS & COORDINATES

US STATE PLANE 1983, NJ (NY EAST) 2900, NAD 1983 (CONUS)

POSITION/DESCRIPTION	Y COORDINATE (NORTHING)	X COORDINATE (EASTING)
541-PE1	541208.844	620287.902
541-PE2	541207.577	620270.720
541-PE3	541215.109	620272.539
541-PE4	541199.366	620263.613
541-PE5	541204.470	620284.974

FIELD DUPLICATE

Field Duplicate Identification

Lab ID: 10174

Site: Parcel 76-20

The Field Duplicate was performed on 541/PE5 (1017405)

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

TPHC 10174

TPHC Conformance/Non-conformance Summary Report

		Indicate Yes, No, N/A
1.	Method Detection Limits provided.	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank.	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
4.	Duplicate Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
5.	IR Spectra submitted for standards, blanks and samples.	N/A
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted.	Yes
7.	Analysis holding time met. (If not met, list number of days exceeded for each sample).	Yes

Additional comments: _____

Laboratory Manager _____ Date 6/1/10

5/24/10

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 10174 **Site:** Parcel 76-20

	Date	Hold Time
Date Sampled	05/04/10	NA
Receipt/Refrigeration	05/04/10	NA
Analyses		
1. TPHC	05/06/10	14 Days

TPHC

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

Project #: 10-172654
Location: PARCEL 76
ECP:
Work Order:

Analysis: OQA-QAM-025
Matrix:
Inst. ID: GC TPHC INST. #1
Column Type: RTX-5, 0.32mm ID, 30 m
Injection Volume: 1 uL

Date Received: 4-May-10
Date Extracted: 6-May-10
Extraction Method: Shake
Analyst: Robert Szot

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data Qualifiers	
MB05061001	MB05061001	1.00	15.05	100.00	23	332	not detected		
LCS05061001	LCS05061001	1.00	15.05	100.00	23	332	1167.01		
1017401	541 PE1	1.00	15.04	83.0	28	401	not detected		
1017402	541 PE2	1.00	15.02	77.6	30	429	not detected		
1017403	541 PE3	1.00	15.31	79.1	29	413	2189.00		
1017404	541 PE4	1.00	15.08	78.8	29	421	not detected		
1017405	541 PE5	1.00	15.11	84.1	28	393	not detected		
1017406	541 DUP	1.00	15.11	84.1	28	393	not detected		

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution
ND = not detected

000045

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature Dean Tarabilda

Date: 6/1/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff 6/1/10
Dean Tardiff
Laboratory Manager

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

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: Parcel 76

PARCEL/76

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
541/East Center (11.5-12.0')	1021401	Soil	25-May-10 08:30	05/25/10

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, %SOLIDS

Dean Tardiff/Date: 6/11/10
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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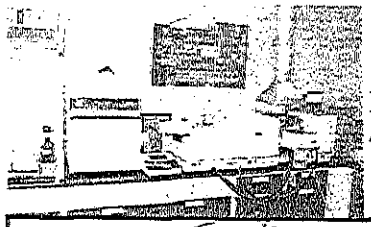
CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail: dean.tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Fort Monmouth
Phone #: X22492
( )DERA ( )OMA ( )Other:_____

Project No:
Location: Parcel 76

Samplers Name / Company:

Work Order #	Sample Location	Date	Time	Sample Type	# bottles	Analysis Parameters	Comments: Remarks / Preservation Method
10214-01	S4/East Center (11.5-12')	05/25/10	08:30	Soil	1	✓	on ice

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
	05/25/10 14:45				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, (X)Reduced, ( )Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: ( )Standard 3 wks, (✓)Rush Wk., ( )ASAP Verbal ___Hrs.

Comments: If TPH concentration is greater than 1,000 mg/kg run Base Neutral analysis.

print legibly

Page 1 of 1

new coc._1.XLS4/19/2010

000002

SAMPLE RECEIPT FORM

Date Received: 5-25-10 Work Order ID#: 10214

Site/Proj. Name: Panel 76 Cooler Temp (°C): ICE

Received By: Dean Tadda Sign:
(Print name)

Check the appropriate box

1. Did the samples come in a cooler?	yes	no	n/a
2. Were samples rec'd in good condition?	yes	no	
3. Was the chain of custody filled out correctly and legibly?	yes	no	
4. Was the chain of custody signed in the appropriate place?	yes	no	
5. Did the labels agree with the chain of custody?	yes	no	
6. Were the correct containers/preservatives used?	yes	no	
7. Was a sufficient amount of sample supplied?	yes	no	
8. Were air bubbles present in VOA vials?	yes	no	n/a
9. Were samples received on ice?	yes	no	
10. Were analyze-immediately tests perform within 15 minutes	yes	no	n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments:_____

GPS POINTS

US ARMY-FT. MONMOUTH, NJ
PARCEL 76 SOIL SAMPLES
SOIL SAMPLING GPS POSITIONS & COORDINATES
US STATE PLANE 1983, NJ (NY EAST) 2900, NAD 1983 (CONUS)

Position/Description	Y Coordinate Northing	X Coordinate (Easting)
541SewerTrenchA(7-7.5)	541280.566	620294.287
541SewerTrenchB(7-7.5)	541280.468	620302.119
541SewerTrenchC(7-7.5)	541284.384	620311.908
541NorthSPT-NW(7-7.5)	541294.663	620299.965
541NorthSPT-WW(7-7.5)	541289.670	620293.994
541NorthSPT-EW(7-7.5)	541290.649	620304.468
541SewerTrenchB(9-9.5)	541283.992	620299.965
542NorthWallA(7-7.5)	541187.079	620048.579
542EastWall(7-7.5)	541188.156	620069.332
542WestWall(7-7.5)	541175.626	620029.392
542SouthWall(7-7.5)	541169.165	620053.277
542NorthWallB(8-8.5)	541184.045	620036.734
542NorthWallC(8-8.5)	541189.625	620059.151
542SewerPipeTrenchA(7-7.5)	541207.441	620053.767
542SewerPipeTrenchB(7-7.5)	541199.316	620034.580
542NorthWallD(8-8.5)	541195.204	620060.326
542NorthWallE(8-8.5)	541187.667	620034.678
542NorthWallF(11-11.5)	541200.393	620059.249
542NorthWallG(11-11.5)	541191.289	620033.601
542NorthWallH(7-7.5)	541204.994	620057.683
542NorthWallI(8-8.5)	541204.994	620057.683
542NorthWallJ(7-7.5)	541195.988	620033.601
542NorthWallK(8-8.5)	541195.988	620033.601
SPT-1(7-7.5)	541258.443	620212.254
SPT-2(7-7.5)	541255.016	620199.626
SPT-3(7-7.5)	541250.807	620191.501
SPT-4(7-7.5)	541247.674	620181.907
SPT-5(7-7.5)	541244.150	620171.335
SPT-6(7-7.5)	541241.214	620159.980
SPT-7(7-7.5)	541260.890	620223.316
SPT-8(7-7.5)	541264.316	620234.182
SPT-9(7-7.5)	541266.861	620243.775
SPT-10(7-7.5)	541268.819	620255.522
SPT-11(7-7.5)	541271.462	620266.584
SPT-12(7-7.5)	541272.441	620276.275
543WestWallA(7-7.5)	541140.655	619922.819
543NorthWallC(10.5-11)	541135.815	620030.534

543SouthCenterA(9-9.5)	541136.884	619937.670
543SouthCenterB(9-9.5)	541143.412	619958.695
543SouthCenterA(11.5-12)	541137.326	619939.773
543WestWallB(9-9.5)	541138.654	619915.318
543NorthWallE(11.5-12)	541158.572	619937.228
543NorthWallF(11.5-12)	541161.449	619953.162
543SouthCenterA(11.5-12)	541135.445	619939.220
538WestWallSS(4-4.5)	541248.502	620205.218
538NorthWestWall(4-4.5)	541269.622	620215.367
538EastWallSS(4-4.5)	541255.542	620245.721
538SB-1(4-4.5)	541259.382	620255.504
538SB-2(4-4.5)	541246.124	620245.812
538SB-3(4-4.5)	541241.827	620234.292
538SB-4(4-4.5)	541239.267	620220.487
538SB-5(4-4.5)	541242.742	620207.321
538SouthWallW(7-7.5)	541245.393	620228.715
543WestWallA(9-9.5)	541140.655	619922.819
538SB-1(7-7.5)	541259.382	620255.504
538SB-2(7-7.5)	541246.124	620245.812
538SB-3(7-7.5)	541241.827	620234.292
538SB-4(7-7.5)	541239.267	620220.487
538SB-5(7-7.5)	541242.742	620207.321
SPT-6(7-7.5)	541241.214	620159.980
541SOUTH WALL 7.5-8	541223.415	620304.540
541East Center 11.5-12	541222.368	620305.052
541East Center A 8.5-9	541235.158	620336.639
541East Wall 7.5-8	541259.970	620348.496
541North Wall A 7-7.5	541246.303	620280.453
541North Wall B 7-7.5	541246.269	620280.132
541North Wall C 7-7.5	541256.757	620311.461
541North Wall D 7-7.5	541257.339	620311.169
543North Wall A 7-7.5	541155.554	619954.073
543North Wall B 7-7.5	541155.842	619953.440
543East Wall WP 7-7.5	541154.297	619968.221
543North Wall C 7-7.5	541152.589	619939.641
543North Wall C 9-9.5	541152.675	619939.569
543North Wall D 7-7.5	541154.018	619938.735
543West Wall 7-7.5	541141.742	619929.256
543South Wall 7-7.5	541134.155	619953.524
543Sewer Line Trench A 7-7.5	541167.767	619943.888
543Sewer Line Trench B 7-7.5	541159.199	619923.441

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

10214 TPHC

TPHC Conformance/Non-conformance Summary Report

		Indicate Yes, No, N/A
1.	Method Detection Limits provided.	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank.	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
4.	Duplicate Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	N/A
5.	IR Spectra submitted for standards, blanks and samples.	N/A
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted.	N/A
7.	Analysis holding time met. (If not met, list number of days exceeded for each sample).	Yes

Additional comments: _____

Laboratory Manager — Date: 6/11/10

6/11/10

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 10214 **Site:** Parcel 76

	Date	Hold Time
Date Sampled	05/25/10	NA
Receipt/Refrigeration	05/25/10	NA
Analyses		
1. TPHC	05/27/10	14 Days

TPHC

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

Project #:
Location: PARCEL 76
ECP:
Work Order:

Analysis: OQA-QAM-025
Matrix: .
Inst. ID: GC TPHC INST. #1
Column Type: RTX-5, 0.32mm ID, 30 m
Injection Volume: 1 uL

Date Received: 25-May-10
Date Extracted: 27-May-10
Extraction Method: Shake
Analyst: Robert Szot

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data	Qualifiers
MB05271001	MB05271001	1.00	15.00	100.00	23	333	not detected		
LCS05271001	LCS05271001	1.00	15.00	100.00	23	333	1259.24		
1021401	541 EAST CENTER (11.5-12')	1.00	15.07	72.3	32	459	not detected		

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution
ND = not detected

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature _____

Date: 6/11/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

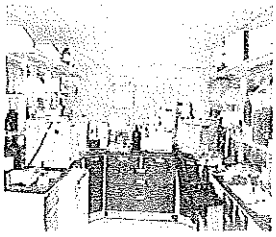
Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff 6/11/10
Laboratory Manager

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



ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: Parcel 76

PARCEL/76

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
541/South Wall (7.5-8.0')	1022401	Soil	02-Jun-10 13:10	06/02/10

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, %SOLIDS

Dean Tardiff/Date: 6/11/10
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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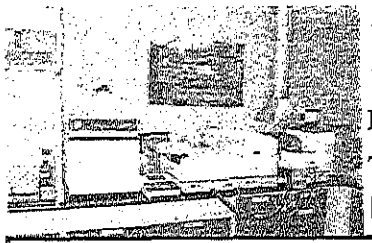
CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail: dean.tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Fort Monmouth / Applebaum
Phone #: 22 21642
( )DERA ( )OMA ( )Other:_____
Project No:
Location: Parcel 176
Samplers Name / Company:

Work Order #	Sample Location	Date	Time	Sample Type	# bottles	Analysis Parameters: TPH	Comments: Remarks / Preservation Method
10224 01	541 South wall (7.5-8')	06/02/10	13:10	Soil	1	✓	

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
[signature]	06/02/10 15:15	[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, ( )EDD
Turnaround time: ( )Standard 3 wks, (✓)Rush 1 Wk., ( )ASAP Verbal ____ Hrs.

Comments: If TPH concentration is greater than 1,000 mg/kg, run Base Neutral analysis.

print legibly

000002

SAMPLE RECEIPT FORM

Date Received: 10-2-10 Work Order ID#: 10234

Site/Proj. Name: Project 76 Cooler Temp (°C): 4/5 ac

Received By: J. Vengrin Sign: J. Vengrin
(Print name)

Check the appropriate box

1. Did the samples come in a cooler?	yes	no	n/a
2. Were samples rec'd in good condition?	yes	no	
3. Was the chain of custody filled out correctly and legibly?	yes	no	
4. Was the chain of custody signed in the appropriate place?	yes	no	
5. Did the labels agree with the chain of custody?	yes	no	
6. Were the correct containers/preservatives used?	yes	no	
7. Was a sufficient amount of sample supplied?	yes	no	
8. Were air bubbles present in VOA vials?	yes	no	n/a
9. Were samples received on ice?	yes	no	
10. Were analyze-immediately tests perform within 15 minutes	yes	no	n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

GPS POINTS

US ARMY-FT. MONMOUTH, NJ
PARCEL 76 SOIL SAMPLES
SOIL SAMPLING GPS POSITIONS & COORDINATES
US STATE PLANE 1983, NJ (NY EAST) 2900, NAD 1983 (CONUS)

Position/Description	Y Coordinate Northing	X Coordinate (Easting)
541SewerTrenchA(7-7.5)	541280.566	620294.287
541SewerTrenchB(7-7.5)	541280.468	620302.119
541SewerTrenchC(7-7.5)	541284.384	620311.908
541NorthSPT-NW(7-7.5)	541294.663	620299.965
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542NorthWallC(8-8.5)	541189.625	620059.151
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542NorthWallE(8-8.5)	541187.667	620034.678
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SPT-6(7-7.5)	541241.214	620159.980
SPT-7(7-7.5)	541260.890	620223.316
SPT-8(7-7.5)	541264.316	620234.182
SPT-9(7-7.5)	541266.861	620243.775
SPT-10(7-7.5)	541268.819	620255.522
SPT-11(7-7.5)	541271.462	620266.584
SPT-12(7-7.5)	541272.441	620276.275
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543NorthWallC(10.5-11)	541135.815	620030.534

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543NorthWallF(11.5-12)	541161.449	619953.162
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538SB-5(4-4.5)	541242.742	620207.321
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538SB-4(7-7.5)	541239.267	620220.487
538SB-5(7-7.5)	541242.742	620207.321
SPT-6(7-7.5)	541241.214	620159.980
541SOUTH WALL 7.5-8	541223.415	620304.540
541East Center 11.5-12	541222.368	620305.052
541East Center A 8.5-9	541235.158	620336.639
541East Wall 7.5-8	541259.970	620348.496
541North Wall A 7-7.5	541246.303	620280.453
541North Wall B 7-7.5	541246.269	620280.132
541North Wall C 7-7.5	541256.757	620311.461
541North Wall D 7-7.5	541257.339	620311.169
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543North Wall B 7-7.5	541155.842	619953.440
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543North Wall C 7-7.5	541152.589	619939.641
543North Wall C 9-9.5	541152.675	619939.569
543North Wall D 7-7.5	541154.018	619938.735
543West Wall 7-7.5	541141.742	619929.256
543South Wall 7-7.5	541134.155	619953.524
543Sewer Line Trench A 7-7.5	541167.767	619943.888
543Sewer Line Trench B 7-7.5	541159.199	619923.441

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

10224 TPHC

TPHC Conformance/Non-conformance Summary Report

		Indicate Yes, No, N/A
1.	Method Detection Limits provided.	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank.	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
4.	Duplicate Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	N/A
5.	IR Spectra submitted for standards, blanks and samples.	N/A
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted.	N/A
7.	Analysis holding time met. (If not met, list number of days exceeded for each sample).	Yes

Additional comments: _____

Jennifer Tidwell — Laboratory Manager

6/11/10 — Date

6/11/10

LABORATORY CHRONICLE

000010

Laboratory Chronicle

Lab ID: 10224 **Site:** Parcel 76

	Date	Hold Time
Date Sampled	06/02/10	NA
Receipt/Refrigeration	06/02/10	NA
Analyses		
1. TPHC	06/04/10	14 Days

TPHC

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	**Project #:** **Location:** **ECP:** **Work Order:**	 PARCEL 76
Analysis:	OQA-QAM-025	**Date Received:**	2-Jun-10
Matrix:	.	**Date Extracted:**	4-Jun-10
Inst. ID:	GC TPHC INST. #1	**Extraction Method:**	Shake
Column Type:	RTX-5, 0.32mm ID, 30 m	**Analyst:**	Robert Szot
Injection Volume:	1 uL		

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data	Qualifiers
MB06041001	MB06041001	1.00	15.00	100.00	23	333	not detected		
LCS06041001	LCS06041001	1.00	15.00	100.00	23	333	1207.36		
1022401	541 EAST CENTER (11.5-12')	1.00	15.17	75.9	30	434	290.38		

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution
ND = not detected

000073

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature _____

Date: 6/11/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff 6/11/12
Laboratory Manager

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

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: Parcel 76

PARCEL/76

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
543/North Wall A (7-7.5)	1024101	Soil	07-Jun-10 08:50	06/07/10
543/North Wall B (7-7.5)	1024102	Soil	07-Jun-10 09:45	06/07/10
543/East Wall WP (7-7.5)	1024103	Soil	07-Jun-10 09:50	06/07/10
543/North Wall C (7-7.5)	1024104	Soil	07-Jun-10 10:10	06/07/10
543/North Wall C (9-9.5)	1024105	Soil	07-Jun-10 10:12	06/07/10
543/North Wall D (7-7.5)	1024106	Soil	07-Jun-10 10:20	06/07/10
543/West Wall (7-7.5)	1024107	Soil	07-Jun-10 10:30	06/07/10
543/S.Line Trench A (7-7.5)	1024108	Soil	07-Jun-10 13:10	06/07/10
543/South Wall (7-7.5)	1024109	Soil	07-Jun-10 13:25	06/07/10
543/ S.Line Trench B (7-7.5)	1024110	Soil	07-Jun-10 14:25	06/07/10

ANALYSIS:

FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, %SOLIDS

Dean Tardiff/Date: 6/11/10
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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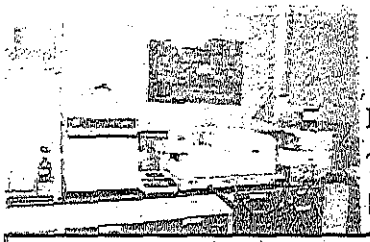
CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail: dean.tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Fort Monmouth / C. Applehans | Project No:
Phone #: 532-4292 | Location: Parcel 176
( )DERA ( )OMA ( )Other:_____
Samplers Name / Company:

Work Order #	Sample Location	Date	Time	Sample Type	# bottles	TCL	TAL Metals							Comments: Remarks / Preservation Method
10-241 01	543 NorthWall A (7-7.5')	06/07/10	08:50	Soil	1	✓	✓							
02	543 NorthWall B (7-7.5')	06/07/10	09:45	Soil	1	✓	✓							
03	543 EastWall WP (7-7.5')	06/07/10	09:50	Soil	1	✓	✓							
04	543 NorthWall C (7-7.5')	06/07/10	10:10	Soil	1	✓	✓							
05	543 NorthWall C (9-9.5')	06/07/10	10:12	Soil	1	✓	✓							
06	543 NorthWall D (7-7.5')	06/07/10	10:20	Soil	1	✓	✓							
07	543 WestWall (7-7.5')	06/07/10	10:30	Soil	1	✓	✓							
08	543 Sewerline Trench A (7-7.5')	06/07/10	13:10	Soil	1	✓	✓							
09	543 SouthWall (7-7.5')	06/07/10	13:25	Soil	1	✓	✓							
10	543 Sewerline Trench B (7-7.5')	06/07/10	14:25	Soil	1	✓	✓							

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
	06/07/10 15:00				
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 Wk., (✓)ASAP Verbal 24 Hrs.

Comments: If PCB concentration is greater than 1,000 mg/kg; run Base Neutral analysis.

000002

print legibly

new coc._1.XLS6/2/2010

SAMPLE RECEIPT FORM

Date Received: 6-7-10 Work Order ID#: 10241

Site/Proj. Name: Parcel 96 Cooler Temp (°C): ICE

Received By: J. Vaughn Sign: J. Vaughn
(Print name)

Check the appropriate box

1. Did the samples come in a cooler?	yes	no	n/a
2. Were samples rec'd in good condition?	yes	no	
3. Was the chain of custody filled out correctly and legibly?	yes	no	
4. Was the chain of custody signed in the appropriate place?	yes	no	
5. Did the labels agree with the chain of custody?	yes	no	
6. Were the correct containers/preservatives used?	yes	no	
7. Was a sufficient amount of sample supplied?	yes	no	
8. Were air bubbles present in VOA vials?	yes	no	n/a
9. Were samples received on Ice?	yes	no	
10. Were analyze-immediately tests perform within 15 minutes	yes	no	n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

GPS POINTS

US ARMY-FT. MONMOUTH, NJ
PARCEL 76 SOIL SAMPLES
SOIL SAMPLING GPS POSITIONS & COORDINATES
US STATE PLANE 1983, NJ (NY EAST) 2900, NAD 1983 (CONUS)

Position/Description	Y Coordinate Northing	X Coordinate (Easting)
541SewerTrenchA(7-7.5)	541280.566	620294.287
541SewerTrenchB(7-7.5)	541280.468	620302.119
541SewerTrenchC(7-7.5)	541284.384	620311.908
541NorthSPT-NW(7-7.5)	541294.663	620299.965
541NorthSPT-WW(7-7.5)	541289.670	620293.994
541NorthSPT-EW(7-7.5)	541290.649	620304.468
541SewerTrenchB(9-9.5)	541283.992	620299.965
542NorthWallA(7-7.5)	541187.079	620048.579
542EastWall(7-7.5)	541188.156	620069.332
542WestWall(7-7.5)	541175.626	620029.392
542SouthWall(7-7.5)	541169.165	620053.277
542NorthWallB(8-8.5)	541184.045	620036.734
542NorthWallC(8-8.5)	541189.625	620059.151
542SewerPipeTrenchA(7-7.5)	541207.441	620053.767
542SewerPipeTrenchB(7-7.5)	541199.316	620034.580
542NorthWallD(8-8.5)	541195.204	620060.326
542NorthWallE(8-8.5)	541187.667	620034.678
542NorthWallF(11-11.5)	541200.393	620059.249
542NorthWallG(11-11.5)	541191.289	620033.601
542NorthWallH(7-7.5)	541204.994	620057.683
542NorthWallI(8-8.5)	541204.994	620057.683
542NorthWallJ(7-7.5)	541195.988	620033.601
542NorthWallK(8-8.5)	541195.988	620033.601
SPT-1(7-7.5)	541258.443	620212.254
SPT-2(7-7.5)	541255.016	620199.626
SPT-3(7-7.5)	541250.807	620191.501
SPT-4(7-7.5)	541247.674	620181.907
SPT-5(7-7.5)	541244.150	620171.335
SPT-6(7-7.5)	541241.214	620159.980
SPT-7(7-7.5)	541260.890	620223.316
SPT-8(7-7.5)	541264.316	620234.182
SPT-9(7-7.5)	541266.861	620243.775
SPT-10(7-7.5)	541268.819	620255.522
SPT-11(7-7.5)	541271.462	620266.584
SPT-12(7-7.5)	541272.441	620276.275
543WestWallA(7-7.5)	541140.655	619922.819
543NorthWallC(10.5-11)	541135.815	620030.534

543SouthCenterA(9-9.5)	541136.884	619937.670
543SouthCenterB(9-9.5)	541143.412	619958.695
543SouthCenterA(11.5-12)	541137.326	619939.773
543WestWallB(9-9.5)	541138.654	619915.318
543NorthWallE(11.5-12)	541158.572	619937.228
543NorthWallF(11.5-12)	541161.449	619953.162
543SouthCenterA(11.5-12)	541135.445	619939.220
538WestWallSS(4-4.5)	541248.502	620205.218
538NorthWestWall(4-4.5)	541269.622	620215.367
538EastWallSS(4-4.5)	541255.542	620245.721
538SB-1(4-4.5)	541259.382	620255.504
538SB-2(4-4.5)	541246.124	620245.812
538SB-3(4-4.5)	541241.827	620234.292
538SB-4(4-4.5)	541239.267	620220.487
538SB-5(4-4.5)	541242.742	620207.321
538SouthWallW(7-7.5)	541245.393	620228.715
543WestWallA(9-9.5)	541140.655	619922.819
538SB-1(7-7.5)	541259.382	620255.504
538SB-2(7-7.5)	541246.124	620245.812
538SB-3(7-7.5)	541241.827	620234.292
538SB-4(7-7.5)	541239.267	620220.487
538SB-5(7-7.5)	541242.742	620207.321
SPT-6(7-7.5)	541241.214	620159.980
541SOUTH WALL 7.5-8	541223.415	620304.540
541East Center 11.5-12	541222.368	620305.052
541East Center A 8.5-9	541235.158	620336.639
541East Wall 7.5-8	541259.970	620348.496
541North Wall A 7-7.5	541246.303	620280.453
541North Wall B 7-7.5	541246.269	620280.132
541North Wall C 7-7.5	541256.757	620311.461
541North Wall D 7-7.5	541257.339	620311.169
543North Wall A 7-7.5	541155.554	619954.073
543North Wall B 7-7.5	541155.842	619953.440
543East Wall WP 7-7.5	541154.297	619968.221
543North Wall C 7-7.5	541152.589	619939.641
543North Wall C 9-9.5	541152.675	619939.569
543North Wall D 7-7.5	541154.018	619938.735
543West Wall 7-7.5	541141.742	619929.256
543South Wall 7-7.5	541134.155	619953.524
543Sewer Line Trench A 7-7.5	541167.767	619943.888
543Sewer Line Trench B 7-7.5	541159.199	619923.441

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

10241 TPHC

TPHC Conformance/Non-conformance Summary Report

		Indicate Yes, No, N/A
1.	Method Detection Limits provided.	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank.	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
4.	Duplicate Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	N/A
5.	IR Spectra submitted for standards, blanks and samples.	N/A
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted.	N/A
7.	Analysis holding time met. (If not met, list number of days exceeded for each sample).	Yes

Additional comments: _____

Laboratory Manager

6/11/10
Date

6/11/10

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 10241 **Site:** Parcel 76

	Date	Hold Time
Date Sampled	06/07/10	NA
Receipt/Refrigeration	06/07/10	NA
Analyses		
1. TPHC	06/08/10	14 Days

TPHC

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

Project #:
Location: PARCEL 76
ECP:
Work Order:

Analysis: OQA-QAM-025
Matrix:
Inst. ID: GC TPHC INST. #1
Column Type: RTX-5, 0.32mm ID, 30 m
Injection Volume: 1 uL

Date Received: 7-Jun-10
Date Extracted: 8-Jun-10 8-Jun-10
Extraction Method: Shake
Analyst: Robert Szot

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data	Qualifiers
MB06081001	MB06081001	1.00	15.00	100.00	23	333	not detected		
LCS06081001	LCS06081001	1.00	15.00	100.00	23	333	1042.93		
1024101	543 NORTH WALL A (7-7.5')	1.00	15.06	82.3	28	403	not detected		
1024102	543 NORTH WALL B (7-7.5')	1.00	15.31	81.9	28	399	114.54		J
1024103	543 EAST WALL WP (7-7.5')	1.00	15.18	85.1	27	387	not detected		
1024104	543 NORTH WALL C (7-7.5')	1.00	15.10	80.5	29	411	9944.55	E	
1024104	543 NORTH WALL C (7-7.5')	2.00	15.10	80.5	58	823	9778.34		D
1024105	543 NORTH WALL C (9-9.5')	1.00	15.05	66.0	35	503	1093.33		
1024106	543 NORTH WALL D (7-7.5')	1.00	15.25	85.2	27	385	not detected		
1024107	543 WEST WALL (7-7.5')	1.00	15.12	83.6	28	396	9353.78	E	
1024107	543 WEST WALL (7-7.5')	2.00	15.12	83.6	55	791	9835.33		D
1024108	543 SEWER LINE TRENCH A (7-7.5')	1.00	15.08	80.0	29	414	488.47		
1024109	543 SOUTH WALL (7-7.5')	1.00	15.23	82.2	28	399	not detected		
1024110	543 SEWER LINE TRENCH B (7-7.5')	1.00	15.18	84.5	27	390	255.39		J

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution
ND = not detected

000013

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

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It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature _____

Date: 6/11/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

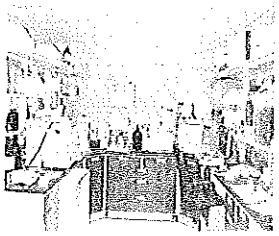
Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff
Laboratory Manager

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



ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: Parcel 76

PARCEL/76

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
541/North Wall A (7-7.5)	1024701	Soil	08-Jun-10 10:30	06/08/10
541/North Wall B (7-7.5)	1024702	Soil	08-Jun-10 10:32	06/08/10
541/ North Wall C (7-7.5)	1024703	Soil	08-Jun-10 10:40	06/08/10
541/ North Wall D (7-7.5)	1024704	Soil	08-Jun-10 10:42	06/08/10
542/North Wall A (9-9.5)	1024705	Soil	08-Jun-10 13:10	06/08/10
542/East Wall (7-7.5)	1024706	Soil	08-Jun-10 13:15	06/08/10
542/West Wall (7-7.5)	1024707	Soil	08-Jun-10 13:20	06/08/10
542/South Wall (7-7.5)	1024708	Soil	08-Jun-10 13:25	06/08/10
542/North Wall B (8-8.5)	1024709	Soil	08-Jun-10 13:28	06/08/10
542/ North Wall C (8-8.5)	1024710	Soil	08-Jun-10 14:10	06/08/10

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, %SOLIDS

Dean Tardiff/Date: 6/11/10
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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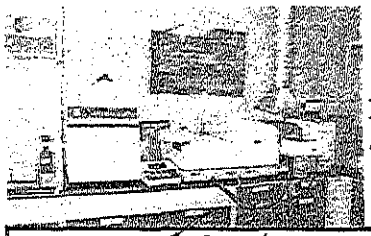
CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail: dean.tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Fort Monmouth / Applebay
Phone #: 732 532 6042
( )DERA ( )OMA ( )Other:
Project No:
Location: Parcel 76
Samplers Name / Company: Robert Gaebler / TCS

Work Order #	Sample Location	Date	Time	Sample Type	# bottles	Analysis Parameters: PAH	Analysis Parameters: TAL Metals	Comments: Remarks / Preservation Method
10247 01	541 NorthWall A (7-7.5')	06/08/10	10:30	Soil	1	✓	✓	
02	541 NorthWall B (7-7.5')	06/08/10	10:32	Soil	1	✓	✓	
03	541 NorthWall C (7-7.5')	06/08/10	10:40	Soil	1	✓	✓	
04	541 NorthWall D (7-7.5')	06/08/10	10:42	Soil	1	✓	✓	
05	542 NorthWall A (7-7.5')	06/08/10	13:10	Soil	1	✓	✓	
06	542 EastWall (7-7.5')	06/08/10	13:15	Soil	1	✓	✓	
07	542 WestWall (7-7.5')	06/08/10	13:20	Soil	1	✓	✓	
08	542 SouthWall (7-7.5')	06/08/10	13:25	Soil	1	✓	✓	
09	542 NorthWall B (8-8.5')	06/08/10	13:28	Soil	1	✓	✓	
10	542 NorthWall C (8-8.5')	06/08/10	14:10	Soil	1	✓	✓	

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
	06/08/10 15:10				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: ( )Full, (1)Reduced, ( )Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: ( )Standard 3 wks, ( )Rush Wk., ( )ASAP Verbal 24 Hrs.

Comments:

200002

print legibly

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SAMPLE RECEIPT FORM

Date Received: 6-8-10 Work Order ID#: 102404

Site/Proj. Name: Parcel 16 Cooler Temp (°C): 5.0°C

Received By: J Vaughan Sign: J Vaughan
(Print name)

Check the appropriate box

1. Did the samples come in a cooler?	yes	no	n/a
2. Were samples rec'd in good condition?	yes	no	
3. Was the chain of custody filled out correctly and legibly?	yes	no	
4. Was the chain of custody signed in the appropriate place?	yes	no	
5. Did the labels agree with the chain of custody?	yes	no	
6. Were the correct containers/preservatives used?	yes	no	
7. Was a sufficient amount of sample supplied?	yes	no	
8. Were air bubbles present in VOA vials?	yes	no	n/a
9. Were samples received on ice?	yes	no	
10. Were analyze-immediately tests perform within 15 minutes	yes	no	n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

GPS POINTS

US ARMY-FT. MONMOUTH, NJ
PARCEL 76 SOIL SAMPLES
SOIL SAMPLING GPS POSITIONS & COORDINATES
US STATE PLANE 1983, NJ (NY EAST) 2900, NAD 1983 (CONUS)

Position/Description	Y Coordinate Northing	X Coordinate (Easting)
541SewerTrenchA(7-7.5)	541280.566	620294.287
541SewerTrenchB(7-7.5)	541280.468	620302.119
541SewerTrenchC(7-7.5)	541284.384	620311.908
541NorthSPT-NW(7-7.5)	541294.663	620299.965
541NorthSPT-WW(7-7.5)	541289.670	620293.994
541NorthSPT-EW(7-7.5)	541290.649	620304.468
541SewerTrenchB(9-9.5)	541283.992	620299.965
542NorthWallA(7-7.5)	541187.079	620048.579
542EastWall(7-7.5)	541188.156	620069.332
542WestWall(7-7.5)	541175.626	620029.392
542SouthWall(7-7.5)	541169.165	620053.277
542NorthWallB(8-8.5)	541184.045	620036.734
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SPT-10(7-7.5)	541268.819	620255.522
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543NorthWallC(10.5-11)	541135.815	620030.534

543SouthCenterA(9-9.5)	541136.884	619937.670
543SouthCenterB(9-9.5)	541143.412	619958.695
543SouthCenterA(11.5-12)	541137.326	619939.773
543WestWallB(9-9.5)	541138.654	619915.318
543NorthWallE(11.5-12)	541158.572	619937.228
543NorthWallF(11.5-12)	541161.449	619953.162
543SouthCenterA(11.5-12)	541135.445	619939.220
538WestWallSS(4-4.5)	541248.502	620205.218
538NorthWestWall(4-4.5)	541269.622	620215.367
538EastWallSS(4-4.5)	541255.542	620245.721
538SB-1(4-4.5)	541259.382	620255.504
538SB-2(4-4.5)	541246.124	620245.812
538SB-3(4-4.5)	541241.827	620234.292
538SB-4(4-4.5)	541239.267	620220.487
538SB-5(4-4.5)	541242.742	620207.321
538SouthWallW(7-7.5)	541245.393	620228.715
543WestWallA(9-9.5)	541140.655	619922.819
538SB-1(7-7.5)	541259.382	620255.504
538SB-2(7-7.5)	541246.124	620245.812
538SB-3(7-7.5)	541241.827	620234.292
538SB-4(7-7.5)	541239.267	620220.487
538SB-5(7-7.5)	541242.742	620207.321
SPT-6(7-7.5)	541241.214	620159.980
541SOUTH WALL 7.5-8	541223.415	620304.540
541East Center 11.5-12	541222.368	620305.052
541East Center A 8.5-9	541235.158	620336.639
541East Wall 7.5-8	541259.970	620348.496
541North Wall A 7-7.5	541246.303	620280.453
541North Wall B 7-7.5	541246.269	620280.132
541North Wall C 7-7.5	541256.757	620311.461
541North Wall D 7-7.5	541257.339	620311.169
543North Wall A 7-7.5	541155.554	619954.073
543North Wall B 7-7.5	541155.842	619953.440
543East Wall WP 7-7.5	541154.297	619968.221
543North Wall C 7-7.5	541152.589	619939.641
543North Wall C 9-9.5	541152.675	619939.569
543North Wall D 7-7.5	541154.018	619938.735
543West Wall 7-7.5	541141.742	619929.256
543South Wall 7-7.5	541134.155	619953.524
543Sewer Line Trench A 7-7.5	541167.767	619943.888
543Sewer Line Trench B 7-7.5	541159.199	619923.441

CONFORMANCE/ NON-CONFORMANCE SUMMARY

10247 TPHC

TPHC Conformance/Non-conformance Summary Report

		Indicate Yes, No, N/A
1.	Method Detection Limits provided.	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank.	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
4.	Duplicate Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	N/A
5.	IR Spectra submitted for standards, blanks and samples.	N/A
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted.	N/A
7.	Analysis holding time met. (If not met, list number of days exceeded for each sample).	Yes

Additional comments: _____

Laboratory Manager — Date: 6/11/10

6/11/10

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 10247 **Site:** Parcel 76

	Date	Hold Time
Date Sampled	06/08/10	NA
Receipt/Refrigeration	06/08/10	NA
Analyses		
1. TPHC	06/09/10	14 Days

TPHC

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

Project #:
Location: PARCEL 76
ECP:
Work Order:

Analysis: OQA-QAM-025
Matrix:
Inst. ID: GC TPHC INST. #1
Column Type: RTX-5, 0.32mm ID, 30 m
Injection Volume: 1 uL

Date Received: 8-Jun-10
Date Extracted: 9-Jun-10
Extraction Method: Shake
Analyst: Robert Szot

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data	Qualifiers
MB06091001	MB06091001	1.00	15.00	100.00	23	333	not detected		
LCS06091001	LCS06091001	1.00	15.00	100.00	23	333	1133.21		
1024701	541 NORTH WALL A (7-7.5')	1.00	15.14	82.7	28	399	not detected		
1024702	541 NORTH WALL B (7-7.5')	1.00	15.19	81.6	28	403	462.41		
1024703	541 NORTH WALL C (7-7.5')	1.00	15.09	89.0	26	372	337.91		J
1024704	541 NORTH WALL D (7-7.5')	1.00	15.07	75.4	31	440	288.49		J
1024705	542 NORTH WALL A (7-7.5')	1.00	15.21	86.4	27	380	285.16		J
1024706	542 EAST WALL (7-7.5')	1.00	15.09	91.5	25	362	288.47		J
1024707	542 WEST WALL (7-7.5')	1.00	15.15	82.0	28	402	315.98		J
1024708	542 SOUTH WALL (7-7.5')	1.00	15.20	77.9	30	422	not detected		
1024709	542 NORTH WALL B (8-8.5')	1.00	15.25	76.6	30	428	2510.00		
1024710	542 NORTH WALL C (8-8.5')	1.00	15.04	76.1	31	437	not detected		

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution
ND = not detected

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LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature Jean Tang

Date: 6/10/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

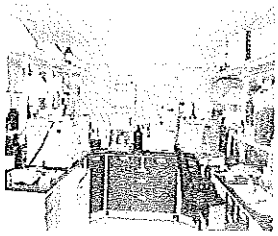
I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff 6/10/10

Dean Tardiff
Laboratory Manager

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



ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: Parcel 76

PARCEL/76

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
543/West Wall A (7.0-7.5')	1025301	Soil	09-Jun-10 10:30	06/09/10
543/West Wall A (9.0-9.5')	1025302	Soil	09-Jun-10 10:32	06/09/10
542/Sewer Pipe Trench A (7-7.5')	1025303	Soil	09-Jun-10 13:50	06/09/10
542/ Sewer Pipe Trench B (7-7.5')	1025304	Soil	09-Jun-10 14:00	06/09/10
543/North Wall C (10.5-11.0')	1025305	Soil	09-Jun-10 15:20	06/09/10

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, %SOLIDS

Dean Tardiff/Date: 6/30/10
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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MS/MSD Results Summary	22
LCS Summary	23
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Laboratory Deliverables Checklist	42
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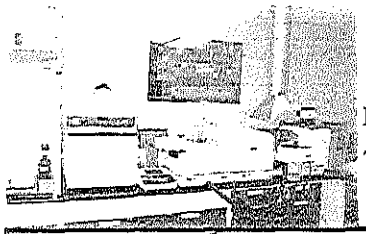
CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

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Tel (732)532-4359 Fax (732)532-6263 EMail: dean.tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Fort Monmouth / C. Appelt
Phone #: x32692
( )DERA ( )OMA ( )Other:
Project No:
Location: Parcel 76
Samplers Name / Company: Robert Yoakas / TVS

Work Order #	Sample Location	Date	Time	Sample Type	# bottles	TPH	SVOC (Base Neutral)							Comments: Remarks / Preservation Method
10253 01	543 West Wall A (7-7.5')	06/09/10	10:30	Soil	1	✓	✓							
02	543 West Wall A (9-9.5')	06/09/10	10:32	Soil	1	✓	✓							
03	542 Sewer Pipe Trench A (7-7.5')	06/09/10	13:50	Soil	1	✓	✓							
04	542 Sewer Pipe Trench B (7-7.5')	06/09/10	14:00	Soil	1	✓	✓							
05	543 North Wall C (10.5-11')	06/09/10	15:20	Soil	1	✓	✓							

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
	06/09/10 15:10				
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 Wk., (✓)ASAP Verbal 24 Hrs.

Comments: If TPH exceeds 1,000 mg/kg, run Base Neutral analysis.

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SAMPLE RECEIPT FORM

Date Received: 6-9-10 Work Order ID#: 10253

Site/Proj. Name: Parcel 76 Cooler Temp (°C): 5.5°C

Received By: J. Vergara Sign: J. Vergara
(Print name)

Check the appropriate box

1. Did the samples come in a cooler?	yes	no	n/a
2. Were samples rec'd in good condition?	yes	no	
3. Was the chain of custody filled out correctly and legibly?	yes	no	
4. Was the chain of custody signed in the appropriate place?	yes	no	
5. Did the labels agree with the chain of custody?	yes	no	
6. Were the correct containers/preservatives used?	yes	no	
7. Was a sufficient amount of sample supplied?	yes	no	
8. Were air bubbles present in VOA vials?	yes	no	n/a
9. Were samples received on ice?	yes	no	
10. Were analyze-immediately tests perform within 15 minutes	yes	no	n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

GPS POINTS

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543SouthCenterA(11.5-12)	541135.445	619939.220
538WestWallSS(4-4.5)	541248.502	620205.218
538NorthWestWall(4-4.5)	541269.622	620215.367
538EastWallSS(4-4.5)	541255.542	620245.721
538SB-1(4-4.5)	541259.382	620255.504
538SB-2(4-4.5)	541246.124	620245.812
538SB-3(4-4.5)	541241.827	620234.292
538SB-4(4-4.5)	541239.267	620220.487
538SB-5(4-4.5)	541242.742	620207.321
538SouthWallW(7-7.5)	541245.393	620228.715
543WestWallA(9-9.5)	541140.655	619922.819
538SB-1(7-7.5)	541259.382	620255.504
538SB-2(7-7.5)	541246.124	620245.812
538SB-3(7-7.5)	541241.827	620234.292
538SB-4(7-7.5)	541239.267	620220.487
538SB-5(7-7.5)	541242.742	620207.321
SPT-6(7-7.5)	541241.214	620159.980
541SOUTH WALL 7.5-8	541223.415	620304.540
541East Center 11.5-12	541222.368	620305.052
541East Center A 8.5-9	541235.158	620336.639
541East Wall 7.5-8	541259.970	620348.496
541North Wall A 7-7.5	541246.303	620280.453
541North Wall B 7-7.5	541246.269	620280.132
541North Wall C 7-7.5	541256.757	620311.461
541North Wall D 7-7.5	541257.339	620311.169
543North Wall A 7-7.5	541155.554	619954.073
543North Wall B 7-7.5	541155.842	619953.440
543East Wall WP 7-7.5	541154.297	619968.221
543North Wall C 7-7.5	541152.589	619939.641
543North Wall C 9-9.5	541152.675	619939.569
543North Wall D 7-7.5	541154.018	619938.735
543West Wall 7-7.5	541141.742	619929.256
543South Wall 7-7.5	541134.155	619953.524
543Sewer Line Trench A 7-7.5	541167.767	619943.888
543Sewer Line Trench B 7-7.5	541159.199	619923.441
538SouthWallE(7-7.5)	541249.855	620240.322

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

10253 TPHC

TPHC Conformance/Non-conformance Summary Report

		Indicate Yes, No, N/A
1.	Method Detection Limits provided.	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank.	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
4.	Duplicate Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	N/A
5.	IR Spectra submitted for standards, blanks and samples.	N/A
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted.	N/A
7.	Analysis holding time met. (If not met, list number of days exceeded for each sample).	Yes

Additional comments: _____

Laboratory Manager — Date 6/30/10

6/29/10

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 10253 **Site:** Parcel 76

	Date	Hold Time
Date Sampled	06/09/10	NA
Receipt/Refrigeration	06/09/10	NA
Analyses		
1. TPHC	06/10/10	14 Days

TPHC

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

Project #:
Location: PARCEL 76
ECP:
Work Order:

Analysis: OQA-QAM-025
Matrix: .
Inst. ID: GC TPHC INST. #1
Column Type: RTX-5, 0.32mm ID, 30 m
Injection Volume: 1 uL

Date Received: 9-Jun-10
Date Extracted: 10-Jun-10
Extraction Method: Shake
Analyst: Robert Szot

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data	Qualifiers
MB06101001	MB06101001	1.00	15.00	100.00	23	333	not detected		
LCS06101001	LCS06101001	1.00	15.00	100.00	23	333	890.48		
1025301	543 WEST WALL A (7-7.5')	1.00	15.02	82.9	28	402	not detected		
1025302	543 WEST WALL A (9-9.5')	1.00	15.01	83.5	28	399	1281.62		
1025303	542 SEWER PIPE TRENCH A (7-7.5')	1.00	15.02	78.2	30	426	not detected		
1025304	542 SEWER PIPE TRENCH B (7-7.5')	1.00	15.12	78.7	29	420	not detected		
1025305	543 NORTH WALL C (10.5-11')	1.00	15.07	82.8	28	401	2354.88		

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution
ND = not detected

000013

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature Jean Lee

Date: 6/30/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff
Laboratory Manager

6/30/10

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

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: Parcel 76

PARCEL 76

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
543-South Ctr. A/9-9.5'	1025801	Soil	10-Jun-10 11:10	06/10/10
543- South Ctr. B/9-9.5'	1025802	Soil	10-Jun-10 11:15	06/10/10
543-Overburden A	1025803	Soil	10-Jun-10 13:15	06/10/10
542- Overburden A	1025804	Soil	10-Jun-10 13:20	06/10/10
541- Overburden A	1025805	Soil	10-Jun-10 13:25	06/10/10

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, %SOLIDS

Dean Tardiff/Date: 6/15/10
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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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: dean.tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Fort Monmouth Dipple **Project No:**

Phone #: X220142 **Location:** Parcel 76

( )DERA ( )OMA ( )Other:_____

Samplers Name / Company:

Work Order #	Sample Location	Date	Time	Sample Type	# bottles	TPH	Total Arsenic							Comments: Remarks / Preservation Method
10258 01	543 South Center A (4-9.5')	06/10/10	11:10	Soil	1	✓	✓							
02	543 South Center B (9-9.5')	06/10/10	11:15	Soil	1	✓	✓							
03	543 Overburden A	06/10/10	13:15	Soil	1	✓	✓							
04	542 Overburden A	06/10/10	13:20	Soil	1	✓	✓							
05	541 Overburden A	06/10/10	13:25	Soil	1	✓	✓							

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
	06/10/10 15:25				
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 Wk., (✓)ASAP Verbal 24 Hrs.

Comments: If TPH concentration exceeds 1,000 mg/kg, run Base Neutral analysis.

000002

print legibly

new coc._1.XLS6/2/2010

SAMPLE RECEIPT FORM

Date Received: 6-10-10 Work Order ID#: 10258

Site/Proj. Name: Parcel 76 Cooler Temp (°C): 5.0°C

Received By: T. Vergara Sign:
(Print name)

Check the appropriate box

1. Did the samples come in a cooler?	yes	no	n/a
2. Were samples rec'd in good condition?	yes	no	
3. Was the chain of custody filled out correctly and legibly?	yes	no	
4. Was the chain of custody signed in the appropriate place?	yes	no	
5. Did the labels agree with the chain of custody?	yes	no	
6. Were the correct containers/preservatives used?	yes	no	
7. Was a sufficient amount of sample supplied?	yes	no	
8. Were air bubbles present in VOA vials?	yes	no	n/a
9. Were samples received on ice?	yes	no	
10. Were analyze-immediately tests perform within 15 minutes	yes	no	n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

GPS POINTS

US ARMY-FT. MONMOUTH, NJ
PARCEL 76 SOIL SAMPLES
SOIL SAMPLING GPS POSITIONS & COORDINATES
US STATE PLANE 1983, NJ (NY EAST) 2900, NAD 1983 (CONUS)

Position/Description	Y Coordinate Northing	X Coordinate (Easting)
541SewerTrenchA(7-7.5)	541280.566	620294.287
541SewerTrenchB(7-7.5)	541280.468	620302.119
541SewerTrenchC(7-7.5)	541284.384	620311.908
541NorthSPT-NW(7-7.5)	541294.663	620299.965
541NorthSPT-WW(7-7.5)	541289.670	620293.994
541NorthSPT-EW(7-7.5)	541290.649	620304.468
541SewerTrenchB(9-9.5)	541283.992	620299.965
542NorthWallA(7-7.5)	541187.079	620048.579
542EastWall(7-7.5)	541188.156	620069.332
542WestWall(7-7.5)	541175.626	620029.392
542SouthWall(7-7.5)	541169.165	620053.277
542NorthWallB(8-8.5)	541184.045	620036.734
542NorthWallC(8-8.5)	541189.625	620059.151
542SewerPipeTrenchA(7-7.5)	541207.441	620053.767
542SewerPipeTrenchB(7-7.5)	541199.316	620034.580
542NorthWallD(8-8.5)	541195.204	620060.326
542NorthWallE(8-8.5)	541187.667	620034.678
542NorthWallF(11-11.5)	541200.393	620059.249
542NorthWallG(11-11.5)	541191.289	620033.601
542NorthWallH(7-7.5)	541204.994	620057.683
542NorthWallI(8-8.5)	541204.994	620057.683
542NorthWallJ(7-7.5)	541195.988	620033.601
542NorthWallK(8-8.5)	541195.988	620033.601
SPT-1(7-7.5)	541258.443	620212.254
SPT-2(7-7.5)	541255.016	620199.626
SPT-3(7-7.5)	541250.807	620191.501
SPT-4(7-7.5)	541247.674	620181.907
SPT-5(7-7.5)	541244.150	620171.335
SPT-6(7-7.5)	541241.214	620159.980
SPT-7(7-7.5)	541260.890	620223.316
SPT-8(7-7.5)	541264.316	620234.182
SPT-9(7-7.5)	541266.861	620243.775
SPT-10(7-7.5)	541268.819	620255.522
SPT-11(7-7.5)	541271.462	620266.584
SPT-12(7-7.5)	541272.441	620276.275
543WestWallA(7-7.5)	541140.655	619922.819
543NorthWallC(10.5-11)	541135.815	620030.534

543SouthCenterA(9-9.5)	541136.884	619937.670
543SouthCenterB(9-9.5)	541143.412	619958.695
543SouthCenterA(11.5-12)	541137.326	619939.773
543WestWallB(9-9.5)	541138.654	619915.318
543NorthWallE(11.5-12)	541158.572	619937.228
543NorthWallF(11.5-12)	541161.449	619953.162
543SouthCenterA(11.5-12)	541135.445	619939.220
538WestWallSS(4-4.5)	541248.502	620205.218
538NorthWestWall(4-4.5)	541269.622	620215.367
538EastWallSS(4-4.5)	541255.542	620245.721
538SB-1(4-4.5)	541259.382	620255.504
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541North Wall B 7-7.5	541246.269	620280.132
541North Wall C 7-7.5	541256.757	620311.461
541North Wall D 7-7.5	541257.339	620311.169
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543North Wall B 7-7.5	541155.842	619953.440
543East Wall WP 7-7.5	541154.297	619968.221
543North Wall C 7-7.5	541152.589	619939.641
543North Wall C 9-9.5	541152.675	619939.569
543North Wall D 7-7.5	541154.018	619938.735
543West Wall 7-7.5	541141.742	619929.256
543South Wall 7-7.5	541134.155	619953.524
543Sewer Line Trench A 7-7.5	541167.767	619943.888
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METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

10258 TPHC

TPHC Conformance/Non-conformance Summary Report

		Indicate Yes, No, N/A
1.	Method Detection Limits provided.	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank.	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
4.	Duplicate Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	N/A
5.	IR Spectra submitted for standards, blanks and samples.	N/A
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted.	N/A
7.	Analysis holding time met. (If not met, list number of days exceeded for each sample).	Yes

Additional comments: _____

Dan Tall
Laboratory Manager

6/14/10
Date

6/14/10

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 10258 **Site:** Parcel 76

	Date	Hold Time
Date Sampled	06/10/10	NA
Receipt/Refrigeration	06/10/10	NA
Analyses		
1. TPHC	06/11/10	14 Days

TPHC

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

Project #:
Location: PARCEL 76
ECP:
Work Order:

Analysis: OQA-QAM-025
Matrix: .
Inst. ID: GC TPHC INST. #1
Column Type: RTX-5, 0.32mm ID, 30 m
Injection Volume: 1 uL

Date Received: 10-Jun-10
Date Extracted: 11-Jun-10
Extraction Method: Shake
Analyst: Robert Szot

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data Qualifiers	
MB06111001	MB06111001	1.00	15.00	100.00	23	333	not detected		
LCS06111001	LCS06111001	1.00	15.00	100.00	23	333	883.21		
1025801	543 SOUTH CENTER A (9-9.5')	1.00	15.01	63.2	37	527	4104.09		
1025802	543 SOUTH CENTER B (9-9.5')	1.00	15.00	61.7	38	540	579.46		
1025803	543 OVERBURDEN A	1.00	15.00	93.4	25	357	72.56		J
1025804	542 OVERBURDEN A	1.00	15.00	82.9	28	402	186.68		J
1025805	541 OVERBURDEN A	1.00	15.00	89.2	26	374	523.11		

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution
ND = not detected

000013

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

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It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature Jeanne Turck

Date: 6/15/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E -- Appendix A, Section IV -- Reduced Data Deliverables -- Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff 6/15/10
Dean Tardiff
Laboratory Manager

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

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: Parcel 76

PARCEL/76

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
542/North Wall D (8.0-8.5')	1026001	Soil	11-Jun-10 10:30	06/11/10
542/North Wall E (8.0-8.5')	1026002	Soil	11-Jun-10 10:55	06/11/10
538/West Wall SS (4.0-4.5')	1026003	Soil	11-Jun-10 14:10	06/11/10
538/NorthWest Wall (4.0-4.5')	1026004	Soil	11-Jun-10 14:15	06/11/10
538/East Wall SS (4.0-4.5')	1026005	Soil	11-Jun-10 14:20	06/11/10

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, %SOLIDS

Dean Tardiff/Date: 6/18/10
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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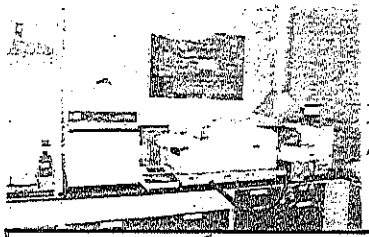
CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail: dean.tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Fort Monmouth
Phone #: 12.26092
( )DERA ( )OMA ( )Other:_____

Project No:
Location: Parcel 176

Samplers Name / Company: Robert Youngs / TUS

Work Order #	Sample Location	Date	Time	Sample Type	# bottles	TPH	TPH Methane							Comments: Remarks / Preservation Method
102600 01	542 Northwall ID (8-8.5')	06/11/10	10:30	Soil	1	✓	✓	✓						
02	542 Northwall E (8-8.5')	06/11/10	10:55	Soil	1	✓	✓	✓						
03	538 Westwall SS (4-4.5')	06/11/10	14:10	Soil	1	✓	✓	✓						
04	538 Northwest wall (4-4.5')	06/11/10	14:15	Soil	1	✓	✓	✓						
05	538 East wall SS (4-4.5')	06/11/10	14:20	Soil	1	✓	✓	✓						

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
	06/11/10 15:15				
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 Wk., (✓)ASAP Verbal 24 Hrs.

Comments: If TPH exceeds 1,000 mg/kg, run Base Neutral analysis.

print legibly

new coc._1.XLS6/2/2010

mm2

SAMPLE RECEIPT FORM

Date Received: 6-15-10 Work Order ID#: 10260

Site/Proj. Name: Hanoel Mc Cooler Temp (°C): ICE

Received By: J Vergara Sign: J Vergara
(Print name)

Check the appropriate box

1. Did the samples come in a cooler?	yes	no	n/a
2. Were samples rec'd in good condition?	yes	no	
3. Was the chain of custody filled out correctly and legibly?	yes	no	
4. Was the chain of custody signed in the appropriate place?	yes	no	
5. Did the labels agree with the chain of custody?	yes	no	
6. Were the correct containers/preservatives used?	yes	no	
7. Was a sufficient amount of sample supplied?	yes	no	
8. Were air bubbles present in VOA vials?	yes	no	n/a
9. Were samples received on ice?	yes	no	
10. Were analyze-immediately tests perform within 15 minutes	yes	no	n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

_____

_____

_____

US ARMY-FT. MONMOUTH, NJ
PARCEL 76 SOIL SAMPLES
SOIL SAMPLING GPS POSITIONS & COORDINATES
US STATE PLANE 1983, NJ (NY EAST) 2900, NAD 1983 (CONUS)

Position/Description	Y Coordinate Northing	X Coordinate (Easting)
541SewerTrenchA(7-7.5)	541280.566	620294.287
541SewerTrenchB(7-7.5)	541280.468	620302.119
541SewerTrenchC(7-7.5)	541284.384	620311.908
541NorthSPT-NW(7-7.5)	541294.663	620299.965
541NorthSPT-WW(7-7.5)	541289.670	620293.994
541NorthSPT-EW(7-7.5)	541290.649	620304.468
541SewerTrenchB(9-9.5)	541283.992	620299.965
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542WestWall(7-7.5)	541175.626	620029.392
542SouthWall(7-7.5)	541169.165	620053.277
542NorthWallB(8-8.5)	541184.045	620036.734
542NorthWallC(8-8.5)	541189.625	620059.151
542SewerPipeTrenchA(7-7.5)	541207.441	620053.767
542SewerPipeTrenchB(7-7.5)	541199.316	620034.580
542NorthWallD(8-8.5)	541195.204	620060.326
542NorthWallE(8-8.5)	541187.667	620034.678
542NorthWallF(11-11.5)	541200.393	620059.249
542NorthWallG(11-11.5)	541191.289	620033.601
542NorthWallH(7-7.5)	541204.994	620057.683
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542NorthWallJ(7-7.5)	541195.988	620033.601
542NorthWallK(8-8.5)	541195.988	620033.601
SPT-1(7-7.5)	541258.443	620212.254
SPT-2(7-7.5)	541255.016	620199.626
SPT-3(7-7.5)	541250.807	620191.501
SPT-4(7-7.5)	541247.674	620181.907
SPT-5(7-7.5)	541244.150	620171.335
SPT-6(7-7.5)	541241.214	620159.980
SPT-7(7-7.5)	541260.890	620223.316
SPT-8(7-7.5)	541264.316	620234.182
SPT-9(7-7.5)	541266.861	620243.775
SPT-10(7-7.5)	541268.819	620255.522
SPT-11(7-7.5)	541271.462	620266.584
SPT-12(7-7.5)	541272.441	620276.275
543WestWallA(7-7.5)	541140.655	619922.819
543NorthWallC(10.5-11)	541135.815	620030.534

543SouthCenterA(9-9.5)	541136.884	619937.670
543SouthCenterB(9-9.5)	541143.412	619958.695
543SouthCenterA(11.5-12)	541137.326	619939.773
543WestWallB(9-9.5)	541138.654	619915.318
543NorthWallE(11.5-12)	541158.572	619937.228
543NorthWallF(11.5-12)	541161.449	619953.162
543SouthCenterA(11.5-12)	541135.445	619939.220
538WestWallSS(4-4.5)	541248.502	620205.218
538NorthWestWall(4-4.5)	541269.622	620215.367
538EastWallSS(4-4.5)	541255.542	620245.721
538SB-1(4-4.5)	541259.382	620255.504
538SB-2(4-4.5)	541246.124	620245.812
538SB-3(4-4.5)	541241.827	620234.292
538SB-4(4-4.5)	541239.267	620220.487
538SB-5(4-4.5)	541242.742	620207.321
538SouthWallW(7-7.5)	541245.393	620228.715
543WestWallA(9-9.5)	541140.655	619922.819
538SB-1(7-7.5)	541259.382	620255.504
538SB-2(7-7.5)	541246.124	620245.812
538SB-3(7-7.5)	541241.827	620234.292
538SB-4(7-7.5)	541239.267	620220.487
538SB-5(7-7.5)	541242.742	620207.321
SPT-6(7-7.5)	541241.214	620159.980
541SOUTH WALL 7.5-8	541223.415	620304.540
541East Center 11.5-12	541222.368	620305.052
541East Center A 8.5-9	541235.158	620336.639
541East Wall 7.5-8	541259.970	620348.496
541North Wall A 7-7.5	541246.303	620280.453
541North Wall B 7-7.5	541246.269	620280.132
541North Wall C 7-7.5	541256.757	620311.461
541North Wall D 7-7.5	541257.339	620311.169
543North Wall A 7-7.5	541155.554	619954.073
543North Wall B 7-7.5	541155.842	619953.440
543East Wall WP 7-7.5	541154.297	619968.221
543North Wall C 7-7.5	541152.589	619939.641
543North Wall C 9-9.5	541152.675	619939.569
543North Wall D 7-7.5	541154.018	619938.735
543West Wall 7-7.5	541141.742	619929.256
543South Wall 7-7.5	541134.155	619953.524
543Sewer Line Trench A 7-7.5	541167.767	619943.888
543Sewer Line Trench B 7-7.5	541159.199	619923.441

GPS POINTS

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

10260 TPHC

TPHC Conformance/Non-conformance Summary Report

		Indicate Yes, No, N/A
1.	Method Detection Limits provided.	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank.	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
4.	Duplicate Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	N/A
5.	IR Spectra submitted for standards, blanks and samples.	N/A
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted.	N/A
7.	Analysis holding time met. (If not met, list number of days exceeded for each sample).	Yes

Additional comments: _____

Laboratory Manager — Date: 6/15/10

6/15/10

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 10260 **Site:** Parcel 76

	Date	Hold Time
Date Sampled	06/11/10	NA
Receipt/Refrigeration	06/11/10	NA
Analyses		
1. TPHC	06/14/10	14 Days

TPHC

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

Project #:
Location: PARCEL 76
ECP:
Work Order:

Analysis: OQA-QAM-025
Matrix:
Inst. ID: GC TPHC INST. #1
Column Type: RTX-5, 0.32mm ID, 30 m
Injection Volume: 1 uL

Date Received: 11-Jun-10
Date Extracted: 14-Jun-10
Extraction Method: Shake
Analyst: Robert Szot

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data	Qualifiers
MB06141001	MB06141001	1.00	15.00	100.00	23	333	not detected		
LCS06141001	LCS06141001	1.00	15.00	100.00	23	333	886.03		
1026001	542 NORTH WALL D (8-8.5')	1.00	15.17	78.1	30	422	5421.21		
1026002	542 NORTH WALL E (8-8.5')	1.00	15.26	79.8	29	411	1698.45		
1026003	538 WEST WALL SS (4-4.5')	1.00	15.21	88.5	26	371	not detected		
1026004	538 NORTH WEST WALL (4-4.5')	1.00	15.15	83.5	28	395	not detected		
1026005	538 EAST WALL SS (4-4.5')	1.00	15.10	88.5	26	374	3116.05		

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution
ND = not detected

000012

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature _____

Date: 6/18/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff 6/18/10
Laboratory Manager

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

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: Parcel 76

PARCEL/76

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
541/Sewer Trench A (7.0-7.5')	1026301	Soil	14-Jun-10 09:30	06/14/10
541/ Sewer Trench B (7.0-7.5')	1026302	Soil	14-Jun-10 10:00	06/14/10
541/ Sewer Trench C (7.0-7.5')	1026303	Soil	14-Jun-10 10:30	06/14/10
543/West Wall B (9.0-9.5')	1026304	Soil	14-Jun-10 15:00	06/14/10

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, %SOLIDS

Dean Tardiff/Date: 6/18/10
Laboratory Manager

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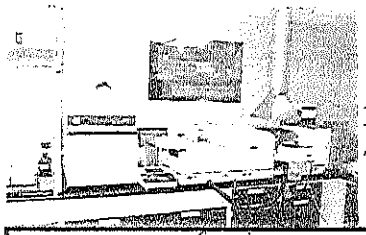
CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail: dean.tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Fort Monmouth
Phone #: 12 2692
( )DERA ( )OMA ( )Other:_____
Project No:
Location: Barrack 176
Samplers Name / Company: Robert Yauthar / FTLS

Work Order #	Sample Location	Date	Time	Sample Type	# bottles	Analysis Parameters: Ignit.	% Moisture							Comments: Remarks / Preservation Method
10263-01	54/SewerTrenchA(7-7.5')	06/14/10	09:30	Soil	1	✓	✓							
-02	54/SewerTrenchB(7-7.5')	06/14/10	10:00	Soil	1	✓	✓							
-03	54/SewerTrenchC(7-7.5')	06/14/10	10:30	Soil	1	✓	✓							
-04	543 WestWallB(9-9.5')	06/14/10	15:00	Soil	1	✓	✓							

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
	06/14/10 15:30	6/15/10 8:00			
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 Wk., (✓)ASAP Verbal 24 Hrs.

Comments: If TPH concentration exceeds 1,000 mg/kg, run Base Neutral analysis

000002

print legibly

new coc._1.XLS6/2/2010

SAMPLE RECEIPT FORM

Date Received: 6-15-10 Work Order ID#: 10263

Site/Proj. Name: PAPCE/P16 Cooler Temp (°C): ICE

Received By: J. Vergara Sign: J. Vergara
(Print name)

Check the appropriate box

1. Did the samples come in a cooler?	yes	no	n/a
2. Were samples rec'd in good condition?	yes	no	
3. Was the chain of custody filled out correctly and legibly?	yes	no	
4. Was the chain of custody signed in the appropriate place?	yes	no	
5. Did the labels agree with the chain of custody?	yes	no	
6. Were the correct containers/preservatives used?	yes	no	
7. Was a sufficient amount of sample supplied?	yes	no	
8. Were air bubbles present in VOA vials?	yes	no	n/a
9. Were samples received on ice?	yes	no	
10. Were analyze-immediately tests perform within 15 minutes	yes	no	n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

GPS POINTS

US ARMY-FT. MONMOUTH, NJ
PARCEL 76 SOIL SAMPLES
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543SouthCenterB(9-9.5)	541143.412	619958.695
543SouthCenterA(11.5-12)	541137.326	619939.773
543WestWallB(9-9.5)	541138.654	619915.318
543NorthWallE(11.5-12)	541158.572	619937.228
543NorthWallF(11.5-12)	541161.449	619953.162
543SouthCenterA(11.5-12)	541135.445	619939.220
538WestWallSS(4-4.5)	541248.502	620205.218
538NorthWestWall(4-4.5)	541269.622	620215.367
538EastWallSS(4-4.5)	541255.542	620245.721
538SB-1(4-4.5)	541259.382	620255.504
538SB-2(4-4.5)	541246.124	620245.812
538SB-3(4-4.5)	541241.827	620234.292
538SB-4(4-4.5)	541239.267	620220.487
538SB-5(4-4.5)	541242.742	620207.321
538SouthWallW(7-7.5)	541245.393	620228.715
543WestWallA(9-9.5)	541140.655	619922.819
538SB-1(7-7.5)	541259.382	620255.504
538SB-2(7-7.5)	541246.124	620245.812
538SB-3(7-7.5)	541241.827	620234.292
538SB-4(7-7.5)	541239.267	620220.487
538SB-5(7-7.5)	541242.742	620207.321
SPT-6(7-7.5)	541241.214	620159.980
541SOUTH WALL 7.5-8	541223.415	620304.540
541East Center 11.5-12	541222.368	620305.052
541East Center A 8.5-9	541235.158	620336.639
541East Wall 7.5-8	541259.970	620348.496
541North Wall A 7-7.5	541246.303	620280.453
541North Wall B 7-7.5	541246.269	620280.132
541North Wall C 7-7.5	541256.757	620311.461
541North Wall D 7-7.5	541257.339	620311.169
543North Wall A 7-7.5	541155.554	619954.073
543North Wall B 7-7.5	541155.842	619953.440
543East Wall WP 7-7.5	541154.297	619968.221
543North Wall C 7-7.5	541152.589	619939.641
543North Wall C 9-9.5	541152.675	619939.569
543North Wall D 7-7.5	541154.018	619938.735
543West Wall 7-7.5	541141.742	619929.256
543South Wall 7-7.5	541134.155	619953.524
543Sewer Line Trench A 7-7.5	541167.767	619943.888
543Sewer Line Trench B 7-7.5	541159.199	619923.441

CONFORMANCE/ NON-CONFORMANCE SUMMARY

10263 TPHC

TPHC Conformance/Non-conformance Summary Report

		Indicate Yes, No, N/A
1.	Method Detection Limits provided.	Yes
2.	Method Blank Contamination -- If yes, list the sample and the corresponding concentrations in each blank.	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
4.	Duplicate Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	N/A
5.	IR Spectra submitted for standards, blanks and samples.	N/A
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted.	N/A
7.	Analysis holding time met. (If not met, list number of days exceeded for each sample).	Yes

Additional comments: _____

Laboratory Manager — Date 6/15/10

6/15/10

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 10264 **Site:** Parcel 76

	Date	Hold Time
Date Sampled	06/14/10	NA
Receipt/Refrigeration	06/14/10	NA
Analyses		
1. TPHC	06/15/10	14 Days

TPHC

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

Project #:
Location: PARCEL 76
ECP:
Work Order:

Analysis: OQA-QAM-025
Matrix:
Inst. ID: GC TPHC INST. #1
Column Type: RTX-5, 0.32mm ID, 30 m
Injection Volume: 1 uL

Date Received: 14-Jun-10
Date Extracted: 15-Jun-10
Extraction Method: Shake
Analyst: Robert Szot

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data	Qualifiers
MB06151001	MB06151001	1.00	15.00	100.00	23	333	not detected		
LCS06151001	LCS06151001	1.00	15.00	100.00	23	333	810.53		
1026301	541 SEWER TRENCH A (7-7.5')	1.00	15.10	73.7	31	449	not detected		
1026302	541 SEWER TRENCH B (7-7.5')	1.00	15.22	82.0	28	401	2314.30		
1026303	541 SEWER TRENCH C (7-7.5')	1.00	15.16	75.3	31	438	not detected		
1026304	543 WEST WALL B (9-9.5')	1.00	15.09	91.5	25	362	not detected		

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution
ND = not detected

000042

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package <u>and</u> in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature _____

Date: 6/18/16

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff 6/18/10
Laboratory Manager

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

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: Parcel 76

PARCEL/76

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
543/North Wall E (11.5-12.0')	1026701	Soil	16-Jun-10 13:30	06/16/10
543/North Wall F (11.5-12.0')	1026702	Soil	16-Jun-10 14:00	06/16/10
543/South Center A (11.5-12.0')	1026703	Soil	16-Jun-10 14:30	06/16/10

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, %SOLIDS

Dean Tardiff/Date: 6/30/10
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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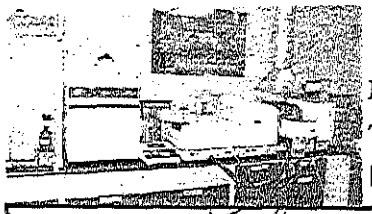
CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail: dean.tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Fort Monmouth
Phone #:
( )DERA ( )OMA ( )Other:_____
Project No:
Location: Parcel 26
Samplers Name / Company: Robert Yunhan / TVS

Work Order #	Sample Location	Date	Time	Sample Type	# bottles	TPH	TAL Metals						Comments: Remarks / Preservation Method
10207 01	543 North Wall E (11.5-12')	06/16/10	15:30	Soil	1	✓	✓						
02	543 North Wall F (11.5-12')	06/16/10	14:00	Soil	1	✓	✓						
03	543 South Center A (11.5-12')	06/16/10	14:30	Soil	1	✓	✓						

Analysis Parameters

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
	06/16/10 15:00				
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 Wk., ( )ASAP Verbal 24 Hrs.

Comments: If TPH exceeds 5,000 mg/kg, run Base Neutral analysis.

000002

print legibly

new coc._1.XLS6/2/2010

SAMPLE RECEIPT FORM

Date Received: 6-16-10 Work Order ID#: 10264

Site/Proj. Name: PAGE 1/6 Cooler Temp (°C): 3.0a

Received By: J. Venegas Sign: J. Venegas
(Print name)

Check the appropriate box

1. Did the samples come in a cooler?	yes	no	n/a
2. Were samples rec'd in good condition?	yes	no	
3. Was the chain of custody filled out correctly and legibly?	yes	no	
4. Was the chain of custody signed in the appropriate place?	yes	no	
5. Did the labels agree with the chain of custody?	yes	no	
6. Were the correct containers/preservatives used?	yes	no	
7. Was a sufficient amount of sample supplied?	yes	no	
8. Were air bubbles present in VOA vials?	yes	no	n/a
9. Were samples received on ice?	yes	no	
10. Were analyze-immediately tests perform within 15 minutes	yes	no	n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

GPS POINTS

US ARMY-FT. MONMOUTH, NJ
PARCEL 76 SOIL SAMPLES
SOIL SAMPLING GPS POSITIONS & COORDINATES
US STATE PLANE 1983, NJ (NY EAST) 2900, NAD 1983 (CONUS)

Position/Description	Y Coordinate Northing	X Coordinate (Easting)
541SewerTrenchA(7-7.5)	541280.566	620294.287
541SewerTrenchB(7-7.5)	541280.468	620302.119
541SewerTrenchC(7-7.5)	541284.384	620311.908
541NorthSPT-NW(7-7.5)	541294.663	620299.965
541NorthSPT-WW(7-7.5)	541289.670	620293.994
541NorthSPT-EW(7-7.5)	541290.649	620304.468
541SewerTrenchB(9-9.5)	541283.992	620299.965
542NorthWallA(7-7.5)	541187.079	620048.579
542EastWall(7-7.5)	541188.156	620069.332
542WestWall(7-7.5)	541175.626	620029.392
542SouthWall(7-7.5)	541169.165	620053.277
542NorthWallB(8-8.5)	541184.045	620036.734
542NorthWallC(8-8.5)	541189.625	620059.151
542SewerPipeTrenchA(7-7.5)	541207.441	620053.767
542SewerPipeTrenchB(7-7.5)	541199.316	620034.580
542NorthWallD(8-8.5)	541195.204	620060.326
542NorthWallE(8-8.5)	541187.667	620034.678
542NorthWallF(11-11.5)	541200.393	620059.249
542NorthWallG(11-11.5)	541191.289	620033.601
542NorthWallH(7-7.5)	541204.994	620057.683
542NorthWallI(8-8.5)	541204.994	620057.683
542NorthWallJ(7-7.5)	541195.988	620033.601
542NorthWallK(8-8.5)	541195.988	620033.601
SPT-1(7-7.5)	541258.443	620212.254
SPT-2(7-7.5)	541255.016	620199.626
SPT-3(7-7.5)	541250.807	620191.501
SPT-4(7-7.5)	541247.674	620181.907
SPT-5(7-7.5)	541244.150	620171.335
SPT-6(7-7.5)	541241.214	620159.980
SPT-7(7-7.5)	541260.890	620223.316
SPT-8(7-7.5)	541264.316	620234.182
SPT-9(7-7.5)	541266.861	620243.775
SPT-10(7-7.5)	541268.819	620255.522
SPT-11(7-7.5)	541271.462	620266.584
SPT-12(7-7.5)	541272.441	620276.275
543WestWallA(7-7.5)	541140.655	619922.819
543NorthWallC(10.5-11)	541135.815	620030.534

543SouthCenterA(9-9.5)	541136.884	619937.670
543SouthCenterB(9-9.5)	541143.412	619958.695
543SouthCenterA(11.5-12)	541137.326	619939.773
543WestWallB(9-9.5)	541138.654	619915.318
543NorthWallE(11.5-12)	541158.572	619937.228
543NorthWallF(11.5-12)	541161.449	619953.162
543SouthCenterA(11.5-12)	541135.445	619939.220
538WestWallSS(4-4.5)	541248.502	620205.218
538NorthWestWall(4-4.5)	541269.622	620215.367
538EastWallSS(4-4.5)	541255.542	620245.721
538SB-1(4-4.5)	541259.382	620255.504
538SB-2(4-4.5)	541246.124	620245.812
538SB-3(4-4.5)	541241.827	620234.292
538SB-4(4-4.5)	541239.267	620220.487
538SB-5(4-4.5)	541242.742	620207.321
538SouthWallW(7-7.5)	541245.393	620228.715
543WestWallA(9-9.5)	541140.655	619922.819
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538SB-2(7-7.5)	541246.124	620245.812
538SB-3(7-7.5)	541241.827	620234.292
538SB-4(7-7.5)	541239.267	620220.487
538SB-5(7-7.5)	541242.742	620207.321
SPT-6(7-7.5)	541241.214	620159.980
541SOUTH WALL 7.5-8	541223.415	620304.540
541East Center 11.5-12	541222.368	620305.052
541East Center A 8.5-9	541235.158	620336.639
541East Wall 7.5-8	541259.970	620348.496
541North Wall A 7-7.5	541246.303	620280.453
541North Wall B 7-7.5	541246.269	620280.132
541North Wall C 7-7.5	541256.757	620311.461
541North Wall D 7-7.5	541257.339	620311.169
543North Wall A 7-7.5	541155.554	619954.073
543North Wall B 7-7.5	541155.842	619953.440
543East Wall WP 7-7.5	541154.297	619968.221
543North Wall C 7-7.5	541152.589	619939.641
543North Wall C 9-9.5	541152.675	619939.569
543North Wall D 7-7.5	541154.018	619938.735
543West Wall 7-7.5	541141.742	619929.256
543South Wall 7-7.5	541134.155	619953.524
543Sewer Line Trench A 7-7.5	541167.767	619943.888
543Sewer Line Trench B 7-7.5	541159.199	619923.441
538SouthWallE(7-7.5)	541249.855	620240.322

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

10267 TPHc

TPHC Conformance/Non-conformance Summary Report

		Indicate Yes, No, N/A
1.	Method Detection Limits provided.	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank.	no
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
4.	Duplicate Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	N/A
5.	IR Spectra submitted for standards, blanks and samples.	N/A
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted.	N/A
7.	Analysis holding time met. (If not met, list number of days exceeded for each sample).	Yes

Additional comments: _____

Laboratory Manager — Date 6/30/10

6/29/10

LABORATORY CHRONICLE

000010

Laboratory Chronicle

Lab ID: 10267 **Site:** Parcel 76

	Date	Hold Time
Date Sampled	06/16/10	NA
Receipt/Refrigeration	06/16/10	NA
Analyses		
1. TPHC	06/17/10	14 Days

TPHC

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

Project #:
Location: PARCEL 76
ECP:
Work Order:

Analysis: OQA-QAM-025
Matrix:
Inst. ID: GC TPHC INST. #1
Column Type: RTX-5, 0.32mm ID, 30 m
Injection Volume: 1 uL

Date Received: 16-Jun-10
Date Extracted: 17-Jun-10
Extraction Method: Shake
Analyst: Robert Szot

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data	Qualifiers
MB06171001	MB06171001	1.00	15.00	100.00	23	333	not detected		
LCS06171001	LCS06171001	1.00	15.00	100.00	23	333	1027.43		
1026701	543 NORTH WALL E (11.5-12')	1.00	15.12	81.4	28	406	231.06		J
1026702	543 NORTH WALL F (11-.5-12')	1.00	15.18	67.3	34	489	not detected		
1026703	543 SOUTH CENTER A (11.5-12')	1.00	15.11	69.8	33	474	not detected		

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution
ND = not detected

000013

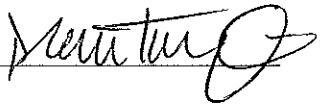
LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature 

Date: 6/20/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E-- Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff 6/30/10

Dean Tardiff
Laboratory Manager

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

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: Parcel 76

PARCEL/76

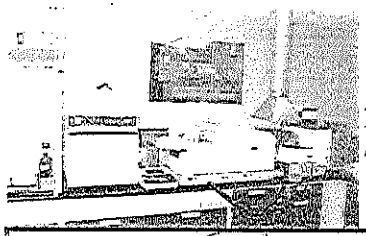
Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
542/North Wall F (11.0-11.5')	1027801	Soil	22-Jun-10 11:20	06/22/10
542/North Wall G (11.0-11.5')	1027802	Soil	22-Jun-10 13:30	06/22/10

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, %SOLIDS

Dean Tardiff/Date: 6/29/10
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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: dean.tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Fort Monmouth Phone #: 732-532-4359 Attn: Applebay
( )DERA ( )OMA ( )Other:_____

Project No:
Location: Parcel 76

Samplers Name / Company: Robert Youhas / TUS

Work Order #	Sample Location	Date	Time	Sample Type	# bottles	TPH	Pesticides							Comments: Remarks / Preservation Method
Analysis Parameters														
10278 #1	542NorthWallF(11-11.5)	06/22/10	11:20	Soil	1	✓	✓							
#2	542NorthWallG(11-11.5)	06/22/10	13:30	Soil	1	✓	✓							

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
	06/22/10 14:35				
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 Wk., (✓)ASAP Verbal 24 Hrs.

Comments: If TPH concentration exceeds 1,000 mg/kg run Base Neutral analysis.

200000

print legibly

new coc._1.XLS6/2/2010

SAMPLE RECEIPT FORM

Date Received: 6-22-10 Work Order ID#: 10276

Site/Proj. Name: Parcel 176 Cooler Temp (°C): 5.0°C

Received By: T. Vargas Sign: T. Vargas
(Print name)

Check the appropriate box

1. Did the samples come in a cooler?	yes	no	n/a
2. Were samples rec'd in good condition?	yes	no	
3. Was the chain of custody filled out correctly and legibly?	yes	no	
4. Was the chain of custody signed in the appropriate place?	yes	no	
5. Did the labels agree with the chain of custody?	yes	no	
6. Were the correct containers/preservatives used?	yes	no	
7. Was a sufficient amount of sample supplied?	yes	no	
8. Were air bubbles present in VOA vials?	yes	no	n/a
9. Were samples received on ice?	yes	no	
10. Were analyze-immediately tests perform within 15 minutes	yes	no	n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

GPS POINTS

US ARMY-FT. MONMOUTH, NJ
PARCEL 76 SOIL SAMPLES
SOIL SAMPLING GPS POSITIONS & COORDINATES
US STATE PLANE 1983, NJ (NY EAST) 2900, NAD 1983 (CONUS)

Position/Description	Y Coordinate Northing	X Coordinate (Easting)
541SewerTrenchA(7-7.5)	541280.566	620294.287
541SewerTrenchB(7-7.5)	541280.468	620302.119
541SewerTrenchC(7-7.5)	541284.384	620311.908
541NorthSPT-NW(7-7.5)	541294.663	620299.965
541NorthSPT-WW(7-7.5)	541289.670	620293.994
541NorthSPT-EW(7-7.5)	541290.649	620304.468
541SewerTrenchB(9-9.5)	541283.992	620299.965
542NorthWallA(7-7.5)	541187.079	620048.579
542EastWall(7-7.5)	541188.156	620069.332
542WestWall(7-7.5)	541175.626	620029.392
542SouthWall(7-7.5)	541169.165	620053.277
542NorthWallB(8-8.5)	541184.045	620036.734
542NorthWallC(8-8.5)	541189.625	620059.151
542SewerPipeTrenchA(7-7.5)	541207.441	620053.767
542SewerPipeTrenchB(7-7.5)	541199.316	620034.580
542NorthWallD(8-8.5)	541195.204	620060.326
542NorthWallE(8-8.5)	541187.667	620034.678
542NorthWallF(11-11.5)	541200.393	620059.249
542NorthWallG(11-11.5)	541191.289	620033.601
542NorthWallH(7-7.5)	541204.994	620057.683
542NorthWallI(8-8.5)	541204.994	620057.683
542NorthWallJ(7-7.5)	541195.988	620033.601
542NorthWallK(8-8.5)	541195.988	620033.601
SPT-1(7-7.5)	541258.443	620212.254
SPT-2(7-7.5)	541255.016	620199.626
SPT-3(7-7.5)	541250.807	620191.501
SPT-4(7-7.5)	541247.674	620181.907
SPT-5(7-7.5)	541244.150	620171.335
SPT-6(7-7.5)	541241.214	620159.980
SPT-7(7-7.5)	541260.890	620223.316
SPT-8(7-7.5)	541264.316	620234.182
SPT-9(7-7.5)	541266.861	620243.775
SPT-10(7-7.5)	541268.819	620255.522
SPT-11(7-7.5)	541271.462	620266.584
SPT-12(7-7.5)	541272.441	620276.275
543WestWallA(7-7.5)	541140.655	619922.819
543NorthWallC(10.5-11)	541135.815	620030.534

543SouthCenterA(9-9.5)	541136.884	619937.670
543SouthCenterB(9-9.5)	541143.412	619958.695
543SouthCenterA(11.5-12)	541137.326	619939.773
543WestWallB(9-9.5)	541138.654	619915.318
543NorthWallE(11.5-12)	541158.572	619937.228
543NorthWallF(11.5-12)	541161.449	619953.162
543SouthCenterA(11.5-12)	541135.445	619939.220
538WestWallSS(4-4.5)	541248.502	620205.218
538NorthWestWall(4-4.5)	541269.622	620215.367
538EastWallSS(4-4.5)	541255.542	620245.721
538SB-1(4-4.5)	541259.382	620255.504
538SB-2(4-4.5)	541246.124	620245.812
538SB-3(4-4.5)	541241.827	620234.292
538SB-4(4-4.5)	541239.267	620220.487
538SB-5(4-4.5)	541242.742	620207.321
538SouthWallW(7-7.5)	541245.393	620228.715
543WestWallA(9-9.5)	541140.655	619922.819
538SB-1(7-7.5)	541259.382	620255.504
538SB-2(7-7.5)	541246.124	620245.812
538SB-3(7-7.5)	541241.827	620234.292
538SB-4(7-7.5)	541239.267	620220.487
538SB-5(7-7.5)	541242.742	620207.321
SPT-6(7-7.5)	541241.214	620159.980
541SOUTH WALL 7.5-8	541223.415	620304.540
541East Center 11.5-12	541222.368	620305.052
541East Center A 8.5-9	541235.158	620336.639
541East Wall 7.5-8	541259.970	620348.496
541North Wall A 7-7.5	541246.303	620280.453
541North Wall B 7-7.5	541246.269	620280.132
541North Wall C 7-7.5	541256.757	620311.461
541North Wall D 7-7.5	541257.339	620311.169
543North Wall A 7-7.5	541155.554	619954.073
543North Wall B 7-7.5	541155.842	619953.440
543East Wall WP 7-7.5	541154.297	619968.221
543North Wall C 7-7.5	541152.589	619939.641
543North Wall C 9-9.5	541152.675	619939.569
543North Wall D 7-7.5	541154.018	619938.735
543West Wall 7-7.5	541141.742	619929.256
543South Wall 7-7.5	541134.155	619953.524
543Sewer Line Trench A 7-7.5	541167.767	619943.888
543Sewer Line Trench B 7-7.5	541159.199	619923.441

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

10178 TPHC

TPHC Conformance/Non-conformance Summary Report

		Indicate Yes, No, N/A
1.	Method Detection Limits provided.	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank.	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
4.	Duplicate Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	N/A
5.	IR Spectra submitted for standards, blanks and samples.	N/A
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted.	N/A
7.	Analysis holding time met. (If not met, list number of days exceeded for each sample).	Yes

Additional comments: _____

Laboratory Manager — Date 6/29/10

6/29/10

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 10278 **Site:** Parcel 76

	Date	Hold Time
Date Sampled	06/22/10	NA
Receipt/Refrigeration	06/22/10	NA
Analyses		
1. TPHC	06/23/10	14 Days

TPHC

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

Project #:
Location: PARCEL 76
ECP:
Work Order:

Analysis: OQA-QAM-025
Matrix:
Inst. ID: GC TPHC INST. #1
Column Type: RTX-5, 0.32mm ID, 30 m
Injection Volume: 1 uL

Date Received: 22-Jun-10
Date Extracted: 23-Jun-10
Extraction Method: Shake
Analyst: Robert Szot

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data	Qualifiers
MB06231001	MB06231001	1.00	15.00	100.00	23	333	not detected		
LCS06231001	LCS06231001	1.00	15.00	100.00	23	333	1221.26		
1027801	542 NORTH WALL F (11-11.5')	1.00	15.20	74.8	31	440	not detected		
1027802	542 NORTH WALL G (11-11.5')	1.00	15.21	73.2	31	449	not detected		

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution
ND = not detected

000013

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature Jean Tarapo

Date: 6/29/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff
Laboratory Manager 6/29/10

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

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: Parcel 76

PARCEL/76

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
542/North Wall H (7.0-7.5')	1028401	Soil	24-Jun-10 13:10	06/24/10
542/Overburden C	1028402	Soil	24-Jun-10 13:15	06/24/10
542/North Wall I (8.0-8.5')	1028403	Soil	24-Jun-10 13:45	06/24/10
542/ Overburden D	1028404	Soil	24-Jun-10 14:00	06/24/10
542/North Wall J (7.0-7.5')	1028405	Soil	24-Jun-10 14:30	06/24/10
542/North Wall K (8.0-8.5')	1028406	Soil	24-Jun-10 14:45	06/24/10

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, %SOLIDS

Dean Tardiff/Date: 6/30/10
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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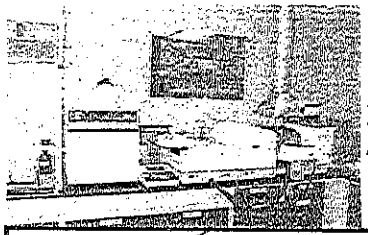
CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail: dean.tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Fort Monmouth
Phone #: X8 2642
( )DERA ( )OMA ( )Other:_____
Project No:
Location: Parcel 76
Samplers Name / Company: Robert Yonkas / TVS

Work Order #	Sample Location	Date	Time	Sample Type	# bottles	TPH	Benzene							Comments: Remarks / Preservation Method
10284 01	542 Northwall H (7-7.5')	06/24/10	13:10	Soil	1	✓	✓							
02	542 Overburden C	06/24/10	13:15	Soil	1	✓	✓							
03	542 Northwall I (8-8.5')	06/24/10	13:45	Soil	1	✓	✓							
04	542 Overburden D	06/24/10	14:00	Soil	1	✓	✓							
05	542 Northwall J (7-7.5')	06/24/10	14:30	Soil	1	✓	✓							
10	542 Northwall K (8-8.5')	06/24/10	14:45	Soil	1	✓	✓							

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
	06/24/10 15:00				
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 Wk., (✓)ASAP Verbal 24 Hrs.

Comments: If TPH exceeds 1,000 mg/kg, Risk Base Remedial Objectives.

200002

print legibly

new coc._1.XLS6/2/2010

SAMPLE RECEIPT FORM

Date Received: 6-24-10 Work Order ID#: 10484

Site/Proj. Name: Parcel 76 Cooler Temp (°C): 3.3°

Received By: Judith Wegman Sign: J. Wegman
(Print name)

Check the appropriate box

1. Did the samples come in a cooler?	yes	no	n/a
2. Were samples rec'd in good condition?	yes	no	
3. Was the chain of custody filled out correctly and legibly?	yes	no	
4. Was the chain of custody signed in the appropriate place?	yes	no	
5. Did the labels agree with the chain of custody?	yes	no	
6. Were the correct containers/preservatives used?	yes	no	
7. Was a sufficient amount of sample supplied?	yes	no	
8. Were air bubbles present in VOA vials?	yes	no	n/a
9. Were samples received on ice?	yes	no	
10. Were analyze-immediately tests perform within 15 minutes	yes	no	n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

_____

_____

_____

GPS
POINTS

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

10284 TPHC

TPHC Conformance/Non-conformance Summary Report

		Indicate Yes, No, N/A
1.	Method Detection Limits provided.	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank.	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
4.	Duplicate Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	N/A
5.	IR Spectra submitted for standards, blanks and samples.	N/A
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted.	N/A
7.	Analysis holding time met. (If not met, list number of days exceeded for each sample).	Yes

Additional comments: _____

Dean Tuttle — Laboratory Manager — 6/30/10 — Date

6/29/10

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 10284 **Site:** Parcel 76

	Date	Hold Time
Date Sampled	06/24/10	NA
Receipt/Refrigeration	06/24/10	NA
Analyses		
1. TPHC	06/28/10	14 Days

TPHC

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

Project #:
Location: PARCEL 76
ECP:
Work Order:

Analysis: OQA-QAM-025
Matrix:
Inst. ID: GC TPHC INST. #1
Column Type: RTX-5, 0.32mm ID, 30 m
Injection Volume: 1 uL

Date Received: 24-Jun-10
Date Extracted: 28-Jun-10
Extraction Method: Shake
Analyst: Robert Szot

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data Qualifiers	
MB06281001	MB06281001	1.00	15.00	100.00	23	333	not detected		
LCS06281001	LCS06281001	1.00	15.00	100.00	23	333	1221.26		
1028401	542 NORTH WALL H (11-11.5')	1.00	15.16	80.3	29	411	not detected		
1028402	542 OVERBURDEN C	1.00	15.11	93.9	25	352	not detected		
1028403	542 NORTH WALL I (8-8.5')	1.00	15.20	78.9	29	417	not detected		
1028404	542 OVERBURDEN D	1.00	15.10	88.1	26	376	not detected		
1028405	542 NORTH WALL J (7-7.5')	1.00	15.20	78.8	29	417	not detected		
1028406	542 NORTH WALL K (8-8.5')	1.00	15.18	78.6	29	419	not detected		

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution
ND = not detected

000042

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature Jean Tarca

Date: 6/30/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff 6/30/10
Laboratory Manager

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

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: Parcel 76

PARCEL/76

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
541/Sewer Trench B (9.0-9.5')	1028601	Soil	25-Jun-10 10:00	06/25/10
541/North SPT-NW (7.0-7.5)	1028602	Soil	25-Jun-10 10:20	06/25/10
541/ North SPT-WW (7.0-7.5')	1028603	Soil	25-Jun-10 10:25	06/25/10
541/ North SPT-EW (7.0-7.5)	1028604	Soil	25-Jun-10 10:30	06/25/10

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, %SOLIDS

Dean Tardiff/Date: 6/30/10
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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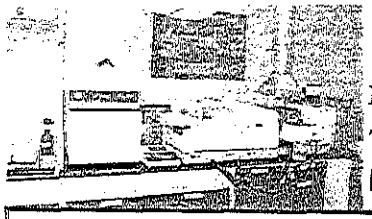
CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail: dean.tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer:
Phone #:
( )DERA ( )OMA ( )Other:_____

Project No:
Location: Parcel 76

Samplers Name / Company: Robert Youhas / TVS

Analysis Parameters: TPH, All Parameters

Work Order #	Sample Location	Date	Time	Sample Type	# bottles	Remarks / Preservation Method
102810 01	541SewerTrenchB(9-9.5')	06/25/10	10:00	Soil	1	
02	541NorthSPT-NW(7-7.5')	06/25/10	10:20	Soil	1	
03	541NorthSPT-WW(7-7.5')	06/25/10	10:25	Soil	1	
04	541NorthSPT-EW(7-7.5')	06/25/10	10:30	Soil	1	

Comments:

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
	06/25/10 15:10				
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 Wk., (✓)ASAP Verbal 24 Hrs.

Comments: If TPH exceeds 1,000 mg/kg, run Baseneutral analysis.

000002

print legibly

new coc._1.XLS6/2/2010

SAMPLE RECEIPT FORM

Date Received: 10-25-10 Work Order ID#: 10286

Site/Proj. Name: Parcel 76 Cooler Temp (°C): 3.0°C

Received By: J. Thurman Sign: J. Thurman
(Print name)

Check the appropriate box

1. Did the samples come in a cooler?	yes	no	n/a
2. Were samples rec'd in good condition?	yes	no	
3. Was the chain of custody filled out correctly and legibly?	yes	no	
4. Was the chain of custody signed in the appropriate place?	yes	no	
5. Did the labels agree with the chain of custody?	yes	no	
6. Were the correct containers/preservatives used?	yes	no	
7. Was a sufficient amount of sample supplied?	yes	no	
8. Were air bubbles present in VOA vials?	yes	no	n/a
9. Were samples received on ice?	yes	no	
10. Were analyze-immediately tests perform within 15 minutes	yes	no	n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

GPS
POINTS

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

10286 VOA

TPHC Conformance/Non-conformance Summary Report

		Indicate Yes, No, N/A
1.	Method Detection Limits provided.	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank.	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
4.	Duplicate Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	N/A
5.	IR Spectra submitted for standards, blanks and samples.	N/A
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted.	N/A
7.	Analysis holding time met. (If not met, list number of days exceeded for each sample).	Yes

Additional comments: _____

Laboratory Manager — Date 6/30/10

6/29/10

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 10286 **Site:** Parcel 76

	Date	Hold Time
Date Sampled	06/25/10	NA
Receipt/Refrigeration	06/25/10	NA
Analyses		
1. TPHC	06/28/10	14 Days

TPHC

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

Project #:
Location: PARCEL 76
ECP:
Work Order:

Analysis: OQA-QAM-025
Matrix:
Inst. ID: GC TPHC INST. #1
Column Type: RTX-5, 0.32mm ID, 30 m
Injection Volume: 1 uL

Date Received: 25-Jun-10
Date Extracted: 28-Jun-10
Extraction Method: Shake
Analyst: Robert Szot

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data	Qualifiers
MB06281001	MB06281001	1.00	15.00	100.00	23	333	not detected		
LCS06281001	LCS06281001	1.00	15.00	100.00	23	333	1198.46		
1028601	541 SEWER TRENCH B (9-9.5')	1.00	15.08	75.4	31	440	163.60		J
1028602	541 NORTH SPT-NW (7-7.5')	1.00	15.24	75.3	30	436	not detected		
1028603	541 NORTH SPT-WW (7-7.5')	1.00	15.28	75.1	31	436	311.71		J
1028604	541 NORTH SPT-EW (7-7.5')	1.00	15.25	76.8	30	427	not detected		

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution
ND = not detected

000012

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

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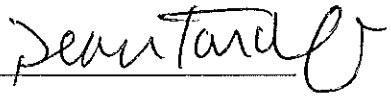
1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature 

Date: 6/30/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff
Laboratory Manager 6/30/10

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

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: Parcel 76

PARCEL/76

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
SPT-1 (7.0-7.5)	1029001	Soil	28-Jun-10 10:10	06/28/10
SPT-2 (7.0-7.5)	1029002	Soil	28-Jun-10 10:15	06/28/10

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, %SOLIDS

Dean Tardiff/Date: 6/30/10
Laboratory Manager

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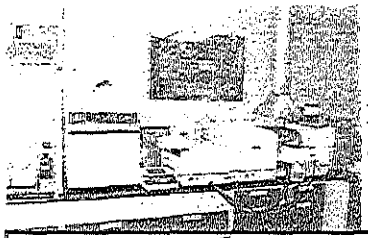
CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail: dean.tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Fort Monmouth
Phone #: 8224092
( )DERA ( )OMA ( )Other:_____

Project No:
Location: Parcel 176

Samplers Name / Company: Robert Hulsey / TUS

Work Order #	Sample Location	Date	Time	Sample Type	# bottles	TPH	BTEX	Comments: Remarks / Preservation Method
1	SPT-1 (7-7.5')	06/28/10	10:10	Soil	1	✓	✓	
2	SPT-2 (7-7.5')	06/28/10	10:15	Soil	1	✓	✓	

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
	06/28/10 1540				
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 Wk., (✓)ASAP Verbal 24 Hrs.

Comments: If TPH concentration exceeds 1,000 mg/kg, run Base Neutral analysis.

000002

print legibly

new coc._1.XLS6/2/2010

SAMPLE RECEIPT FORM

Date Received: 6-28-10 Work Order ID#: 10290

Site/Proj. Name: Parcel 76 Cooler Temp (°C): 3.0

Received By: J. Vergara Sign: J. Vergara
(Print name)

Check the appropriate box

1. Did the samples come in a cooler?	yes	no	n/a
2. Were samples rec'd in good condition?	yes	no	
3. Was the chain of custody filled out correctly and legibly?	yes	no	
4. Was the chain of custody signed in the appropriate place?	yes	no	
5. Did the labels agree with the chain of custody?	yes	no	
6. Were the correct containers/preservatives used?	yes	no	
7. Was a sufficient amount of sample supplied?	yes	no	
8. Were air bubbles present in VOA vials?	yes	no	n/a
9. Were samples received on ice?	yes	no	
10. Were analyze-immediately tests perform within 15 minutes	yes	no	n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

GPS
POINTS

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

TPHC 10290

TPHC Conformance/Non-conformance Summary Report

		Indicate Yes, No, N/A
1.	Method Detection Limits provided.	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank.	NO
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
4.	Duplicate Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	N/A
5.	IR Spectra submitted for standards, blanks and samples.	N/A
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted.	N/A
7.	Analysis holding time met. (If not met, list number of days exceeded for each sample).	Yes

Additional comments: _____

_____

_____

_____ _____

Laboratory Manager Date

6/30/10

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 10290 **Site:** Parcel 76

	Date	Hold Time
Date Sampled	06/28/10	NA
Receipt/Refrigeration	06/28/10	NA
Analyses		
1. TPHC	06/29/10	14 Days

TPHC

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

Project #:
Location: PARCEL 76
ECP:
Work Order:

Analysis: OQA-QAM-025
Matrix:
Inst. ID: GC TPHC INST. #1
Column Type: RTX-5, 0.32mm ID, 30 m
Injection Vol.: 1 uL

Date Received: 28-Jun-10
Date Extracted: 29-Jun-10
Extraction Method: Shake
Analyst: Robert Szot

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data		Qualifiers
MB06291001	MB06291001	1.00	15.00	100.00	23	333	not detected			
LCS06291001	LCS06291001	1.00	15.00	100.00	23	333	1125.43			
1029001	SPT-1 (7-7.5')	1.00	15.13	81.5	28	405	241.66			J
1029002	SPT-2 (7-7.5')	1.00	15.09	80.4	29	412	not detected			

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution
ND = not detected

000013

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

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1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
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4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature Dean Tarczynski

Date: 6/30/10

Laboratory Certification # 13461

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Dean Tardiff 6/30/10
Laboratory Manager

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

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: Parcel 76

PARCEL/76

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
538/SB-1 (4.0-4.5')	1029201	Soil	29-Jun-10 09:00	06/29/10
538/SB-1 (7.0-7.5')	1029202	Soil	29-Jun-10 09:10	06/29/10
538/SB-2 (4.0-4.5')	1029203	Soil	29-Jun-10 09:30	06/29/10
538/SB-2 (7.0-7.5')	1029204	Soil	29-Jun-10 09:35	06/29/10
538/SB-3 (4.0-4.5')	1029205	Soil	29-Jun-10 10:00	06/29/10
538/SB-3 (7.0-7.5')	1029206	Soil	29-Jun-10 10:05	06/29/10
538/SB-4 (4.0-4.5')	1029207	Soil	29-Jun-10 11:00	06/29/10
538/SB-4 (7.0-7.5')	1029208	Soil	29-Jun-10 11:05	06/29/10
538/SB-5 (4.0-4.5')	1029209	Soil	29-Jun-1011:15	06/29/10
538/SB-5 (7.0-7.5')	1029210	Soil	29-Jun-10 11:20	06/29/10
SPT-3 (7.0-7.5')	1029211	Soil	29-Jun-10 13:45	06/29/10

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, %SOLIDS

Dean Tardiff/Date: 7/6/10
Laboratory Manager

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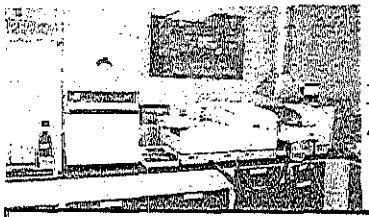
CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail: dean.tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Fort Monmouth
Phone #: X22[illegible]12
( )DERA ( )OMA ( )Other:_____
Project No:
Location: Parcel 76
Samplers Name / Company: Robert Yowhas / TVS

Work Order #	Sample Location	Date	Time	Sample Type	# bottles	TPH	8/6 Mixture							Comments: Remarks / Preservation Method
1022 01	5385B-1(4-4.5')	06/29/10	09:00	Soil	1	✓	✓							
02	5385B-1(7-7.5')	06/29/10	09:10	Soil	1	✓	✓							
03	5385B-2(4-4.5')	06/29/10	09:50	Soil	1	✓	✓							
04	5385B-2(7-7.5')	06/29/10	09:55	Soil	1	✓	✓							
05	5385B-3(4-4.5')	06/29/10	10:00	Soil	1	✓	✓							
06	5385B-3(7-7.5')	06/29/10	10:05	Soil	1	✓	✓							
07	5385B-4(4-4.5')	06/29/10	11:00	Soil	1	✓	✓							
08	5385B-4(7-7.5')	06/29/10	11:05	Soil	1	✓	✓							
09	5385B-5(4-4.5')	06/29/10	11:15	Soil	1	✓	✓							
10	5385B-5(7-7.5')	06/29/10	11:20	Soil	1	✓	✓							
11	SPT-3(7-7.5')	06/29/10	13:45	Soil	1	✓	✓							

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
[signature]	06/29/10 15:00	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
		[signature]			

Report Type: ( )Full, (1)Reduced, ( )Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: ( )Standard 3 wks, ( )Rush Wk., (1)ASAP Verbal 24 Hrs.

Comments: If TPH exceeds 1,000 mg/kg, run Base Neutral analysis.

print legibly

new coc._1.XLS6/2/2010

000002

SAMPLE RECEIPT FORM

Date Received: 6-24-10 Work Order ID#: 10292

Site/Proj. Name: Arnco 76 Cooler Temp (°C): 5.5°C

Received By: Judith Denman Sign: J. Denman
(Print name)

Check the appropriate box

1. Did the samples come in a cooler?	yes	no	n/a
2. Were samples rec'd in good condition?	yes	no	
3. Was the chain of custody filled out correctly and legibly?	yes	no	
4. Was the chain of custody signed in the appropriate place?	yes	no	
5. Did the labels agree with the chain of custody?	yes	no	
6. Were the correct containers/preservatives used?	yes	no	
7. Was a sufficient amount of sample supplied?	yes	no	
8. Were air bubbles present in VOA vials?	yes	no	n/a
9. Were samples received on ice?	yes	no	
10. Were analyze-immediately tests perform within 15 minutes	yes	no	n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

_____

_____

_____

GPS POINTS

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

TPHC 10292

TPHC Conformance/Non-conformance Summary Report

		Indicate Yes, No, N/A
1.	Method Detection Limits provided.	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank.	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
4.	Duplicate Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	N/A
5.	IR Spectra submitted for standards, blanks and samples.	N/A
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted.	N/A
7.	Analysis holding time met. (If not met, list number of days exceeded for each sample).	Yes

Additional comments: _____

Laboratory Manager

7/6/10
Date

7/1/10

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 10292 **Site:** Parcel 76

	Date	Hold Time
Date Sampled	06/29/10	NA
Receipt/Refrigeration	06/29/10	NA
Analyses		
1. TPHC	06/30/10	14 Days

TPHC

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

Project #:
Location: PARCEL 76
ECP:
Work Order:

Analysis: OQA-QAM-025
Matrix:
Inst. ID: GC TPHC INST. #1
Column Type: RTX-5, 0.32mm ID, 30 m
Injection Vol.: 1 uL

Date Received: 29-Jun-10
Date Extracted: 30-Jun-10
Extraction Method: Shake
Analyst: Robert Szot

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data		Qualifiers
MB06301001	MB06301001	1.00	15.00	100.00	23	333	not detected			
LCS06301001	LCS06301001	1.00	15.00	100.00	23	333	1199.24			
1029201	538 SB-1 (4-4.5')	1.00	15.21	84.0	27	391	449.14			
1029202	538 SB-1 (7-7.5')	1.00	15.10	75.9	31	436	not detected			
1029203	538 SB-2 (4-4.5')	1.00	15.09	83.3	28	398	2067.20			
1029204	538 SB-2 (7-7.5')	1.00	15.19	79.5	29	414	not detected			
1029205	538 SB-3 (4-4.5')	1.00	15.16	83.7	28	394	679.67			
1029206	538 SB-3 (7-7.5')	1.00	15.28	78.0	29	420	not detected			
1029207	538 SB-4 (4-4.5')	1.00	15.07	82.7	28	401	not detected			
1029208	538 SB-4 (7-7.5')	1.00	15.21	76.6	30	429	not detected			
1029209	538 SB-5 (4-4.5')	1.00	15.17	88.0	26	375	128.22			J
1029210	538 SB-5 (7-7.5')	1.00	15.39	78.4	29	414	not detected			
1029211	SPT-3 (7-7.5')	1.00	15.36	80.1	28	406	not detected			

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution
ND = not detected

000013

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package <u>and</u> in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature _____

Date: 7/6/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff
Laboratory Manager 7/6/10

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

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: Parcel 76

PARCEL/76

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
SPT (7.0-7.5')	1029901	Soil	01-Jul-10 14:00	07/01/10
SPT -4(7.0-7.5')	1029902	Soil	01-Jul-10 14:00	07/01/10
SPT-5 (7.0-7.5')	1029903	Soil	01-Jul-10 14:10	07/01/10
SPT-6 (7.0-7.5')	1029904	Soil	01-Jul-10 14:15	07/01/10

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, %SOLIDS

Dean Tardiff/Date: 7/7/10
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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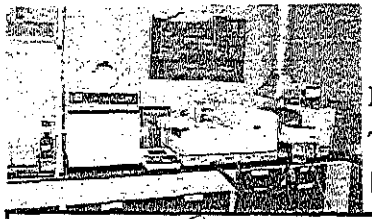
CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail: dean.tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Fort Monmouth	Project No:	Analysis Parameters								Comments:
Phone #: x22692	Location: Parcel 76	TPH	Pesticides							
( )DERA ( )OMA ( )Other:_____										
Samplers Name / Company: Robert Yunbas / FTS										

Work Order #	Sample Location	Date	Time	Sample Type	# bottles								Remarks / Preservation Method
10299 01	SPT (7-7.5') DUP	07/01/10	—	Soil	1	✓	✓						
02	SPT-4 (7-7.5') *	07/01/10	14:00	Soil	1	✓	✓						
03	SPT-5 (7-7.5')	07/01/10	14:10	Soil	1	✓	✓						
04	SPT-6 (7-7.5')	07/01/10	14:15	Soil	1	✓	✓						

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
	07/01/10 15:00				
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 Wk., (✓)ASAP Verbal 24 Hrs.

Comments: * = Dup.
TPH exceeds 1,000 mg/kg for Base Neutral analysis.

200000

print legibly

new coc._1.XLS6/2/2010

SAMPLE RECEIPT FORM

Date Received: 7-1-10 Work Order ID#: 10299

Site/Proj. Name: Parcel 76 Cooler Temp (°C): 5.0°C

Received By: Judith Vergara Sign: J. Vergara
(Print name)

Check the appropriate box

1. Did the samples come in a cooler?	yes	no	n/a
2. Were samples rec'd in good condition?	yes	no	
3. Was the chain of custody filled out correctly and legibly?	yes	no	
4. Was the chain of custody signed in the appropriate place?	yes	no	
5. Did the labels agree with the chain of custody?	yes	no	
6. Were the correct containers/preservatives used?	yes	no	
7. Was a sufficient amount of sample supplied?	yes	no	
8. Were air bubbles present in VOA vials?	yes	no	n/a
9. Were samples received on ice?	yes	no	
10. Were analyze-immediately tests perform within 15 minutes	yes	no	n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

GPS
POINTS

FIELD DUPLICATE

Field Duplicate Identification

Lab ID: 10299

Site: Parcel 76

The Field Duplicate was performed on SPT-4 (7.0-7.5') (1029902)

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 10/97
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Water

Surrogate standard spiking solution is added to a measured volume of sample, usually 1 liter. The sample is serially extracted with Methylene Chloride using a separatory funnel. The extract is concentrated and then injected directly into a GC-FID for analysis. The sample is analyzed for Total Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Integrating between peak C8 and peak C42 determines the Total Petroleum Hydrocarbon concentration. The final concentration of Total Petroleum Hydrocarbons is calculated by using the initial and final volume values.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

10299 TPHc

TPHC Conformance/Non-conformance Summary Report

		Indicate Yes, No, N/A
1.	Method Detection Limits provided.	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank.	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
4.	Duplicate Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
5.	IR Spectra submitted for standards, blanks and samples.	N/A
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted.	N/A
7.	Analysis holding time met. (If not met, list number of days exceeded for each sample).	AS 7/6/10 ~~AA~~ Yes

Additional comments: _____

_____

_____

_____ _____

Laboratory Manager Date

7/6/10

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 10299 **Site:** Parcel 76

	Date	Hold Time
Date Sampled	07/01/10	NA
Receipt/Refrigeration	07/01/10	NA
Analyses		
1. TPHC	07/02/10	14 Days

TPHC

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

Project #:
Location: PARCEL 76
ECP:
Work Order:

Analysis: OQA-QAM-025
Matrix:
Inst. ID: GC TPHC INST. #1
Column Type: RTX-5, 0.32mm ID, 30 m
Injection Vol.: 1 uL

Date Received: 1-Jul-10
Date Extracted: 2-Jul-10
Extraction Method: Shake
Analyst: Robert Szot

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data		Qualifiers
MB07021001	MB07021001	1.00	15.00	100.00	23	333	not detected			
LCS07021001	LCS07021001	1.00	15.00	100.00	23	333	1131.57			
1029901	538 SB-1 (4-4.5')	1.00	15.11	79.7	29	415	not detected			
1029902	538 SB-1 (7-7.5')	1.00	15.15	78.9	29	418	not detected			
1029903	538 SB-2 (4-4.5')	1.00	15.20	82.9	28	397	not detected			
1029904	538 SB-2 (7-7.5')	1.00	15.18	80.2	29	411	not detected			

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution
ND = not detected

000014

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature _____

Date: 7/7/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

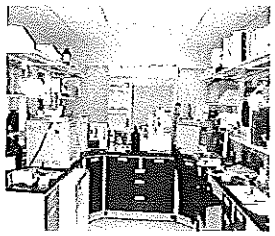
Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff 7/7/10
Laboratory Manager

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



ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: Parcel 76

PARCEL/76

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
SPT-7 (7.0-7.5')	1030401	Soil	11-Jul-10 10:45	07/12/10
SPT-8 (7.0-7.5')	1030402	Soil	11-Jul-10 10:50	07/12/10
SPT-9 (7.0-7.5')	1030403	Soil	11-Jul-10 10:55	07/12/10
538/South Wall W (7.0-7.5')	1030404	Soil	11-Jul-10 11:15	07/12/10

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, %SOLIDS

Dean Tardiff
Dean Tardiff/Date: 7/13/10
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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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: dean.tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Fort Monmouth | Project No: | Analysis Parameters | Comments:

Phone #: X22692 | Location: Parcel 76

( )DERA ( )OMA ( )Other:_____

Samplers Name / Company: Robert Kuhas / TVS

Work Order #	Sample Location	Date	Time	Sample Type	# bottles	TPH	% Moisture							Remarks / Preservation Method
10984 01	SPT-7 (7-7.5')	07/11/10	10:45	Soil	1	✓	✓							
02	SPT-8 (7-7.5')	07/11/10	10:50	Soil	1	✓	✓							
03	SPT-9 (7-7.5')	07/11/10	10:55	Soil	1	✓	✓							
04	538 South Wall W (7-7.5)	07/11/10	11:15	Soil	1	✓	✓							

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
	07/10/10 12:00	7/12/10			
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 Wk., (✓)ASAP Verbal 24 Hrs.

Comments: If TPH Exceeds 1,000 mg/kg, run Base Neutral analysis.

print legibly

new coc._1.XLS6/2/2010

2000002

SAMPLE RECEIPT FORM

Date Received: 7-12-10 Work Order ID#: 10304

Site/Proj. Name: Parcel 76 Cooler Temp (°C): ICE

Received By: J. Venegas Sign: J. Venegas
(Print name)

Check the appropriate box

1. Did the samples come in a cooler?	yes	no	n/a
2. Were samples rec'd in good condition?	yes	no	
3. Was the chain of custody filled out correctly and legibly?	yes	no	
4. Was the chain of custody signed in the appropriate place?	yes	no	
5. Did the labels agree with the chain of custody?	yes	no	
6. Were the correct containers/preservatives used?	yes	no	
7. Was a sufficient amount of sample supplied?	yes	no	
8. Were air bubbles present in VOA vials?	yes	no	n/a
9. Were samples received on ice?	yes	no	
10. Were analyze-immediately tests perform within 15 minutes	yes	no	n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

_____

_____

_____

GPS POINTS

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

10304 TPHC

TPHC Conformance/Non-conformance Summary Report

		Indicate Yes, No, N/A
1.	Method Detection Limits provided.	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank.	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
4.	Duplicate Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	N/A
5.	IR Spectra submitted for standards, blanks and samples.	N/A
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted.	N/A
7.	Analysis holding time met. (If not met, list number of days exceeded for each sample).	Yes

Additional comments: _____

Laboratory Manager — Date 7/13/10

7/13/10

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 10304 **Site:** Parcel 76

	Date	Hold Time
Date Sampled	07/11/10	NA
Receipt/Refrigeration	07/11/10	NA
Analyses		
1. TPHC	07/12/10	14 Days

TPHC

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

Project #:
Location: PARCEL 76
ECP:
Work Order:

Analysis: OQA-QAM-025
Matrix:
Inst. ID: GC TPHC INST. #1
Column Type: RTX-5, 0.32mm ID, 30 m
Injection Vol.: 1 uL

Date Received: 12-Jul-10
Date Extracted: 12-Jul-10
Extraction Method: Shake
Analyst: Robert Szot

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data		Qualifiers
MB07121001	MB07121001	1.00	15.00	100.00	23	333	not detected			
LCS07121001	LCS07121001	1.00	15.00	100.00	23	333	1245.44			
1030401	SPT-7 (7-7.5')	1.00	15.03	77.4	30	430	not detected			
1030402	SPT-8 (7-7.5')	1.00	15.18	76.6	30	430	not detected			
1030403	SPT-9 (7-7.5')	1.00	15.20	74.6	31	441	not detected			
1030404	538 SOUTH WALL W (7-7.5')	1.00	15.12	90.6	26	365	not detected			

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution
ND = not detected

000042

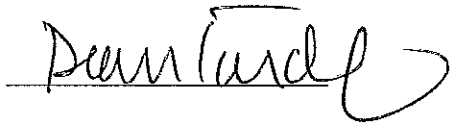
LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature 

Date: 7/13/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

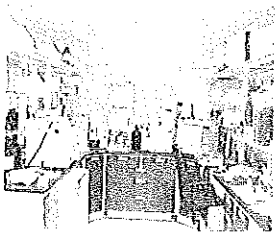
Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff
Laboratory Manager 7/13/10

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



ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: Parcel 76

PARCEL/76

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
538/South Wall E(7.0-7.5')	1031901	Soil	24-Jul-10 08:00	07/26/10
538/East Wall (4.0-4.5')	1031902	Soil	24-Jul-10 08:10	07/26/10
538/East Wall (7.0-7.5')	1031903	Soil	24-Jul-10 08:15	07/26/10
Duplicate	1031904	Soil	24-Jul-10 08:15	07/26/10
SPT-10 (7.0-7.5')	1031905	Soil	24-Jul-10 10:30	07/26/10
SPT-11 (7.0-7.5')	1031906	Soil	24-Jul-10 10:35	07/26/10
SPT-12 (7.0-7.5')	1031907	Soil	24-Jul-10 10:40	07/26/10

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB
TPHC, %SOLIDS

Dean Tardiff/Date: 7/27/10
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

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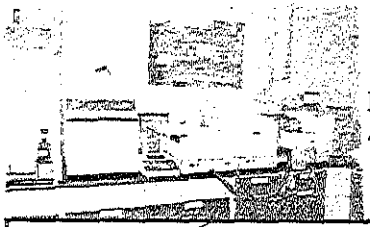
CHAIN OF CUSTODY



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail: dean.tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Fort Monmouth
Phone #: 732 532 4359
( )DERA ( )OMA ( )Other:_____
Project No:
Location: Parcel 176
Samplers Name / Company: Robert Youhas / TUS

Work Order #	Sample Location	Date	Time	Sample Type	# bottles	TPH	TAL Pesticides							Remarks / Preservation Method
10319 01	538 South Wall E (7-7.5')	07/24/10	08:00	Soil	1	✓	✓							
02	538 East Wall (4-4.5')	07/24/10	08:10	Soil	1	✓	✓							
03 *	538 East Wall (7-7.5')	07/24/10	08:15	Soil	1	✓	✓							
04	DUPLICATE	07/24/10		Soil	1	✓	✓							
05	SPT-10 (7-7.5')	07/24/10	10:30	Soil	1	✓	✓							
06	SPT-11 (7-7.5')	07/24/10	10:35	Soil	1	✓	✓							
07	SPT-12 (7-7.5')	07/24/10	10:40	Soil	1	✓	✓							

Comments:

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
	07/24/10 11:10	7/26/10 730			
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 Wk., (✓)ASAP Verbal 24 Hrs.

Comments: * DUPLICATE
If TPH exceeds 1,000 mg/kg, run Base Neutrals only 8's.

000002

print legibly

new coc._1.XLS6/2/2010

SAMPLE RECEIPT FORM

Date Received: 7-26-10 Work Order ID#: 10919

Site/Proj. Name: Ponca 1-16 Cooler Temp (°C): ICE

Received By: T. Venglar Sign:
(Print name)

Check the appropriate box

1. Did the samples come in a cooler?	yes	no	n/a
2. Were samples rec'd in good condition?	yes	no	
3. Was the chain of custody filled out correctly and legibly?	yes	no	
4. Was the chain of custody signed in the appropriate place?	yes	no	
5. Did the labels agree with the chain of custody?	yes	no	
6. Were the correct containers/preservatives used?	yes	no	
7. Was a sufficient amount of sample supplied?	yes	no	
8. Were air bubbles present in VOA vials?	yes	no	n/a
9. Were samples received on ice?	yes	no	
10. Were analyze-immediately tests perform within 15 minutes	yes	no	n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative

Comments: _____

GPS POINTS

000003A

METHOD SUMMARY

Method Summary

NJDEP Method OQA-QAM-025 02/08
Gas Chromatographic Determination of Total Petroleum Hydrocarbons in Soil

Fifteen grams (15g) of soil is added to a 125-ml acid cleaned and solvent rinsed capped Erlenmeyer flask. 15g anhydrous Sodium Sulfate is added to dry the sample. Surrogate standard spiking solution is then added to the flask.

Twenty-five ml of Methylene Chloride is added to the flask and it is secured on an orbital shaker table. The agitation rate is set to 400 rpm and the sample is shaken for 30 minutes. The flask is removed from the table and the particulate matter is allowed to settle. The extract is transferred to a Teflon capped vial. A second 25-ml of Methylene Chloride is added to the flask and shaken for an additional 30 minutes. The flask is again removed and allowed to settle. The extracts are combined in the vial then transferred to a 1-ml auto-sampler vial.

The extract is then injected directly into a GC-FID for analysis. The sample is analyzed for Petroleum Hydrocarbons covering a range of C8-C42, including Pristane and Phytane. Total Petroleum Hydrocarbon concentration is determined by integrating between 5 minutes and 22 minutes. The baseline is established by starting the integration after the end of the solvent peak and stopping after the last peak. The final concentration of Total Petroleum Hydrocarbons is calculated using percent moisture, sample weight and concentration.

CONFORMANCE/ NON-CONFORMANCE SUMMARY

10319 TPHC

TPHC Conformance/Non-conformance Summary Report

		Indicate Yes, No, N/A
1.	Method Detection Limits provided.	Yes
2.	Method Blank Contamination – If yes, list the sample and the corresponding concentrations in each blank.	No
3.	Matrix Spike Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
4.	Duplicate Results Summary Meet Criteria (If not met, list the sample and corresponding recovery which falls outside the acceptable range).	Yes
5.	IR Spectra submitted for standards, blanks and samples.	N/A
6.	Chromatograms submitted for standards, blanks and samples if GC fingerprinting was conducted.	N/A
7.	Analysis holding time met. (If not met, list number of days exceeded for each sample).	Yes

Additional comments: _____

Dean Tarvel — 7/27/10

Laboratory Manager — Date

7/27/10

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 10319 **Site:** Parcel 76

	Date	Hold Time
Date Sampled	07/24/10	NA
Receipt/Refrigeration	07/24/10	NA
Analyses		
1. TPHC	07/26/10	14 Days

TPHC

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

Project #:
Location: Parcel 76
ECP:
Work Order:

Analysis: OQA-QAM-025
Matrix:
Inst. ID: GC TPHC INST. #1
Column Type: RTX-5, 0.32mm ID, 30 m
Injection Vol.: 1 uL

Date Received: 26-Jul-10
Date Extracted: 26-Jul-10
Extraction Method: Shake
Analyst: Robert Szot

Lab ID	Field ID	Dilution Factor	Weight (g)	% Solid	MDL (mg/kg)	RL (mg/kg)	TPHC Result (mg/kg)	Data		Qualifiers
MB07261001	MB07261001	1.00	15.00	100.00	23	333	not detected			
LCS07261001	LCS07261001	1.00	15.00	100.00	23	333	1089.12			
1031901	538 SOUTH WALL E (7-7.5')	1.00	15.65	76.2	29	419	273.84			J
1031902	538 EAST WALL (4-4.5')	1.00	15.27	84.7	27	387	562.92			
1031903	538 EAST WALL (7-7.5')	1.00	15.39	77.2	29	421	331.17			J
1031904	DUPLICATE	1.00	15.46	78.0	29	415	268.94			J
1031905	SPT-10 (7-7.5)	1.00	15.59	77.1	29	416	not detected			
1031906	SPT-11 (7-7.5)	1.00	15.62	80.0	28	400	not detected			
1031907	SPT-12 (7-7.5')	1.00	15.66	82.4	27	387	not detected			

Qualifiers:
MDL = Method Detection Limit
RL = Reporting Limit
E = Result exceeds calibration limit
J = Estimated value, concentration is between MDL and RL
D = Result from dilution
ND = not detected

000011

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature Dawn Tanaka

Date: 7/24/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

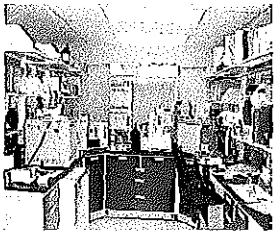
Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff
Laboratory Manager 7/27/10

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



ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: Site 200

New Wells RDI

Bldg. 200

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
Trip Blank	1034401	Aqueous	16-Aug-10 10:50	08/16/10
Field Blank	1034402	Aqueous	16-Aug-10 11:00	08/16/10
Duplicate	1034403	Aqueous	16-Aug-10 11:20	08/16/10
200MW01*	1034404	Aqueous	16-Aug-10 11:20	08/16/10
200MW02	1034405	Aqueous	16-Aug-10 11:30	08/16/10
200MW03	1034406	Aqueous	16-Aug-10 11:50	08/16/10
200MW04	1034407	Aqueous	16-Aug-10 12:10	08/16/10
200MW05	1034408	Aqueous	16-Aug-10 15:00	08/16/10
200MW06	1034409	Aqueous	16-Aug-10 15:20	08/16/10

DUP. sample is 1034404.

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB.
VOA+15

ACCUTEST LABORATORIES
BN+15

Dean Tardiff/Date: 9/7/10
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3113B
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	279.3
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

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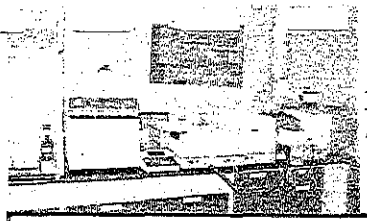
SAMPLING



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-6352 Fax (732)532-6263 EMail:dean.tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: JOE FALLON
Phone #: 732-532-6223
( )DERA ( )OMA ( )Other:_____
Project No:
Location: NEW MONITOR WELL SAMPLING
Samplers Name / Company: WALTER FUNK / TVS

Work Order #	Sample Location	Date	Time	Sample Type	# bottles	VOA+15	BN							Comments: Remarks / Preservation Method
10944.01	200 TRIPBLANK	08-16-10	10:50	AQ	2	X								
.02	200 FIELDBLANK	08-16-10	11:00	AQ	3	X	X							
.03	200 DUP.	08-16-10	—	AQ	3	X	X							
.04	200*MW#01	08-16-10	11:20	AQ	3	X	X							
.05	200 MW#02	08-16-10	11:30	AQ	3	X	X							
.06	200 MW#03	08-16-10	11:50	AQ	3	X	X							
.07	200 MW#04	08-16-10	12:10	AQ	3	X	X							
.08	200 MW#05	08-16-10	15:00	AQ	3	X	X							
.09	200 MW#06	08-16-10	15:20	AQ	3	X	X							

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
[signature]	08/16/10 15:45	[signature]			
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
		[signature]			

Report Type: ( )Full, (X)Reduced, ( )Standard, ( )Screen / non-certified, ( )EDD
Turnaround time: (X)Standard 3 wks, ( )Rush ____Wk., ( )ASAP Verbal ____Hrs.

Remarks:

200002

print legibly

COC Copy.xls7/2/2010

SAMPLE RECEIPT FORM

Date Received: 8-10-10 Work Order ID#: 10344

Site/Proj. Name: 200 / New Wells Cooler Temp (°C): ICE

Received By: J. Delgado Sign: J. Delgado
(Print name)

Check the appropriate box

1. Did the samples come in a cooler?	yes	no	n/a
2. Were samples rec'd in good condition?	yes	no	
3. Was the chain of custody filled out correctly and legibly?	yes	no	
4. Was the chain of custody signed in the appropriate place?	yes	no	
5. Did the labels agree with the chain of custody?	yes	no	
6. Were the correct containers/preservatives used?	yes	no	
7. Was a sufficient amount of sample supplied?	yes	no	
8. Were air bubbles present in VOA vials?	yes	no	n/a
9. Were samples received on ice?	yes	no	
10. Were analyze-immediately tests perform within 15 minutes	yes	no	n/a

Fill out the following table for each sample bottle

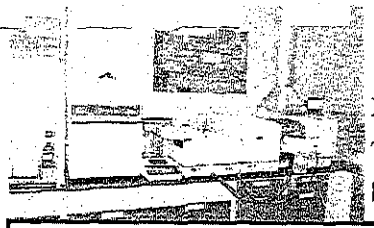
Lims ID	pH	Preservative	Sample ID	pH	Preservative
10344/1-A	N/A	HCl			

Comments: _____

_____

_____

_____



Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-4359 Fax (732)532-6263 EMail:Dean Tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: Dean Tardiff
Phone #: (732)532-4359
( )DERA ( )OMA ( )Other:_____

Project No:
Location: 200 Area

Samplers Name / Company:

Analysis Parameters: BN+15, SIMS

Comments: P.O. # C09-20650

LIMS/Work Order #	Sample Location	Date	Time	Sample Type	# bottles	BN+15	SIMS							Remarks / Preservation Method
1034402	Field Blank	8/16/2010	11:00	Aq	1	X	X							
1034403	Duplicate	8/16/2010	11:20	Aq	1	X	X							
1034404	200MW01	8/16/2010	11:20	Aq	1	X	X							
1034405	200MW02	8/16/2010	11:30	Aq	1	X	X							
1034406	200MW03	8/16/2010	11:50	Aq	1	X	X							
1034407	200MW04	8/16/2010	12:10	Aq	1	X	X							
1034408	200MW05	8/16/2010	15:00	Aq	1	X	X							
1034409	200MW06	8/16/2010	15:20	Aq	1	X	X							

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
[signature]	3-15-10 1045	[signature]			
[signature]		[signature]			

Report Type: (_)Full, (X)Reduced, (_)Standard, (_)Screen / non-certified, (_)EDD
Turnaround time: (X)Standard 3 wks, (_)Rush Wk., _(_)ASAP Verbal ____Hrs.

Comments: P.O. # C09-20650

000004

print legibly

No Seal

US ARMY FORT MONMOUTH MONITOR WELL SAMPLING

LOCATION: 200
MW #:01
NJDEP ID # NA
NJDEP CERT. # 13461
SAMPLING CONTRACTOR: TECOM-VINNELL SERVICES
SAMPLER: WALTER FUNK
DATE: 08/16/10
WEATHER: Cloudy and warm.
TIDE: N/A

Sampling Conducted in Accordance with TVS SOP SAM-0205

	TD-22.16
Initial Readings:	
Elevation of Casing Survey Mark:	7.27 ft
Depth of Well:	22.16 ft
Height of Water in Well:	14.89 ft
PID/FID Reading:	78.86/4.13 ppm
Gallons of Water to be Purged:	29 Gal.
Formula: ht.of water x (0.163 for 2" well or 0.65 for 4" well) x 3 =	29
Purge Method: Peristaltic Pump/Other (Specify)	
Purge Rate: Not to Exceed Well Draw Down of 0.5'	29/126 Gal/Min.

Purge Data:
Start Time of Purging: 9:11
End Time of Purging: 11:17

	Initial Value	Pre-Sample	Post-Sample
pH:	5.15 su	5.45 su	4.55 su
Temperature:	15.74 (°C)	15.14 (°C)	14.56 (°C)
Specific Conductivity:	3262 us/cm	3238 us/cm	3220 us/cm
ORP:	142 mv	166 mv	173 mv
DO:	2.66 mg/L	1.79 mg/L	2.65 mg/L

Depth to Water Post Purge: 9.26
Depth to Water Post Sampling: 9.58
Sampling Start Time: 11:20
Sampling End Time: 11:28

Comments: DUP HERE

US ARMY FORT MONMOUTH MONITOR WELL SAMPLING

LOCATION: 200
MW #:02
NJDEP ID # NA
NJDEP CERT. # 13461
SAMPLING CONTRACTOR: TECOM-VINNELL SERVICES
SAMPLER: WALTER FUNK
DATE: 08/16/10
WEATHER: Cloudy and warm.
TIDE: N/A

Sampling Conducted in Accordance with TVS SOP SAM-0205

	TD-22.32
Initial Readings:	
Elevation of Casing Survey Mark:	9.98 ft
Depth of Well:	22.32 ft
Height of Water in Well:	12.34 ft
PID/FID Reading:	5.89 ppm
Gallons of Water to be Purged:	24 Gal.
Formula: ht.of water x (0.163 for 2" well or 0.65 for 4" well) x 3 =	24.06
Purge Method: Peristaltic Pump/Other (Specify)	
Purge Rate: Not to Exceed Well Draw Down of 0.5'	24/104 Gal/Min.

Purge Data:
Start Time of Purging: 9:35
End Time of Purging: 11:19

	Initial Value	Pre-Sample	Post-Sample
pH:	5.02 su	4.95 su	4.87 su
Temperature:	16.95 (°C)	13.44 (°C)	13.18 (°C)
Specific Conductivity:	2721 us/cm	2796 us/cm	2769 us/cm
ORP:	110 mv	110 mv	131 mv
DO:	1.48 mg/L	1.60 mg/L	1.26 mg/L

Depth to Water Post Purge: 11.11
Depth to Water Post Sampling:
Sampling Start Time: 11:30
Sampling End Time: 11:35

Comments:

US ARMY FORT MONMOUTH MONITOR WELL SAMPLING

LOCATION: 200
MW #:03
NJDEP ID # NA
NJDEP CERT. # 13461
SAMPLING CONTRACTOR: TECOM-VINNELL SERVICES
SAMPLER: WALTER FUNK
DATE: 08/16/10
WEATHER: Cloudy and warm.
TIDE: N/A

Sampling Conducted in Accordance with TVS SOP SAM-0205

	TD-21.68
Initial Readings:	
Elevation of Casing Survey Mark:	8.65 ft
Depth of Well:	21.68 ft
Height of Water in Well:	13.03 ft
PID/FID Reading:	8.91/0.00 ppm
Gallons of Water to be Purged:	26 Gal.
Formula: ht.of water x (0.163 for 2" well or 0.65 for 4" well) x 3 =	25.4
Purge Method: Peristaltic Pump/Other (Specify)	
Purge Rate: Not to Exceed Well Draw Down of 0.5'	26/113 Gal/Min.

Purge Data:
Start Time of Purging: 9:52
End Time of Purging: 11:45

	Initial Value	Pre-Sample	Post-Sample
pH:	4.52 su	4.02 su	3.99 su
Temperature:	12.46 (°C)	11.95 (°C)	12.08 (°C)
Specific Conductivity:	3927 us/cm	3895 us/cm	3625 us/cm
ORP:	154 mv	145 mv	178 mv
DO:	1.47 mg/L	1.63 mg/L	1.24 mg/L

Depth to Water Post Purge: 9.11
Depth to Water Post Sampling: 9.29
Sampling Start Time: 11:50
Sampling End Time: 11:55

Comments:

US ARMY FORT MONMOUTH MONITOR WELL SAMPLING

LOCATION: 200
MW #:04
NJDEP ID # NA
NJDEP CERT. # 13461
SAMPLING CONTRACTOR: TECOM-VINNELL SERVICES
SAMPLER: WALTER FUNK
DATE: 08/16/10
WEATHER: Cloudy and warm.
TIDE: N/A

Sampling Conducted in Accordance with TVS SOP SAM-0205

TD-21.88

Initial Readings:

Elevation of Casing Survey Mark:	9.25 ft
Depth of Well:	21.88 ft
Height of Water in Well:	12.63 ft
PID/FID Reading:	4.11/39.16 ppm
Gallons of Water to be Purged:	25 Gal.
Formula: ht.of water x (0.163 for 2" well or 0.65 for 4" well) x 3 =	24.62
Purge Method: Peristaltic Pump/Other (Specify)	
Purge Rate: Not to Exceed Well Draw Down of 0.5'	25/109 Gal/Min.

Purge Data:

Start Time of Purging: 10:11
End Time of Purging: 12:00

	Initial Value	Pre-Sample	Post-Sample
pH:	4.84 su	4.95 su	4.67 su
Temperature:	15.51 (°C)	12.97 (°C)	13.04 (°C)
Specific Conductivity:	2651 us/cm	3106 us/cm	3056 us/cm
ORP:	112 mv	98 mv	116 mv
DO:	1.15 mg/L	1.70 mg/L	1.58 mg/L

Depth to Water Post Purge: 9.82
Depth to Water Post Sampling: 9.94
Sampling Start Time: 12:10
Sampling End Time: 12:16

Comments:

US ARMY FORT MONMOUTH MONITOR WELL SAMPLING

LOCATION: 200
MW #:05
NJDEP ID # NA
NJDEP CERT. # 13461
SAMPLING CONTRACTOR: TECOM-VINNELL SERVICES
SAMPLER: WALTER FUNK
DATE: 08/16/10
WEATHER: Cloudy and hot.
TIDE: N/A

Sampling Conducted in Accordance with TVS SOP SAM-0205

	TD-21.87
Initial Readings:	
Elevation of Casing Survey Mark:	8.97 ft
Depth of Well:	21.87 ft
Height of Water in Well:	12.90 ft
PID/FID Reading:	398/179 ppm
Gallons of Water to be Purged:	25 Gal.
Formula: ht.of water x (0.163 for 2" well or 0.65 for 4" well) x 3 =	25.15
Purge Method: Peristaltic Pump/Other (Specify)	
Purge Rate: Not to Exceed Well Draw Down of 0.5'	25/109 Gal/Min.

Purge Data:
Start Time of Purging: 13:06
End Time of Purging: 14:55

	Initial Value	Pre-Sample	Post-Sample
pH:	5.02 su	4.72 su	4.24 su
Temperature:	16.33 (°C)	13.51 (°C)	13.56 (°C)
Specific Conductivity:	2379 us/cm	2295 us/cm	2292 us/cm
ORP:	76 mv	147 mv	154 mv
DO:	1.13 mg/L	1.83 mg/L	1.76 mg/L

Depth to Water Post Purge: 10.88
Depth to Water Post Sampling:
Sampling Start Time: 15:00
Sampling End Time:

Comments:

US ARMY FORT MONMOUTH MONITOR WELL SAMPLING

LOCATION: 200
MW #:06
NJDEP ID # NA
NJDEP CERT. # 13461
SAMPLING CONTRACTOR: TECOM-VINNELL SERVICES
SAMPLER: WALTER FUNK
DATE: 08/16/10
WEATHER: Cloudy and hot.
TIDE: N/A

Sampling Conducted in Accordance with TVS SOP SAM-0205

TD-21.78

Initial Readings:

Elevation of Casing Survey Mark:	9.00 ft
Depth of Well:	21.78 ft
Height of Water in Well:	2 ft
PID/FID Reading:	18.17/135 ppm
Gallons of Water to be Purged:	Gal.
Formula: ht.of water x (0.163 for 2" well or 0.65 for 4" well) x 3 =	24.92
Purge Method: Peristaltic Pump/Other (Specify)	
Purge Rate: Not to Exceed Well Draw Down of 0.5'	25/109 Gal/Min.

Purge Data:

Start Time of Purging: 13:25
End Time of Purging: 15:14

	Initial Value	Pre-Sample	Post-Sample
pH:	4.14 su	4.41 su	4.12 su
Temperature:	18.66 (°C)	15.51 (°C)	15.36 (°C)
Specific Conductivity:	2929 us/cm	3322 us/cm	3377 us/cm
ORP:	128 mv	111 mv	146 mv
DO:	1.79 mg/L	1.64 mg/L	1.62 mg/L

Depth to Water Post Purge: 10.20
Depth to Water Post Sampling: 10.39
Sampling Start Time: 15:20
Sampling End Time:

Comments:

000010

CONFORMANCE/ NON-CONFORMANCE SUMMARY

10344 VOA

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

	Indicate Yes, No, N/A
1. Chromatograms labeled/Compounds identified (Field samples and method blanks)	Yes
2. Retention times for chromatograms provided	Yes
3. GC/MS Tune Specifications	
a. BFB Meet Criteria	Yes
b. DFTPP Meet Criteria	N/A
4. GC/MS Tuning Frequency – Performed every 24 hours for 600 series and 12 hours for 8000 series	Yes
5. GC/MS Calibration – Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series	Yes
6. GC/MS Calibration requirements	
a. Calibration Check Compounds Meet Criteria	Yes
b. System Performance Check Compounds Meet Criteria	Yes
7. Blank Contamination – If yes, List compounds and concentrations in each blank:	No
a. VOA Fraction_____	
b. B/N Fraction_____	
c. Acid Fraction_____	
8. Surrogate Recoveries Meet Criteria	Yes
If not met, list those compounds and their recoveries, which fall outside the acceptable range:	
a. VOA Fraction_____	
b. B/N Fraction_____	
c. Acid Fraction_____	
If not met, were the calculations checked and the results qualified as "estimated"?	
9. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria (If not met, list those compounds and their recoveries, which fall outside the acceptable range)	No
a. VOA Fraction See MS/MSD report footnotes	
b. B/N Fraction_____	
c. Acid Fraction_____	

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT (cont.)

Indicate
Yes, No, N/A

10. Internal Standard Area/Retention Time Shift Meet Criteria — Yes
(If not met, list those compounds, which fall outside the acceptable range)

a. VOA Fraction_____
b. B/N Fraction_____
c. Acid Fraction_____

11. Extraction Holding Time Met — N/A

If not met, list the number of days exceeded for each sample:_____

12. Analysis Holding Time Met — Yes

If not met, list the number of days exceeded for each sample:_____

Additional Comments:

Laboratory Manager: [signature] Date: 9/7/10

[signature] 8/20/10

ACCUTEST Laboratories

2

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Fort Monmouth Environmental Testing Lab.	**Job No**	JA54212
Site:	New Wells Area 200	**Report Date**	9/2/2010 4:09:58 PM

On 08/18/2010, 7 Sample(s), 0 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 2.4 C. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of JA54212 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Extractables by GCMS By Method SW846 8270C

Matrix AQ **Batch ID:** OP45229

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA54125-1MS, JA54125-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Dimethyl phthalate are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Dimethyl phthalate are outside control limits. Probable cause due to matrix interference.
- OP45229-MS for Dimethyl phthalate: Outside of in house control limits.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix AQ **Batch ID:** OP45229A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA54125-1MS, JA54125-1MSD were used as the QC samples indicated.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 10344 **Site:** Site 200

	Date	Hold Time
Date Sampled	08/16/10	NA
Receipt/Refrigeration	08/16/10	NA

Analyses

1. Volatiles	08/20/10	14 Days
2. Semi-Volatiles	08/25,31-09/01/10	7 Days

VOLATILE ORGANICS

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

U: The compound was analyzed for but not detected.

B: Indicates that the compound was found in the associated method blank as well as in the sample.

J: Indicates an estimated value. This flag is used:

(1) When the mass spec and retention time data indicate the presence of a compound however the result is less than the reporting limit but greater than the MDL.

(2) When estimating the concentration of a tentatively identified compound (TIC), where a 1:1 response is assumed.

D: This flag is used to identify all compounds (target or TIC) that required a dilution.

E: Indicates the compound's concentration exceeds the calibration range of the instrument for that specific analysis.

N: This flag is only used for TICs. It indicates the presumptive evidence of a compound. For a generic characterization of a TIC, such as unknown hydrocarbon, the flag is not used.

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VA7208.D	Sample Name	MB08191002
Operator	ROBERTS	Field ID	METHOD 624 8/19/10
Date Acquired	20 Aug 2010 1:46 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result		Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not	detected	5	3.21 ug/L	5.00 ug/L	
107131	Acrylonitrile			not	detected	2	0.98 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not	detected	100	1.64 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not	detected	70	0.11 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not	detected	20000	0.17 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not	detected	1000	0.17 ug/L	0.50 ug/L	
74-87-3	Chloromethane			not	detected	nle	0.27 ug/L	0.50 ug/L	
75-01-4	Vinyl Chloride			not	detected	1	0.22 ug/L	0.50 ug/L	
74-83-9	Bromomethane			not	detected	10	0.37 ug/L	0.50 ug/L	
75-00-3	Chloroethane			not	detected	nle	0.32 ug/L	0.50 ug/L	
75-69-4	Trichlorofluoromethane			not	detected	2000	0.15 ug/L	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not	detected	1	0.15 ug/L	0.50 ug/L	
67-64-1	Acetone			not	detected	6000	0.32 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not	detected	700	0.12 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not	detected	3	0.26 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not	detected	100	0.14 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not	detected	50	0.12 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not	detected	7000	0.20 ug/L	1.00 ug/L	
78-93-3	2-Butanone			not	detected	300	0.22 ug/L	0.50 ug/L	
156-59-2	cis-1,2-Dichloroethene			not	detected	70	0.12 ug/L	0.50 ug/L	
67-66-3	Chloroform			not	detected	70	0.35 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not	detected	30	0.12 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not	detected	1	0.12 ug/L	0.50 ug/L	
71-43-2	Benzene			not	detected	1	0.12 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not	detected	2	0.11 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not	detected	1	0.11 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not	detected	1	0.12 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not	detected	1	0.12 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not	detected	nle	0.24 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not	detected	1	0.13 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not	detected	nle	0.15 ug/L	0.50 ug/L	
108-88-3	Toluene			not	detected	1000	0.12 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not	detected	1	0.13 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not	detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not	detected	1	0.14 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not	detected	nle	0.17 ug/L	1.00 ug/L	
126-48-1	Dibromochloromethane			not	detected	1	0.12 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not	detected	50	0.12 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not	detected	700	0.12 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not	detected	1	0.13 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not	detected	nle	0.30 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not	detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not	detected	100	0.14 ug/L	0.50 ug/L	
75-25-2	Bromoform			not	detected	4	0.14 ug/L	0.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not	detected	1	0.14 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not	detected	600	0.16 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not	detected	75	0.15 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not	detected	600	0.13 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

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8/26/2010 2:55 PM

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

MB08191002

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 10344

Matrix: (soil/water) WATER Lab Sample ID: MB08191002

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA7208.D

Level: (low/med) LOW Date Received: 8/16/2010

% Moisture: not dec. Date Analyzed: 8/20/2010

GC Column: RTX-VM 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	VA7213.D	Sample Name	1034401
Operator	ROBERTS	Field ID	200 TRIP BLANK
Date Acquired	20 Aug 2010 4:20 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	3.21 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	0.98 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.64 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.11 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.17 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.17 ug/L	0.50 ug/L	
74-87-3	Chloromethane			not detected	nle	0.27 ug/L	0.50 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	0.50 ug/L	
74-83-9	Bromomethane			not detected	10	0.37 ug/L	0.50 ug/L	
75-00-3	Chloroethane			not detected	nle	0.32 ug/L	0.50 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.15 ug/L	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.15 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.32 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.12 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.26 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.14 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.12 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	1.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.22 ug/L	0.50 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.12 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.35 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.12 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.12 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.12 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.11 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.11 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.12 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.24 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.15 ug/L	0.50 ug/L	
108-88-3	Toluene			not detected	1000	0.12 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.14 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.17 ug/L	1.00 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.12 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.12 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.13 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.30 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.14 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	0.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.14 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.16 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.15 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.13 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

200 TRIP BLANK

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 10344

Matrix: (soil/water) WATER Lab Sample ID: 1034401

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA7213.D

Level: (low/med) LOW Date Received: 8/16/2010

% Moisture: not dec. Date Analyzed: 8/20/2010

GC Column: RTX-VM 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	VA7214.D	Sample Name	1034402
Operator	ROBERTS	Field ID	200 FIELD BLANK
Date Acquired	20 Aug 2010 4:51 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	3.21 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	0.98 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.64 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.11 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.17 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.17 ug/L	0.50 ug/L	
74-87-3	Chloromethane			not detected	nle	0.27 ug/L	0.50 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	0.50 ug/L	
74-83-9	Bromomethane			not detected	10	0.37 ug/L	0.50 ug/L	
75-00-3	Chloroethane			not detected	nle	0.32 ug/L	0.50 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.15 ug/L	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.15 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.32 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.12 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.26 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.14 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.12 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	1.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.22 ug/L	0.50 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.12 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.35 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.12 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.12 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.12 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.11 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.11 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.12 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.24 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.15 ug/L	0.50 ug/L	
108-88-3	Toluene			not detected	1000	0.12 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.14 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.17 ug/L	1.00 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.12 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.12 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.13 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.30 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.14 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	0.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.14 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.16 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.15 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.13 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

200 FIELD BLANK

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 10344

Matrix: (soil/water) WATER Lab Sample ID: 1034402

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA7214.D

Level: (low/med) LOW Date Received: 8/16/2010

% Moisture: not dec. Date Analyzed: 8/20/2010

GC Column: RTX-VM 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	VA7215.D	Sample Name	1034403
Operator	ROBERTS	Field ID	200 DUP
Date Acquired	20 Aug 2010 5:21 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	3.21 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	0.98 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.64 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.11 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.17 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.17 ug/L	0.50 ug/L	
74-87-3	Chloromethane			not detected	nle	0.27 ug/L	0.50 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	0.50 ug/L	
74-83-9	Bromomethane			not detected	10	0.37 ug/L	0.50 ug/L	
75-00-3	Chloroethane			not detected	nle	0.32 ug/L	0.50 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.15 ug/L	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.15 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.32 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.12 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.26 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.14 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.12 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	1.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.22 ug/L	0.50 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.12 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.35 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.12 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.12 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.12 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.11 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.11 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.12 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.24 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.15 ug/L	0.50 ug/L	
108-88-3	Toluene			not detected	1000	0.12 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.14 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.17 ug/L	1.00 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.12 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.12 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.13 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.30 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.14 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	0.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.14 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.16 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.15 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.13 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

200 DUP

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 10344

Matrix: (soil/water) WATER Lab Sample ID: 1034403

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA7215.D

Level: (low/med) LOW Date Received: 8/16/2010

% Moisture: not dec. Date Analyzed: 8/20/2010

GC Column: RTX-VM 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	VA7210.D	Sample Name	1034404
Operator	ROBERTS	Field ID	200 MW#01
Date Acquired	20 Aug 2010 2:47 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	3.21 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	0.98 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.64 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.11 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.17 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.17 ug/L	0.50 ug/L	
74-87-3	Chloromethane			not detected	nle	0.27 ug/L	0.50 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	0.50 ug/L	
74-83-9	Bromomethane			not detected	10	0.37 ug/L	0.50 ug/L	
75-00-3	Chloroethane			not detected	nle	0.32 ug/L	0.50 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.15 ug/L	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.15 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.32 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.12 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.26 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.14 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.12 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	1.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.22 ug/L	0.50 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.12 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.35 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.12 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.12 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.12 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.11 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.11 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.12 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.24 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.15 ug/L	0.50 ug/L	
108-88-3	Toluene			not detected	1000	0.12 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.14 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.17 ug/L	1.00 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.12 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.12 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.13 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.30 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.14 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	0.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.14 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.16 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.15 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.13 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

200 MW#01

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 10344

Matrix: (soil/water) WATER Lab Sample ID: 1034404

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA7210.D

Level: (low/med) LOW Date Received: 8/16/2010

% Moisture: not dec. Date Analyzed: 8/20/2010

GC Column: RTX-VM 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	VA7216.D	Sample Name	1034405
Operator	ROBERTS	Field ID	200 MW#02
Date Acquired	20 Aug 2010 5:52 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result		Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not	detected	5	3.21 ug/L	5.00 ug/L	
107131	Acrylonitrile			not	detected	2	0.98 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not	detected	100	1.64 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether	8.01	23405	0.38	ug/L	70	0.11 ug/L	0.50 ug/L	J
108203	Di-isopropyl ether			not	detected	20000	0.17 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not	detected	1000	0.17 ug/L	0.50 ug/L	
74-87-3	Chloromethane			not	detected	nle	0.27 ug/L	0.50 ug/L	
75-01-4	Vinyl Chloride			not	detected	1	0.22 ug/L	0.50 ug/L	
74-83-9	Bromomethane			not	detected	10	0.37 ug/L	0.50 ug/L	
75-00-3	Chloroethane			not	detected	nle	0.32 ug/L	0.50 ug/L	
75-69-4	Trichlorofluoromethane			not	detected	2000	0.15 ug/L	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not	detected	1	0.15 ug/L	0.50 ug/L	
67-64-1	Acetone			not	detected	6000	0.32 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not	detected	700	0.12 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not	detected	3	0.26 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not	detected	100	0.14 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not	detected	50	0.12 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not	detected	7000	0.20 ug/L	1.00 ug/L	
78-93-3	2-Butanone			not	detected	300	0.22 ug/L	0.50 ug/L	
156-59-2	cis-1,2-Dichloroethene			not	detected	70	0.12 ug/L	0.50 ug/L	
67-66-3	Chloroform			not	detected	70	0.35 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not	detected	30	0.12 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not	detected	1	0.12 ug/L	0.50 ug/L	
71-43-2	Benzene			not	detected	1	0.12 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not	detected	2	0.11 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not	detected	1	0.11 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not	detected	1	0.12 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not	detected	1	0.12 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not	detected	nle	0.24 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not	detected	1	0.13 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not	detected	nle	0.15 ug/L	0.50 ug/L	
108-88-3	Toluene			not	detected	1000	0.12 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not	detected	1	0.13 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not	detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not	detected	1	0.14 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not	detected	nle	0.17 ug/L	1.00 ug/L	
126-48-1	Dibromochloromethane			not	detected	1	0.12 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not	detected	50	0.12 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not	detected	700	0.12 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not	detected	1	0.13 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not	detected	nle	0.30 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not	detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not	detected	100	0.14 ug/L	0.50 ug/L	
75-25-2	Bromoform			not	detected	4	0.14 ug/L	0.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not	detected	1	0.14 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not	detected	600	0.16 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not	detected	75	0.15 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not	detected	600	0.13 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

200 MW#02

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 10344

Matrix: (soil/water) WATER Lab Sample ID: 1034405

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA7216.D

Level: (low/med) LOW Date Received: 8/16/2010

% Moisture: not dec. Date Analyzed: 8/20/2010

GC Column: RTX-VM 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	VA7217.D	Sample Name	1034406
Operator	ROBERTS	Field ID	200 MW#03
Date Acquired	20 Aug 2010 6:23 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	3.21 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	0.98 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.64 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.11 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.17 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.17 ug/L	0.50 ug/L	
74-87-3	Chloromethane			not detected	nle	0.27 ug/L	0.50 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	0.50 ug/L	
74-83-9	Bromomethane			not detected	10	0.37 ug/L	0.50 ug/L	
75-00-3	Chloroethane			not detected	nle	0.32 ug/L	0.50 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.15 ug/L	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.15 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.32 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.12 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.26 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.14 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.12 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	1.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.22 ug/L	0.50 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.12 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.35 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.12 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.12 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.12 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.11 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.11 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.12 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.24 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.15 ug/L	0.50 ug/L	
108-88-3	Toluene			not detected	1000	0.12 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.14 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.17 ug/L	1.00 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.12 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.12 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.13 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.30 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.14 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	0.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.14 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.16 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.15 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.13 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

200 MW#03

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 10344

Matrix: (soil/water) WATER Lab Sample ID: 1034406

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA7217.D

Level: (low/med) LOW Date Received: 8/16/2010

% Moisture: not dec. Date Analyzed: 8/20/2010

GC Column: RTX-VM 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

000032

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VA7218.D	Sample Name	1034407
Operator	ROBERTS	Field ID	200 MW#04
Date Acquired	20 Aug 2010 6:54 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result		Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not	detected	5	3.21 ug/L	5.00 ug/L	
107131	Acrylonitrile			not	detected	2	0.98 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not	detected	100	1.64 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not	detected	70	0.11 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not	detected	20000	0.17 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not	detected	1000	0.17 ug/L	0.50 ug/L	
74-87-3	Chloromethane			not	detected	nle	0.27 ug/L	0.50 ug/L	
75-01-4	Vinyl Chloride			not	detected	1	0.22 ug/L	0.50 ug/L	
74-83-9	Bromomethane			not	detected	10	0.37 ug/L	0.50 ug/L	
75-00-3	Chloroethane			not	detected	nle	0.32 ug/L	0.50 ug/L	
75-69-4	Trichlorofluoromethane			not	detected	2000	0.15 ug/L	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not	detected	1	0.15 ug/L	0.50 ug/L	
67-64-1	Acetone			not	detected	6000	0.32 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not	detected	700	0.12 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not	detected	3	0.26 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not	detected	100	0.14 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not	detected	50	0.12 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not	detected	7000	0.20 ug/L	1.00 ug/L	
78-93-3	2-Butanone			not	detected	300	0.22 ug/L	0.50 ug/L	
156-59-2	cis-1,2-Dichloroethene			not	detected	70	0.12 ug/L	0.50 ug/L	
67-66-3	Chloroform			not	detected	70	0.35 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not	detected	30	0.12 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not	detected	1	0.12 ug/L	0.50 ug/L	
71-43-2	Benzene			not	detected	1	0.12 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not	detected	2	0.11 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not	detected	1	0.11 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not	detected	1	0.12 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not	detected	1	0.12 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not	detected	nle	0.24 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not	detected	1	0.13 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not	detected	nle	0.15 ug/L	0.50 ug/L	
108-88-3	Toluene			not	detected	1000	0.12 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not	detected	1	0.13 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not	detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not	detected	1	0.14 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not	detected	nle	0.17 ug/L	1.00 ug/L	
126-48-1	Dibromochloromethane			not	detected	1	0.12 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not	detected	50	0.12 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not	detected	700	0.12 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not	detected	1	0.13 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not	detected	nle	0.30 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not	detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not	detected	100	0.14 ug/L	0.50 ug/L	
75-25-2	Bromoform			not	detected	4	0.14 ug/L	0.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not	detected	1	0.14 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not	detected	600	0.16 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not	detected	75	0.15 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not	detected	600	0.13 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

200 MW#04

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 10344

Matrix: (soil/water) WATER Lab Sample ID: 1034407

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA7218.D

Level: (low/med) LOW Date Received: 8/16/2010

% Moisture: not dec. Date Analyzed: 8/20/2010

GC Column: RTX-VM 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 NAME	RT	EST. CONC.	Q
1.	1H-Indene-dihydro-dimethyl-	24.17	3	J
2.	1H-Indene-dihydro-dimethyl-	24.80	3	J

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VA7219.D	Sample Name	1034408
Operator	ROBERTS	Field ID	200 MW#05
Date Acquired	20 Aug 2010 7:25 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	3.21 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	0.98 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.64 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.11 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.17 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.17 ug/L	0.50 ug/L	
74-87-3	Chloromethane			not detected	nle	0.27 ug/L	0.50 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	0.50 ug/L	
74-83-9	Bromomethane			not detected	10	0.37 ug/L	0.50 ug/L	
75-00-3	Chloroethane			not detected	nle	0.32 ug/L	0.50 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.15 ug/L	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.15 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.32 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.12 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.26 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.14 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.12 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	1.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.22 ug/L	0.50 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.12 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.35 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.12 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.12 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.12 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.11 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.11 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.12 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.24 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.15 ug/L	0.50 ug/L	
108-88-3	Toluene			not detected	1000	0.12 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.14 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.17 ug/L	1.00 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.12 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.12 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.13 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.30 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.14 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	0.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.14 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.16 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.15 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.13 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

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8/20/2010 8:39 PM

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

200 MW#05

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 10344

Matrix: (soil/water) WATER Lab Sample ID: 1034408

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA7219.D

Level: (low/med) LOW Date Received: 8/16/2010

% Moisture: not dec. Date Analyzed: 8/20/2010

GC Column: RTX-VM 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	VA7220.D	Sample Name	1034409
Operator	ROBERTS	Field ID	200 MW#06
Date Acquired	20 Aug 2010 7:56 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	3.21 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	0.98 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.64 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.11 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.17 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.17 ug/L	0.50 ug/L	
74-87-3	Chloromethane			not detected	nle	0.27 ug/L	0.50 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	0.50 ug/L	
74-83-9	Bromomethane			not detected	10	0.37 ug/L	0.50 ug/L	
75-00-3	Chloroethane			not detected	nle	0.32 ug/L	0.50 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.15 ug/L	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.15 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.32 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.12 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.26 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.14 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.12 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	1.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.22 ug/L	0.50 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.12 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.35 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.12 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.12 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.12 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.11 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.11 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.12 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.24 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.15 ug/L	0.50 ug/L	
108-88-3	Toluene			not detected	1000	0.12 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.14 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.17 ug/L	1.00 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.12 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.12 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.13 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.30 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.14 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	0.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.14 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.16 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.15 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.13 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.
MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

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1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

200 MW#06

Lab Name: FMETL Contract:

Lab Code: 13461 Case No.: MW SAS No.: SDG No.: 10344

Matrix: (soil/water) WATER Lab Sample ID: 1034409

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA7220.D

Level: (low/med) LOW Date Received: 8/16/2010

% Moisture: not dec. Date Analyzed: 8/20/2010

GC Column: RTX-VM 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 ORGANICS

Raw Data: P51855.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	1034402 FIELD BLANK		
Lab Sample ID:	JA54212-1	Date Sampled:	08/16/10
Matrix:	AQ - Field Blank Water	Date Received:	08/18/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P51855.D	1	08/25/10	NAP	08/19/10	OP45229	EP2232
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-86-2	Acetophenone	ND	2.0	0.40	ug/l	
1912-24-9	Atrazine	ND	5.0	0.39	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.40	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.35	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.25	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.42	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.25	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
105-60-2	Caprolactam	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.25	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.39	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.22	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.30	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.40	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.17	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.13	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.24	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.21	ug/l	
78-59-1	Isophorone	ND	2.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.24	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.29	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.18	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.25	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1034402 FIELD BLANK		
Lab Sample ID:	JA54212-1	Date Sampled:	08/16/10
Matrix:	AQ - Field Blank Water	Date Received:	08/18/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	74%		25-112%
321-60-8	2-Fluorobiphenyl	73%		31-106%
1718-51-0	Terphenyl-d14	41%		14-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.00	21	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1034402 FIELD BLANK		
Lab Sample ID:	JA54212-1	Date Sampled:	08/16/10
Matrix:	AQ - Field Blank Water	Date Received:	08/18/10
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M20917.D	1	08/31/10	NAP	08/19/10	OP45229A	E4M905
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.029	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.039	ug/l	
120-12-7	Anthracene	ND	0.10	0.026	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.028	ug/l	
218-01-9	Chrysene	ND	0.10	0.022	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.023	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.024	ug/l	
86-73-7	Fluorene	ND	0.10	0.027	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.0099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.029	ug/l	
91-20-3	Naphthalene	ND	0.10	0.019	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.036	ug/l	
129-00-0	Pyrene	ND	0.10	0.022	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	78%		18-119%
321-60-8	2-Fluorobiphenyl	76%		18-104%
1718-51-0	Terphenyl-d14	48%		13-109%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1034403 DUPLICATE		
Lab Sample ID:	JA54212-2	Date Sampled:	08/16/10
Matrix:	AQ - Water	Date Received:	08/18/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P51856.D	1	08/25/10	NAP	08/19/10	OP45229	EP2232
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-86-2	Acetophenone	ND	2.0	0.40	ug/l	
1912-24-9	Atrazine	ND	5.0	0.39	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.40	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.35	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.25	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.42	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.25	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
105-60-2	Caprolactam	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.25	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.39	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.22	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.30	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.40	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.17	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.13	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.24	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.21	ug/l	
78-59-1	Isophorone	ND	2.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.24	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.29	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.18	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.25	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1034403 DUPLICATE		
Lab Sample ID:	JA54212-2	Date Sampled:	08/16/10
Matrix:	AQ - Water	Date Received:	08/18/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	71%		25-112%
321-60-8	2-Fluorobiphenyl	70%		31-106%
1718-51-0	Terphenyl-d14	31%		14-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.00	22	ug/l	J
68048-01-1	Cyclohexaneamine, N-but-2-enylidene-N-o	15.45	27	ug/l	JN
	Total TIC, Semi-Volatile		27	ug/l	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1034403 DUPLICATE		
Lab Sample ID:	JA54212-2	Date Sampled:	08/16/10
Matrix:	AQ - Water	Date Received:	08/18/10
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M20932.D	1	09/01/10	LP	08/19/10	OP45229A	E4M906
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.029	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.039	ug/l	
120-12-7	Anthracene	ND	0.10	0.026	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.028	ug/l	
218-01-9	Chrysene	ND	0.10	0.022	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.023	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.024	ug/l	
86-73-7	Fluorene	ND	0.10	0.027	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.0099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.029	ug/l	
91-20-3	Naphthalene	ND	0.10	0.019	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.036	ug/l	
129-00-0	Pyrene	ND	0.10	0.022	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	77%		18-119%
321-60-8	2-Fluorobiphenyl	73%		18-104%
1718-51-0	Terphenyl-d14	37%		13-109%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1034404 200MW01		
Lab Sample ID:	JA54212-3	Date Sampled:	08/16/10
Matrix:	AQ - Water	Date Received:	08/18/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P51857.D	1	08/25/10	NAP	08/19/10	OP45229	EP2232
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-86-2	Acetophenone	ND	2.0	0.40	ug/l	
1912-24-9	Atrazine	ND	5.0	0.39	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.40	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.35	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.25	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.42	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.25	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
105-60-2	Caprolactam	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.25	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.39	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.22	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.30	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.40	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.17	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.13	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.24	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.21	ug/l	
78-59-1	Isophorone	ND	2.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.24	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.29	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.18	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.25	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1034404 200MW01		
Lab Sample ID:	JA54212-3	Date Sampled:	08/16/10
Matrix:	AQ - Water	Date Received:	08/18/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		25-112%
321-60-8	2-Fluorobiphenyl	84%		31-106%
1718-51-0	Terphenyl-d14	38%		14-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.00	25	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: 4M20933.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	1034404 200MW01		
Lab Sample ID:	JA54212-3	Date Sampled:	08/16/10
Matrix:	AQ - Water	Date Received:	08/18/10
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M20933.D	1	09/01/10	LP	08/19/10	OP45229A	E4M906
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.029	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.039	ug/l	
120-12-7	Anthracene	ND	0.10	0.026	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.028	ug/l	
218-01-9	Chrysene	ND	0.10	0.022	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.023	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.024	ug/l	
86-73-7	Fluorene	ND	0.10	0.027	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.0099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.029	ug/l	
91-20-3	Naphthalene	ND	0.10	0.019	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.036	ug/l	
129-00-0	Pyrene	ND	0.10	0.022	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	90%		18-119%
321-60-8	2-Fluorobiphenyl	86%		18-104%
1718-51-0	Terphenyl-d14	44%		13-109%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1034405 200MW02		
Lab Sample ID:	JA54212-4	Date Sampled:	08/16/10
Matrix:	AQ - Water	Date Received:	08/18/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P51858.D	1	08/25/10	NAP	08/19/10	OP45229	EP2232
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-86-2	Acetophenone	ND	2.0	0.40	ug/l	
1912-24-9	Atrazine	ND	5.0	0.39	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.40	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.35	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.25	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.42	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.25	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
105-60-2	Caprolactam	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.25	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.39	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.22	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.30	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.40	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.17	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.13	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.24	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.21	ug/l	
78-59-1	Isophorone	ND	2.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.24	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.29	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.18	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.25	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1034405 200MW02		
Lab Sample ID:	JA54212-4	Date Sampled:	08/16/10
Matrix:	AQ - Water	Date Received:	08/18/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	79%		25-112%
321-60-8	2-Fluorobiphenyl	76%		31-106%
1718-51-0	Terphenyl-d14	35%		14-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.00	24	ug/l	J
541-05-9	Cyclotrisiloxane, hexamethyl-	16.18	14	ug/l	JN
	Total TIC, Semi-Volatile		14	ug/l	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1034405 200MW02		
Lab Sample ID:	JA54212-4	Date Sampled:	08/16/10
Matrix:	AQ - Water	Date Received:	08/18/10
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M20934.D	1	09/01/10	LP	08/19/10	OP45229A	E4M906
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.029	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.039	ug/l	
120-12-7	Anthracene	ND	0.10	0.026	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.028	ug/l	
218-01-9	Chrysene	ND	0.10	0.022	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.023	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.024	ug/l	
86-73-7	Fluorene	ND	0.10	0.027	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.0099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.029	ug/l	
91-20-3	Naphthalene	ND	0.10	0.019	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.036	ug/l	
129-00-0	Pyrene	ND	0.10	0.022	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	87%		18-119%
321-60-8	2-Fluorobiphenyl	81%		18-104%
1718-51-0	Terphenyl-d14	41%		13-109%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1034406 200MW03		
Lab Sample ID:	JA54212-5	Date Sampled:	08/16/10
Matrix:	AQ - Water	Date Received:	08/18/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P51859.D	1	08/25/10	NAP	08/19/10	OP45229	EP2232
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-86-2	Acetophenone	ND	2.0	0.40	ug/l	
1912-24-9	Atrazine	ND	5.0	0.39	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.40	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.35	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.25	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.42	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.25	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
105-60-2	Caprolactam	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.25	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.39	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.22	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.30	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.40	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.17	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.13	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.24	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.21	ug/l	
78-59-1	Isophorone	ND	2.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.24	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.29	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.18	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.25	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1034406 200MW03		
Lab Sample ID:	JA54212-5	Date Sampled:	08/16/10
Matrix:	AQ - Water	Date Received:	08/18/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	83%		25-112%
321-60-8	2-Fluorobiphenyl	82%		31-106%
1718-51-0	Terphenyl-d14	29%		14-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.00	27	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1034406 200MW03		
Lab Sample ID:	JA54212-5	Date Sampled:	08/16/10
Matrix:	AQ - Water	Date Received:	08/18/10
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M20925.D	1	08/31/10	LP	08/19/10	OP45229A	E4M906
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.029	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.039	ug/l	
120-12-7	Anthracene	ND	0.10	0.026	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.028	ug/l	
218-01-9	Chrysene	ND	0.10	0.022	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.023	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.024	ug/l	
86-73-7	Fluorene	ND	0.10	0.027	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.0099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.029	ug/l	
91-20-3	Naphthalene	ND	0.10	0.019	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.036	ug/l	
129-00-0	Pyrene	ND	0.10	0.022	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	91%		18-119%
321-60-8	2-Fluorobiphenyl	86%		18-104%
1718-51-0	Terphenyl-d14	36%		13-109%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1034407 200MW04		
Lab Sample ID:	JA54212-6	Date Sampled:	08/16/10
Matrix:	AQ - Water	Date Received:	08/18/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P51860.D	1	08/25/10	NAP	08/19/10	OP45229	EP2232
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-86-2	Acetophenone	ND	2.0	0.40	ug/l	
1912-24-9	Atrazine	ND	5.0	0.39	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.40	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.35	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.25	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.42	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.25	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
105-60-2	Caprolactam	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.25	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.39	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.22	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.30	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.40	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.17	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.13	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.24	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.21	ug/l	
78-59-1	Isophorone	ND	2.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.24	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.29	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.18	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.25	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1034407 200MW04		
Lab Sample ID:	JA54212-6	Date Sampled:	08/16/10
Matrix:	AQ - Water	Date Received:	08/18/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	76%		25-112%
321-60-8	2-Fluorobiphenyl	77%		31-106%
1718-51-0	Terphenyl-d14	49%		14-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.00	24	ug/l	J
	unknown	14.94	11	ug/l	J
	unknown	15.69	4.5	ug/l	J
	Total TIC, Semi-Volatile		15.5	ug/l	J

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1034407 200MW04		
Lab Sample ID:	JA54212-6	Date Sampled:	08/16/10
Matrix:	AQ - Water	Date Received:	08/18/10
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M20926.D	1	08/31/10	LP	08/19/10	OP45229A	E4M906
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.209	0.10	0.029	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.039	ug/l	
120-12-7	Anthracene	ND	0.10	0.026	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.028	ug/l	
218-01-9	Chrysene	ND	0.10	0.022	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.023	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.024	ug/l	
86-73-7	Fluorene	0.158	0.10	0.027	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.0099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.029	ug/l	
91-20-3	Naphthalene	ND	0.10	0.019	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.036	ug/l	
129-00-0	Pyrene	ND	0.10	0.022	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	80%		18-119%
321-60-8	2-Fluorobiphenyl	78%		18-104%
1718-51-0	Terphenyl-d14	57%		13-109%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1034408 200MW05		
Lab Sample ID:	JA54212-7	Date Sampled:	08/16/10
Matrix:	AQ - Water	Date Received:	08/18/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P51861.D	1	08/25/10	NAP	08/19/10	OP45229	EP2232
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-86-2	Acetophenone	ND	2.0	0.40	ug/l	
1912-24-9	Atrazine	ND	5.0	0.39	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.40	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.35	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.25	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.42	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.25	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
105-60-2	Caprolactam	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.25	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.39	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.22	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.30	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.40	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.17	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.13	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.24	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.21	ug/l	
78-59-1	Isophorone	ND	2.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.24	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.29	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.18	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.25	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1034408 200MW05		
Lab Sample ID:	JA54212-7	Date Sampled:	08/16/10
Matrix:	AQ - Water	Date Received:	08/18/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	82%		25-112%
321-60-8	2-Fluorobiphenyl	79%		31-106%
1718-51-0	Terphenyl-d14	36%		14-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.00	25	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1034408 200MW05		
Lab Sample ID:	JA54212-7	Date Sampled:	08/16/10
Matrix:	AQ - Water	Date Received:	08/18/10
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M20927.D	1	08/31/10	LP	08/19/10	OP45229A	E4M906
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.029	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.039	ug/l	
120-12-7	Anthracene	ND	0.10	0.026	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.028	ug/l	
218-01-9	Chrysene	ND	0.10	0.022	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.023	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.024	ug/l	
86-73-7	Fluorene	ND	0.10	0.027	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.0099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.029	ug/l	
91-20-3	Naphthalene	ND	0.10	0.019	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.036	ug/l	
129-00-0	Pyrene	ND	0.10	0.022	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	90%		18-119%
321-60-8	2-Fluorobiphenyl	83%		18-104%
1718-51-0	Terphenyl-d14	42%		13-109%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1034409 200MW06		
Lab Sample ID:	JA54212-8	Date Sampled:	08/16/10
Matrix:	AQ - Water	Date Received:	08/18/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P51862.D	1	08/25/10	NAP	08/19/10	OP45229	EP2232
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-86-2	Acetophenone	ND	2.0	0.40	ug/l	
1912-24-9	Atrazine	ND	5.0	0.39	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.40	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.35	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.25	ug/l	
92-52-4	1,1'-Biphenyl	2.6	1.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.42	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.25	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
105-60-2	Caprolactam	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.25	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.39	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.22	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.30	ug/l	
132-64-9	Dibenzofuran	1.8	5.0	0.30	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	2.0	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.40	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.17	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.13	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.24	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.21	ug/l	
78-59-1	Isophorone	ND	2.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.24	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.29	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.18	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.25	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1034409 200MW06		
Lab Sample ID:	JA54212-8	Date Sampled:	08/16/10
Matrix:	AQ - Water	Date Received:	08/18/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		25-112%
321-60-8	2-Fluorobiphenyl	82%		31-106%
1718-51-0	Terphenyl-d14	32%		14-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact/aldol-condensation	3.00	28	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: 4M20928.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	1034409 200MW06		
Lab Sample ID:	JA54212-8	Date Sampled:	08/16/10
Matrix:	AQ - Water	Date Received:	08/18/10
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M20928.D	1	08/31/10	LP	08/19/10	OP45229A	E4M906
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.029	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.039	ug/l	
120-12-7	Anthracene	ND	0.10	0.026	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.028	ug/l	
218-01-9	Chrysene	ND	0.10	0.022	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.023	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.024	ug/l	
86-73-7	Fluorene	0.268	0.10	0.027	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.0099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.029	ug/l	
91-20-3	Naphthalene	0.221	0.10	0.019	ug/l	
85-01-8	Phenanthrene	3.28	0.10	0.036	ug/l	
129-00-0	Pyrene	ND	0.10	0.022	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	90%		18-119%
321-60-8	2-Fluorobiphenyl	84%		18-104%
1718-51-0	Terphenyl-d14	37%		13-109%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package and in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature Jennifer Tarcik

Date: 9/7/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff 9/7/10
Dean Tardiff
Laboratory Manager

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

ANALYTICAL DATA REPORT
Fort Monmouth Environmental Laboratory
ENVIRONMENTAL DIVISION
Fort Monmouth, New Jersey
PROJECT: Site 200

New Wells RDII

Bldg. 200

Field Sample Location	Laboratory Sample ID#	Matrix	Date and Time of Collection	Date Received
Trip Blank	1037101	Aqueous	30-Aug-10 14:00	08/30/10
Field Blank	1037102	Aqueous	30-Aug-10 14:30	08/30/10
Duplicate	1037103	Aqueous	30-Aug-10 14:40	08/30/10
200MW01*	1037104	Aqueous	30-Aug-10 14:40	08/30/10
200MW02	1037105	Aqueous	30-Aug-10 14:50	08/30/10
200MW03	1037106	Aqueous	30-Aug-10 15:20	08/30/10
200MW04	1037107	Aqueous	30-Aug-10 17:00	08/30/10
200MW05	1037108	Aqueous	30-Aug-10 17:30	08/30/10
200MW06	1037109	Aqueous	30-Aug-10 18:00	08/30/10

DUP. sample is 1037104.

ANALYSIS:
FORT MONMOUTH ENVIRONMENTAL LAB.
VOA+15

ACCUTEST LABORATORIES
BN+15

Dean Tardiff/Date: 10/6/10
Laboratory Manager

The enclosed report relates only to the items tested. The report may not be reproduced, except in full, without written approval of the U.S. Army Fort Monmouth Directorate of Public Works.

10371

METHODOLOGY SUMMARY

PARAMETER	REFERENCE
TARGET ANALYTE LIST METALS	Standard Methods, 18th ed.
Aluminum	3120B
Antimony	3120B
Arsenic	3113B
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	279.3
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

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SAMPLING

Fort Monmouth Environmental Testing Laboratory

Bldg. 173, SELFM-PW-EV, Fort Monmouth, NJ 07703
Tel (732)532-6352 Fax (732)532-6263 EMail:dean.tardiff@us.army.mil
NJDEP Certification #13461

Chain of Custody Record

Customer: JOE FALLON
Phone #: 732-532-6223
( )DERA ( )OMA ( )Other:_____

Project No:
Location: NEW MONITOR WELL SAMPLING

Samplers Name / Company: WALTER FUNIC / TVS

Work Order #	Sample Location	Date	Time	Sample Type	# bottles	Analysis Parameters: VOA+15	Analysis Parameters: BN	Comments: Remarks / Preservation Method
10371 .01	200 TRIP BLANK	08-30-10	14:00	AQ	2	X		
.02	200 FIELD BLANK	08-30-10	14:30	AQ	3	X	X	
.03	200 DUP	08-30-10	———	AQ	3	X	X	
.04	200 MW#01*	08-30-10	14:40	AQ	3	X	X	
.05	200 MW#02	08-30-10	14:50	AQ	3	X	X	
.06	200 MW#03	08-30-10	15:20	AQ	3	X	X	
.07	200 MW#04	08-30-10	17:00	AQ	3	X	X	
.08	200 MW#05	08-30-10	17:30	AQ	3	X	X	
.09	200 MW#06	08-30-10	18:00	AQ	3	X	X	

Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):
	8/30/10 500				
Relinquished by (signature):	Date/Time:	Received by (signature):	Relinquished by (signature):	Date/Time:	Received by (signature):

Report Type: (_)Full, (X)Reduced, (_)Standard, (_)Screen / non-certified, (_)EDD
Turnaround time: (X)Standard 3 wks, (_)Rush ____Wk., (_)ASAP Verbal ____Hrs.

Remarks:

print legibly

COC Copy.xls7/2/2010

SAMPLE RECEIPT FORM

Date Received: 8-31-10 Work Order ID#: 10371

Site/Proj. Name: 200 Area / Wells Cooler Temp (°C): ICE

Received By: J Velasquez Sign:
(Print name)

Check the appropriate box

1. Did the samples come in a cooler?	yes	no	n/a
2. Were samples rec'd in good condition?	yes	no	
3. Was the chain of custody filled out correctly and legibly?	yes	no	
4. Was the chain of custody signed in the appropriate place?	yes	no	
5. Did the labels agree with the chain of custody?	yes	no	
6. Were the correct containers/preservatives used?	yes	no	
7. Was a sufficient amount of sample supplied?	yes	no	
8. Were air bubbles present in VOA vials?	yes	no	n/a
9. Were samples received on ice?	yes	no	
10. Were analyze-immediately tests perform within 15 minutes	yes	no	n/a

Fill out the following table for each sample bottle

Lims ID	pH	Preservative	Sample ID	pH	Preservative
10371/1-9	N/A	HCL			

Comments: _____

US ARMY FORT MONMOUTH MONITOR WELL SAMPLING

LOCATION: 200
MW #: 01
NJDEP ID # NA
NJDEP CERT. # 13461
SAMPLING CONTRACTOR: TECOM-VINNELL SERVICES
SAMPLER: WALTER FUNK
DATE: 8/30/10
WEATHER: Sunny and Hot
TIDE: N/A

Sampling Conducted in Accordance with TVS SOP SAM-0205

Initial Readings:

Elevation of Casing Survey Mark:	8.22 ft
Depth of Well:	22.25 ft
Height of water in well:	14.03 ft
PID/FID Reading:	2571/0.00 ppm
Gallons of Water to be Purged:	Gal.
Formula: ht.of water x (0.163 for 2" well or 0.65 for 4" well) x 3 =	27.35
Purge Method: Peristaltic Pump/Other (Specify)	
Purge Rate: Not to Exceed Well Draw Down of 0.5'	Gal/Min. 27/117

Purge Data:

Start Time of Purging: 12:39
End Time of Purging: 14:36

	Initial Value	Pre-Sample	Post-Sample
pH:	4.91 su	5.33 su	5.09 su
Temperature:	16.45 (°C)	16.61 (°C)	15.56 (°C)
Specific Conductivity:	3966 us/cm	3777 us/cm	3644 us/cm
ORP:	161 mv	143 mv	179 mv
DO:	5.05 mg/L	2.89 mg/L	2.95 mg/L
Depth to Water Post Purge:	9.35 ft		
Depth to Water Post Sampling:	9.63 ft		
Sampling Start Time:	14:40		
Sampling End Time:	14:50		

Comments: DUP HERE

US ARMY FORT MONMOUTH MONITOR WELL SAMPLING

LOCATION: 200
MW #: 02
NJDEP ID # NA
NJDEP CERT. # 13461
SAMPLING CONTRACTOR: TECOM-VINNELL SERVICES
SAMPLER: WALTER FUNK
DATE: 8/30/10
WEATHER: Sunny and Hot
TIDE: N/A

Sampling Conducted in Accordance with TVS SOP SAM-0205

Initial Readings:

Elevation of Casing Survey Mark:	10.00 ft
Depth of Well:	22.46 ft
Height of water in well:	12.46 ft
PID/FID Reading:	3876/3.12 ppm
Gallons of Water to be Purged:	24 Gal.
Formula: ht.of water x (0.163 for 2" well or 0.65 for 4" well) x 3 =	24.29
Purge Method: Peristaltic Pump/Other (Specify)	
Purge Rate: Not to Exceed Well Draw Down of 0.5'	Gal/Min. 24/104

Purge Data:

Start Time of Purging: 13:03
End Time of Purging: 14:47

	Initial Value	Pre-Sample	Post-Sample
pH:	5.18 su	4.91 su	4.74 su
Temperature:	16.67 (°C)	13.79 (°C)	13.46 (°C)
Specific Conductivity:	3234 us/cm	3168 us/cm	3186 us/cm
ORP:	67 mv	60 mv	72 mv
DO:	2.15 mg/L	1.72 mg/L	1.86 mg/L
Depth to Water Post Purge:	11.17 ft		
Depth to Water Post Sampling:	11.44 ft		
Sampling Start Time:	14:50		
Sampling End Time:	14:58		

Comments:

US ARMY FORT MONMOUTH MONITOR WELL SAMPLING

LOCATION: 200
MW #: 03
NJDEP ID # NA
NJDEP CERT. # 13461
SAMPLING CONTRACTOR: TECOM-VINNELL SERVICES
SAMPLER: WALTER FUNK
DATE: 8/30/10
WEATHER: Sunny and Hot
TIDE: N/A

Sampling Conducted in Accordance with TVS SOP SAM-0205

Initial Readings:

Elevation of Casing Survey Mark:	8.80 ft
Depth of Well:	21.95 ft
Height of water in well:	13.15 ft
PID/FID Reading:	66.78/4.71 ppm
Gallons of Water to be Purged:	26 Gal.
Formula: ht.of water x (0.163 for 2" well or 0.65 for 4" well) x 3 =	25.64
Purge Method: Peristaltic Pump/Other (Specify)	
Purge Rate: Not to Exceed Well Draw Down of 0.5'	Gal/Min. 26/113

Purge Data:

Start Time of Purging: 13:20
End Time of Purging: 15:13

	Initial Value	Pre-Sample	Post-Sample
pH:	4.22 su	4.18 su	4.02 su
Temperature:	13:02 (°C)	12.61 (°C)	12.62 (°C)
Specific Conductivity:	4591 us/cm	4275 us/cm	4234 us/cm
ORP:	132 mv	117 mv	124 mv
DO:	2.42 mg/L	2.61 mg/L	2.19 mg/L
Depth to Water Post Purge:	9.21 ft		
Depth to Water Post Sampling:	9.53 ft		
Sampling Start Time:	15:20		
Sampling End Time:	15:25		

Comments:

US ARMY FORT MONMOUTH MONITOR WELL SAMPLING

LOCATION: 200
MW #: 04
NJDEP ID # NA
NJDEP CERT. # 13461
SAMPLING CONTRACTOR: TECOM-VINNELL SERVICES
SAMPLER: WALTER FUNK
DATE: 8/30/10
WEATHER: Sunny and Hot
TIDE: N/A

Sampling Conducted in Accordance with TVS SOP SAM-0205

Initial Readings:

Elevation of Casing Survey Mark:	9.33 ft
Depth of Well:	22.25 ft
Height of water in well:	12.92 ft
PID/FID Reading:	88.12/39.16 ppm
Gallons of Water to be Purged:	25 Gal.
Formula: ht.of water x (0.163 for 2" well or 0.65 for 4" well) x 3 =	25.19
Purge Method: Peristaltic Pump/Other (Specify)	
Purge Rate: Not to Exceed Well Draw Down of 0.5'	Gal/Min. 25/109

Purge Data:

Start Time of Purging: 15:08
End Time of Purging: 16:57

	Initial Value	Pre-Sample	Post-Sample
pH:	5.03 su	5.56 su	4.86 su
Temperature:	16.14 (°C)	14.83 (°C)	13.28 (°C)
Specific Conductivity:	2949 us/cm	3649 us/cm	3446 us/cm
ORP:	84 mv	60 mv	128 mv
DO:	2.23 mg/L	2.19 mg/L	1.58 mg/L
Depth to Water Post Purge:	9.89 ft		
Depth to Water Post Sampling:	10.17 ft		
Sampling Start Time:	17:00		
Sampling End Time:	17:08		

Comments:

US ARMY FORT MONMOUTH MONITOR WELL SAMPLING

LOCATION: 200
MW #: 05
NJDEP ID # NA
NJDEP CERT. # 13461
SAMPLING CONTRACTOR: TECOM-VINNELL SERVICES
SAMPLER: WALTER FUNK
DATE: 8/30/10
WEATHER: Sunny and Hot
TIDE: N/A

Sampling Conducted in Accordance with TVS SOP SAM-0205

Initial Readings:

Elevation of Casing Survey Mark:	8.96 ft
Depth of Well:	22.07 ft
Height of water in well:	13.11 ft
PID/FID Reading:	298/248 ppm
Gallons of Water to be Purged:	26 Gal.
Formula: ht.of water x (0.163 for 2" well or 0.65 for 4" well) x 3 =	25.56
Purge Method: Peristaltic Pump/Other (Specify)	
Purge Rate: Not to Exceed Well Draw Down of 0.5'	Gal/Min. 26/113

Purge Data:

Start Time of Purging: 15:34
End Time of Purging: 17:27

	Initial Value	Pre-Sample	Post-Sample
pH:	5.13 su	4.57 su	4.41 su
Temperature:	18.26 (°C)	14.01 (°C)	14.13 (°C)
Specific Conductivity:	2726 us/cm	2717 us/cm	2713 us/cm
ORP:	50 mv	73 mv	94 mv
DO:	2.06 mg/L	1.54 mg/L	1.69 mg/L
Depth to Water Post Purge:	10.82 ft		
Depth to Water Post Sampling:	11.08 ft		
Sampling Start Time:	17:30		
Sampling End Time:	17:36		

Comments:

US ARMY FORT MONMOUTH MONITOR WELL SAMPLING

LOCATION: 200
MW #: 06
NJDEP ID # NA
NJDEP CERT. # 13461
SAMPLING CONTRACTOR: TECOM-VINNELL SERVICES
SAMPLER: WALTER FUNK
DATE: 8/30/10
WEATHER: Sunny and Hot
TIDE: N/A

Sampling Conducted in Accordance with TVS SOP SAM-0205

Initial Readings:

Elevation of Casing Survey Mark:	9.05 ft
Depth of Well:	21.93 ft
Height of water in well:	12.88 ft
PID/FID Reading:	93.52/52.68 ppm
Gallons of Water to be Purged:	25 Gal.
Formula: ht.of water x (0.163 for 2" well or 0.65 for 4" well) x 3 =	25.11
Purge Method: Peristaltic Pump/Other (Specify)	
Purge Rate: Not to Exceed Well Draw Down of 0.5'	Gal/Min. 25/109

Purge Data:

Start Time of Purging: 16:03
End Time of Purging: 17:52

	Initial Value	Pre-Sample	Post-Sample
pH:	3.95 su	4.68 su	3.73 su
Temperature:	20.11 (°C)	16.02 (°C)	16.41 (°C)
Specific Conductivity:	3493 us/cm	3751 us/cm	3716 us/cm
ORP:	89 mv	99 mv	135 mv
DO:	2.64 mg/L	1.93 mg/L	1.59 mg/L
Depth to Water Post Purge:	10.15 ft		
Depth to Water Post Sampling:	10.31 ft		
Sampling Start Time:	18:00		
Sampling End Time:	18:06		

Comments:

CONFORMANCE/ NON-CONFORMANCE SUMMARY

10371 VOA

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT

	Indicate Yes, No, N/A
1. Chromatograms labeled/Compounds identified (Field samples and method blanks)	Yes
2. Retention times for chromatograms provided	Yes
3. GC/MS Tune Specifications	
a. BFB Meet Criteria	Yes
b. DFTPP Meet Criteria	N/A
4. GC/MS Tuning Frequency – Performed every 24 hours for 600 series and 12 hours for 8000 series	Yes
5. GC/MS Calibration – Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series	Yes
6. GC/MS Calibration requirements	
a. Calibration Check Compounds Meet Criteria	Yes
b. System Performance Check Compounds Meet Criteria	Yes
7. Blank Contamination – If yes, List compounds and concentrations in each blank:	No
a. VOA Fraction_____	
b. B/N Fraction_____	
c. Acid Fraction_____	
8. Surrogate Recoveries Meet Criteria	Yes
If not met, list those compounds and their recoveries, which fall outside the acceptable range:	
a. VOA Fraction_____	
b. B/N Fraction_____	
c. Acid Fraction_____	
If not met, were the calculations checked and the results qualified as "estimated"?	
9. Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria (If not met, list those compounds and their recoveries, which fall outside the acceptable range)	No
a. VOA Fraction See ms/msd report footnotes	
b. B/N Fraction_____	
c. Acid Fraction_____	

GC/MS ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY FORMAT (cont.)

Indicate
Yes, No, N/A

10. Internal Standard Area/Retention Time Shift Meet Criteria — Yes
(If not met, list those compounds, which fall outside the acceptable range)

a. VOA Fraction _____
b. B/N Fraction _____
c. Acid Fraction _____

11. Extraction Holding Time Met — N/A

If not met, list the number of days exceeded for each sample: _____

12. Analysis Holding Time Met — Yes

If not met, list the number of days exceeded for each sample: _____

Additional Comments:

Laboratory Manager: Dean Tarca Date: 10/6/10

9/9/10

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Fort Monmouth Environmental Testing Lab.	**Job No**	JA55189
Site:	New Wells Area 200	**Report Date**	9/15/2010 5:08:57 PM

On 08/31/2010, 7 Sample(s), 0 Trip Blank(s) and 1 Field Blank(s) were received at Accutest Laboratories at a temperature of 4.2 C. Samples were intact and properly preserved, unless noted below. An Accutest Job Number of JA55189 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Extractables by GCMS By Method SW846 8270C

Matrix: AQ **Batch ID:** OP45444

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA55172-1MS, JA55172-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Di-n-octyl phthalate are outside control limits. Outside of in house control limits.
- Matrix Spike Duplicate Recovery(s) for 4-Chloroaniline, Di-n-octyl phthalate are outside control limits. Outside of in house control limits. .

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix: AQ **Batch ID:** OP45444A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA55172-1MS, JA55172-1MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Benzo(b)fluoranthene are outside control limits. Outside of in house control limits.
- Matrix Spike Duplicate Recovery(s) for Benzo(b)fluoranthene are outside control limits. Outside of in house control limits.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

LABORATORY CHRONICLE

Laboratory Chronicle

Lab ID: 10371 **Site:** Site 200

	Date	Hold Time
Date Sampled	08/30/10	NA
Receipt/Refrigeration	08/30/10	NA

Analyses

1. Volatiles	09/03/10	14 Days
2. Semi-Volatiles	09/11,13/10	7 Days

VOLATILE ORGANICS

US ARMY FT. MONMOUTH ENVIRONMENTAL LABORATORY
NJDEP CERTIFICATION # 13461

Definition of Qualifiers

U: The compound was analyzed for but not detected.

B: Indicates that the compound was found in the associated method blank as well as in the sample.

J: Indicates an estimated value. This flag is used:
(1) When the mass spec and retention time data indicate the presence of a compound however the result is less than the reporting limit but greater than the MDL.
(2) When estimating the concentration of a tentatively identified compound (TIC), where a 1:1 response is assumed.

D: This flag is used to identify all compounds (target or TIC) that required a dilution.

E: Indicates the compound's concentration exceeds the calibration range of the instrument for that specific analysis.

N: This flag is only used for TICs. It indicates the presumptive evidence of a compound. For a generic characterization of a TIC, such as unknown hydrocarbon, the flag is not used.

Volatile Analysis Report
U.S. Army, Fort Monmouth Environmental Laboratory
NJDEP Certification #13461

Data File	VA7368.D	Sample Name	MB09031001
Operator	ROBERTS	Field ID	METHOD 624 9/3/10
Date Acquired	3 Sep 2010 11:49 am	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	3.21 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	0.98 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.64 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.11 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.17 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.17 ug/L	0.50 ug/L	
74-87-3	Chloromethane			not detected	nle	0.27 ug/L	0.50 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	0.50 ug/L	
74-83-9	Bromomethane			not detected	10	0.37 ug/L	0.50 ug/L	
75-00-3	Chloroethane			not detected	nle	0.32 ug/L	0.50 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.15 ug/L	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.15 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.32 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.12 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.26 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.14 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.12 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	1.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.22 ug/L	0.50 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.12 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.35 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.12 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.12 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.12 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.11 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.11 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.12 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.24 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.15 ug/L	0.50 ug/L	
108-88-3	Toluene			not detected	1000	0.12 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.14 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.17 ug/L	1.00 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.12 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.12 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.13 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.30 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.14 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	0.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.14 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.16 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.15 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.13 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

MB09031001

Lab Name: FMETL NJDEP # 13461

Project: Case No.: MW Location: SDG No.: 10371

Matrix: (soil/water) WATER Lab Sample ID: MB09031001

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA7368.D

Level: (low/med) LOW Date Received: 8/30/2010

% Moisture: not dec. Date Analyzed: 9/3/2010

GC Column: Rtx-VMS 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	VA7381.D	Sample Name	1037101
Operator	ROBERTS	Field ID	200 TRIP BLANK
Date Acquired	3 Sep 2010 7:36 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result		Regulatory Level (ug/l)*	MDL		RL	Qualifiers
107028	Acrolein			not	detected	5	3.21	ug/L	5.00	ug/L
107131	Acrylonitrile			not	detected	2	0.98	ug/L	5.00	ug/L
75650	tert-Butyl alcohol			not	detected	100	1.64	ug/L	5.00	ug/L
1634044	Methyl-tert-Butyl ether			not	detected	70	0.11	ug/L	0.50	ug/L
108203	Di-isopropyl ether			not	detected	20000	0.17	ug/L	0.50	ug/L
75718	Dichlorodifluoromethane			not	detected	1000	0.17	ug/L	0.50	ug/L
74-87-3	Chloromethane			not	detected	nle	0.27	ug/L	0.50	ug/L
75-01-4	Vinyl Chloride			not	detected	1	0.22	ug/L	0.50	ug/L
74-83-9	Bromomethane			not	detected	10	0.37	ug/L	0.50	ug/L
75-00-3	Chloroethane			not	detected	nle	0.32	ug/L	0.50	ug/L
75-69-4	Trichlorofluoromethane			not	detected	2000	0.15	ug/L	0.50	ug/L
75-35-4	1,1-Dichloroethene			not	detected	1	0.15	ug/L	0.50	ug/L
67-64-1	Acetone			not	detected	6000	0.32	ug/L	0.50	ug/L
75-15-0	Carbon Disulfide			not	detected	700	0.12	ug/L	0.50	ug/L
75-09-2	Methylene Chloride			not	detected	3	0.26	ug/L	0.50	ug/L
156-60-5	trans-1,2-Dichloroethene			not	detected	100	0.14	ug/L	0.50	ug/L
75-35-3	1,1-Dichloroethane			not	detected	50	0.12	ug/L	0.50	ug/L
108-05-4	Vinyl Acetate			not	detected	7000	0.20	ug/L	1.00	ug/L
78-93-3	2-Butanone			not	detected	300	0.22	ug/L	0.50	ug/L
156-59-2	cis-1,2-Dichloroethene			not	detected	70	0.12	ug/L	0.50	ug/L
67-66-3	Chloroform			not	detected	70	0.35	ug/L	0.50	ug/L
75-55-6	1,1,1-Trichloroethane			not	detected	30	0.12	ug/L	0.50	ug/L
56-23-5	Carbon Tetrachloride			not	detected	1	0.12	ug/L	0.50	ug/L
71-43-2	Benzene			not	detected	1	0.12	ug/L	0.50	ug/L
107-06-2	1,2-Dichloroethane			not	detected	2	0.11	ug/L	0.50	ug/L
79-01-6	Trichloroethene			not	detected	1	0.11	ug/L	0.50	ug/L
78-87-5	1,2-Dichloropropane			not	detected	1	0.12	ug/L	0.50	ug/L
75-27-4	Bromodichloromethane			not	detected	1	0.12	ug/L	0.50	ug/L
110-75-8	2-Chloroethyl vinyl ether			not	detected	nle	0.24	ug/L	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene			not	detected	1	0.13	ug/L	0.50	ug/L
108-10-1	4-Methyl-2-Pentanone			not	detected	nle	0.15	ug/L	0.50	ug/L
108-88-3	Toluene			not	detected	1000	0.12	ug/L	0.50	ug/L
10061-02-6	trans-1,3-Dichloropropene			not	detected	1	0.13	ug/L	0.50	ug/L
79-00-5	1,1,2-Trichloroethane			not	detected	3	0.14	ug/L	0.50	ug/L
127-18-4	Tetrachloroethene			not	detected	1	0.14	ug/L	0.50	ug/L
591-78-6	2-Hexanone			not	detected	nle	0.17	ug/L	1.00	ug/L
126-48-1	Dibromochloromethane			not	detected	1	0.12	ug/L	0.50	ug/L
108-90-7	Chlorobenzene			not	detected	50	0.12	ug/L	0.50	ug/L
100-41-4	Ethylbenzene			not	detected	700	0.12	ug/L	0.50	ug/L
630-20-6	1,1,1,2-tetrachloroethane			not	detected	1	0.13	ug/L	0.50	ug/L
1330-20-7	m+p-Xylenes			not	detected	nle	0.30	ug/L	1.00	ug/L
1330-20-7	o-Xylene			not	detected	nle	0.14	ug/L	0.50	ug/L
100-42-5	Styrene			not	detected	100	0.14	ug/L	0.50	ug/L
75-25-2	Bromoform			not	detected	4	0.14	ug/L	0.50	ug/L
79-34-5	1,1,2,2-Tetrachloroethane			not	detected	1	0.14	ug/L	0.50	ug/L
541-73-1	1,3-Dichlorobenzene			not	detected	600	0.16	ug/L	0.50	ug/L
106-46-7	1,4-Dichlorobenzene			not	detected	75	0.15	ug/L	0.50	ug/L
95-50-1	1,2-Dichlorobenzene			not	detected	600	0.13	ug/L	0.50	ug/L

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

200 TRIP BLANK

Lab Name: FMETL NJDEP # 13461

Project: Case No.: MW Location: SDG No.: 10371

Matrix: (soil/water) WATER Lab Sample ID: 1037101

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA7381.D

Level: (low/med) LOW Date Received: 8/30/2010

% Moisture: not dec. Date Analyzed: 9/3/2010

GC Column: Rtx-VMS 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	VA7382.D	Sample Name	1037102
Operator	ROBERTS	Field ID	200 FIELD BLANK
Date Acquired	3 Sep 2010 8:08 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	3.21 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	0.98 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.64 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.11 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.17 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.17 ug/L	0.50 ug/L	
74-87-3	Chloromethane			not detected	nle	0.27 ug/L	0.50 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	0.50 ug/L	
74-83-9	Bromomethane			not detected	10	0.37 ug/L	0.50 ug/L	
75-00-3	Chloroethane			not detected	nle	0.32 ug/L	0.50 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.15 ug/L	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.15 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.32 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.12 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.26 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.14 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.12 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	1.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.22 ug/L	0.50 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.12 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.35 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.12 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.12 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.12 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.11 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.11 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.12 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.24 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.15 ug/L	0.50 ug/L	
108-88-3	Toluene			not detected	1000	0.12 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.14 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.17 ug/L	1.00 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.12 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.12 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.13 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.30 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.14 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	0.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.14 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.16 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.15 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.13 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

200 FIELD BLANK

Lab Name: FMETL NJDEP # 13461

Project: Case No.: MW Location: SDG No.: 10371

Matrix: (soil/water) WATER Lab Sample ID: 1037102

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA7382.D

Level: (low/med) LOW Date Received: 8/30/2010

% Moisture: not dec. Date Analyzed: 9/3/2010

GC Column: Rtx-VMS 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	VA7383.D	Sample Name	1037103
Operator	ROBERTS	Field ID	200 DUP
Date Acquired	3 Sep 2010 8:38 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	3.21 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	0.98 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.64 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.11 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.17 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.17 ug/L	0.50 ug/L	
74-87-3	Chloromethane			not detected	nle	0.27 ug/L	0.50 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	0.50 ug/L	
74-83-9	Bromomethane			not detected	10	0.37 ug/L	0.50 ug/L	
75-00-3	Chloroethane			not detected	nle	0.32 ug/L	0.50 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.15 ug/L	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.15 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.32 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.12 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.26 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.14 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.12 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	1.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.22 ug/L	0.50 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.12 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.35 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.12 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.12 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.12 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.11 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.11 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.12 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.24 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.15 ug/L	0.50 ug/L	
108-88-3	Toluene			not detected	1000	0.12 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.14 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.17 ug/L	1.00 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.12 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.12 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.13 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.30 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.14 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	0.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.14 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.16 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.15 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.13 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

200 DUP

Lab Name: FMETL NJDEP # 13461

Project: Case No.: MW Location: SDG No.: 10371

Matrix: (soil/water) WATER Lab Sample ID: 1037103

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA7383.D

Level: (low/med) LOW Date Received: 8/30/2010

% Moisture: not dec. Date Analyzed: 9/3/2010

GC Column: Rtx-VMS 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	VA7384.D	Sample Name	1037104
Operator	ROBERTS	Field ID	200 MW#01
Date Acquired	3 Sep 2010 9:09 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result		Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not	detected	5	3.21 ug/L	5.00 ug/L	
107131	Acrylonitrile			not	detected	2	0.98 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not	detected	100	1.64 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not	detected	70	0.11 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not	detected	20000	0.17 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not	detected	1000	0.17 ug/L	0.50 ug/L	
74-87-3	Chloromethane			not	detected	nle	0.27 ug/L	0.50 ug/L	
75-01-4	Vinyl Chloride			not	detected	1	0.22 ug/L	0.50 ug/L	
74-83-9	Bromomethane			not	detected	10	0.37 ug/L	0.50 ug/L	
75-00-3	Chloroethane			not	detected	nle	0.32 ug/L	0.50 ug/L	
75-69-4	Trichlorofluoromethane			not	detected	2000	0.15 ug/L	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not	detected	1	0.15 ug/L	0.50 ug/L	
67-64-1	Acetone			not	detected	6000	0.32 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not	detected	700	0.12 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not	detected	3	0.26 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not	detected	100	0.14 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not	detected	50	0.12 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not	detected	7000	0.20 ug/L	1.00 ug/L	
78-93-3	2-Butanone			not	detected	300	0.22 ug/L	0.50 ug/L	
156-59-2	cis-1,2-Dichloroethene			not	detected	70	0.12 ug/L	0.50 ug/L	
67-66-3	Chloroform			not	detected	70	0.35 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not	detected	30	0.12 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not	detected	1	0.12 ug/L	0.50 ug/L	
71-43-2	Benzene			not	detected	1	0.12 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not	detected	2	0.11 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not	detected	1	0.11 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not	detected	1	0.12 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not	detected	1	0.12 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not	detected	nle	0.24 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not	detected	1	0.13 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not	detected	nle	0.15 ug/L	0.50 ug/L	
108-88-3	Toluene			not	detected	1000	0.12 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not	detected	1	0.13 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not	detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not	detected	1	0.14 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not	detected	nle	0.17 ug/L	1.00 ug/L	
126-48-1	Dibromochloromethane			not	detected	1	0.12 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not	detected	50	0.12 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not	detected	700	0.12 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not	detected	1	0.13 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not	detected	nle	0.30 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not	detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not	detected	100	0.14 ug/L	0.50 ug/L	
75-25-2	Bromoform			not	detected	4	0.14 ug/L	0.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not	detected	1	0.14 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not	detected	600	0.16 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not	detected	75	0.15 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not	detected	600	0.13 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

200 MW#01

Lab Name: FMETL NJDEP # 13461

Project: Case No.: MW Location: SDG No.: 10371

Matrix: (soil/water) WATER Lab Sample ID: 1037104

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA7384.D

Level: (low/med) LOW Date Received: 8/30/2010

% Moisture: not dec. Date Analyzed: 9/3/2010

GC Column: Rtx-VMS 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	VA7385.D	Sample Name	1037105
Operator	ROBERTS	Field ID	200 MW#02
Date Acquired	3 Sep 2010 9:40 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	3.21 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	0.98 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.64 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether	8.00	13199	0.31 ug/L	70	0.11 ug/L	0.50 ug/L	J
108203	Di-isopropyl ether			not detected	20000	0.17 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.17 ug/L	0.50 ug/L	
74-87-3	Chloromethane			not detected	nle	0.27 ug/L	0.50 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	0.50 ug/L	
74-83-9	Bromomethane			not detected	10	0.37 ug/L	0.50 ug/L	
75-00-3	Chloroethane			not detected	nle	0.32 ug/L	0.50 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.15 ug/L	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.15 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.32 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.12 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.26 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.14 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.12 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	1.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.22 ug/L	0.50 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.12 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.35 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.12 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.12 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.12 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.11 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.11 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.12 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.24 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.15 ug/L	0.50 ug/L	
108-88-3	Toluene			not detected	1000	0.12 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.14 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.17 ug/L	1.00 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.12 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.12 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.13 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.30 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.14 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	0.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.14 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.16 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.15 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.13 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

200 MW#02

Lab Name: FMETL NJDEP # 13461

Project: Case No.: MW Location: SDG No.: 10371

Matrix: (soil/water) WATER Lab Sample ID: 1037105

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA7385.D

Level: (low/med) LOW Date Received: 8/30/2010

% Moisture: not dec. Date Analyzed: 9/3/2010

GC Column: Rtx-VMS 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	VA7386.D	Sample Name	1037106
Operator	ROBERTS	Field ID	200 MW#03
Date Acquired	3 Sep 2010 10:11 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	3.21 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	0.98 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.64 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.11 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.17 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.17 ug/L	0.50 ug/L	
74-87-3	Chloromethane			not detected	nle	0.27 ug/L	0.50 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	0.50 ug/L	
74-83-9	Bromomethane			not detected	10	0.37 ug/L	0.50 ug/L	
75-00-3	Chloroethane			not detected	nle	0.32 ug/L	0.50 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.15 ug/L	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.15 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.32 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.12 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.26 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.14 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.12 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	1.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.22 ug/L	0.50 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.12 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.35 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.12 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.12 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.12 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.11 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.11 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.12 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.24 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.15 ug/L	0.50 ug/L	
108-88-3	Toluene			not detected	1000	0.12 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.14 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.17 ug/L	1.00 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.12 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.12 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.13 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.30 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.14 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	0.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.14 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.16 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.15 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.13 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

200 MW#03

Lab Name: FMETL NJDEP # 13461

Project: Case No.: MW Location: SDG No.: 10371

Matrix: (soil/water) WATER Lab Sample ID: 1037106

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA7386.D

Level: (low/med) LOW Date Received: 8/30/2010

% Moisture: not dec. Date Analyzed: 9/3/2010

GC Column: Rtx-VMS 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	VA7387.D	Sample Name	1037107
Operator	ROBERTS	Field ID	200 MW#04
Date Acquired	3 Sep 2010 10:42 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	3.21 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	0.98 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.64 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.11 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.17 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.17 ug/L	0.50 ug/L	
74-87-3	Chloromethane			not detected	nle	0.27 ug/L	0.50 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	0.50 ug/L	
74-83-9	Bromomethane			not detected	10	0.37 ug/L	0.50 ug/L	
75-00-3	Chloroethane			not detected	nle	0.32 ug/L	0.50 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.15 ug/L	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.15 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.32 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.12 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.26 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.14 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.12 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	1.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.22 ug/L	0.50 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.12 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.35 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.12 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.12 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.12 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.11 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.11 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.12 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.24 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.15 ug/L	0.50 ug/L	
108-88-3	Toluene			not detected	1000	0.12 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.14 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.17 ug/L	1.00 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.12 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.12 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.13 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.30 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.14 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	0.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.14 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.16 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.15 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.13 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

200 MW#04

Lab Name: FMETL NJDEP # 13461

Project: Case No.: MW Location: SDG No.: 10371

Matrix: (soil/water) WATER Lab Sample ID: 1037107

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA7387.D

Level: (low/med) LOW Date Received: 8/30/2010

% Moisture: not dec. Date Analyzed: 9/3/2010

GC Column: Rtx-VMS 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	VA7388.D	Sample Name	1037108
Operator	ROBERTS	Field ID	200 MW#05
Date Acquired	3 Sep 2010 11:13 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	3.21 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	0.98 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.64 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.11 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.17 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.17 ug/L	0.50 ug/L	
74-87-3	Chloromethane			not detected	nle	0.27 ug/L	0.50 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	0.50 ug/L	
74-83-9	Bromomethane			not detected	10	0.37 ug/L	0.50 ug/L	
75-00-3	Chloroethane			not detected	nle	0.32 ug/L	0.50 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.15 ug/L	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.15 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.32 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.12 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.26 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.14 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.12 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	1.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.22 ug/L	0.50 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.12 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.35 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.12 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.12 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.12 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.11 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.11 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.12 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.24 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.15 ug/L	0.50 ug/L	
108-88-3	Toluene			not detected	1000	0.12 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.14 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.17 ug/L	1.00 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.12 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.12 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.13 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.30 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.14 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	0.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.14 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.16 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.15 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.13 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

200 MW#05

Lab Name: FMETL NJDEP # 13461

Project: Case No.: MW Location: SDG No.: 10371

Matrix: (soil/water) WATER Lab Sample ID: 1037108

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA7388.D

Level: (low/med) LOW Date Received: 8/30/2010

% Moisture: not dec. Date Analyzed: 9/3/2010

GC Column: Rtx-VMS 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	VA7389.D	Sample Name	1037109
Operator	ROBERTS	Field ID	200 MW#06
Date Acquired	3 Sep 2010 11:44 pm	Sample Multiplier	1

CAS#	Compound Name	R.T.	Response	Result	Regulatory Level (ug/l)*	MDL	RL	Qualifiers
107028	Acrolein			not detected	5	3.21 ug/L	5.00 ug/L	
107131	Acrylonitrile			not detected	2	0.98 ug/L	5.00 ug/L	
75650	tert-Butyl alcohol			not detected	100	1.64 ug/L	5.00 ug/L	
1634044	Methyl-tert-Butyl ether			not detected	70	0.11 ug/L	0.50 ug/L	
108203	Di-isopropyl ether			not detected	20000	0.17 ug/L	0.50 ug/L	
75718	Dichlorodifluoromethane			not detected	1000	0.17 ug/L	0.50 ug/L	
74-87-3	Chloromethane			not detected	nle	0.27 ug/L	0.50 ug/L	
75-01-4	Vinyl Chloride			not detected	1	0.22 ug/L	0.50 ug/L	
74-83-9	Bromomethane			not detected	10	0.37 ug/L	0.50 ug/L	
75-00-3	Chloroethane			not detected	nle	0.32 ug/L	0.50 ug/L	
75-69-4	Trichlorofluoromethane			not detected	2000	0.15 ug/L	0.50 ug/L	
75-35-4	1,1-Dichloroethene			not detected	1	0.15 ug/L	0.50 ug/L	
67-64-1	Acetone			not detected	6000	0.32 ug/L	0.50 ug/L	
75-15-0	Carbon Disulfide			not detected	700	0.12 ug/L	0.50 ug/L	
75-09-2	Methylene Chloride			not detected	3	0.26 ug/L	0.50 ug/L	
156-60-5	trans-1,2-Dichloroethene			not detected	100	0.14 ug/L	0.50 ug/L	
75-35-3	1,1-Dichloroethane			not detected	50	0.12 ug/L	0.50 ug/L	
108-05-4	Vinyl Acetate			not detected	7000	0.20 ug/L	1.00 ug/L	
78-93-3	2-Butanone			not detected	300	0.22 ug/L	0.50 ug/L	
156-59-2	cis-1,2-Dichloroethene			not detected	70	0.12 ug/L	0.50 ug/L	
67-66-3	Chloroform			not detected	70	0.35 ug/L	0.50 ug/L	
75-55-6	1,1,1-Trichloroethane			not detected	30	0.12 ug/L	0.50 ug/L	
56-23-5	Carbon Tetrachloride			not detected	1	0.12 ug/L	0.50 ug/L	
71-43-2	Benzene			not detected	1	0.12 ug/L	0.50 ug/L	
107-06-2	1,2-Dichloroethane			not detected	2	0.11 ug/L	0.50 ug/L	
79-01-6	Trichloroethene			not detected	1	0.11 ug/L	0.50 ug/L	
78-87-5	1,2-Dichloropropane			not detected	1	0.12 ug/L	0.50 ug/L	
75-27-4	Bromodichloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
110-75-8	2-Chloroethyl vinyl ether			not detected	nle	0.24 ug/L	1.00 ug/L	
10061-01-5	cis-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
108-10-1	4-Methyl-2-Pentanone			not detected	nle	0.15 ug/L	0.50 ug/L	
108-88-3	Toluene			not detected	1000	0.12 ug/L	0.50 ug/L	
10061-02-6	trans-1,3-Dichloropropene			not detected	1	0.13 ug/L	0.50 ug/L	
79-00-5	1,1,2-Trichloroethane			not detected	3	0.14 ug/L	0.50 ug/L	
127-18-4	Tetrachloroethene			not detected	1	0.14 ug/L	0.50 ug/L	
591-78-6	2-Hexanone			not detected	nle	0.17 ug/L	1.00 ug/L	
126-48-1	Dibromochloromethane			not detected	1	0.12 ug/L	0.50 ug/L	
108-90-7	Chlorobenzene			not detected	50	0.12 ug/L	0.50 ug/L	
100-41-4	Ethylbenzene			not detected	700	0.12 ug/L	0.50 ug/L	
630-20-6	1,1,1,2-tetrachloroethane			not detected	1	0.13 ug/L	0.50 ug/L	
1330-20-7	m+p-Xylenes			not detected	nle	0.30 ug/L	1.00 ug/L	
1330-20-7	o-Xylene			not detected	nle	0.14 ug/L	0.50 ug/L	
100-42-5	Styrene			not detected	100	0.14 ug/L	0.50 ug/L	
75-25-2	Bromoform			not detected	4	0.14 ug/L	0.50 ug/L	
79-34-5	1,1,2,2-Tetrachloroethane			not detected	1	0.14 ug/L	0.50 ug/L	
541-73-1	1,3-Dichlorobenzene			not detected	600	0.16 ug/L	0.50 ug/L	
106-46-7	1,4-Dichlorobenzene			not detected	75	0.15 ug/L	0.50 ug/L	
95-50-1	1,2-Dichlorobenzene			not detected	600	0.13 ug/L	0.50 ug/L	

*Results between MDL and RL are estimated values

*Higher of PQL's and Ground Water Quality Criteria as per N.J.A.C. 7:9C 07Nov2005

Qualifiers

B = Compound found in related blank
E = Value above linear range
D = Value from dilution
PQL = Practical Quantitation Limit
J= Estimated concentration, value falls between R.L. and M.D.L.

MDL = Method Detection Limit
NLE = No Limit Established
R.T. = Retention Time
R.L. = Reporting Limit

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VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

FIELD ID.

200 MW#06

Lab Name: FMETL NJDEP # 13461

Project: Case No.: MW Location: SDG No.: 10371

Matrix: (soil/water) WATER Lab Sample ID: 1037109

Sample wt/vol: 5.0 (g/ml) ML Lab File ID: VA7389.D

Level: (low/med) LOW Date Received: 8/30/2010

% Moisture: not dec. Date Analyzed: 9/3/2010

GC Column: Rtx-VMS 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 ORGANICS

Raw Data: Z58200.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	1037102 FIELD BLANK		
Lab Sample ID:	JA55189-1	Date Sampled:	08/30/10
Matrix:	AQ - Field Blank Water	Date Received:	08/31/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z58200.D	1	09/11/10	LP	09/02/10	OP45444	EZ3096
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-86-2	Acetophenone	ND	2.0	0.40	ug/l	
1912-24-9	Atrazine	ND	5.0	0.39	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.40	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.35	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.25	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.42	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.25	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
105-60-2	Caprolactam	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.25	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.39	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.22	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.30	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.40	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.17	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.13	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.24	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.21	ug/l	
78-59-1	Isophorone	ND	2.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.24	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.29	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.18	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.25	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1037102 FIELD BLANK		
Lab Sample ID:	JA55189-1	Date Sampled:	08/30/10
Matrix:	AQ - Field Blank Water	Date Received:	08/31/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	91%		25-112%
321-60-8	2-Fluorobiphenyl	97%		31-106%
1718-51-0	Terphenyl-d14	68%		14-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1037102 FIELD BLANK		
Lab Sample ID:	JA55189-1	Date Sampled:	08/30/10
Matrix:	AQ - Field Blank Water	Date Received:	08/31/10
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M21732.D	1	09/13/10	KLS	09/02/10	OP45444A	E3M932
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.029	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.039	ug/l	
120-12-7	Anthracene	ND	0.10	0.026	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.028	ug/l	
218-01-9	Chrysene	ND	0.10	0.022	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.023	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.024	ug/l	
86-73-7	Fluorene	ND	0.10	0.027	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.0099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.029	ug/l	
91-20-3	Naphthalene	ND	0.10	0.019	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.036	ug/l	
129-00-0	Pyrene	ND	0.10	0.022	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	107%		18-119%
321-60-8	2-Fluorobiphenyl	87%		18-104%
1718-51-0	Terphenyl-d14	79%		13-109%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: Z58201.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	1037103 DUPLICATE		
Lab Sample ID:	JA55189-2	Date Sampled:	08/30/10
Matrix:	AQ - Water	Date Received:	08/31/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z58201.D	1	09/11/10	LP	09/02/10	OP45444	EZ3096
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-86-2	Acetophenone	ND	2.0	0.40	ug/l	
1912-24-9	Atrazine	ND	5.0	0.39	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.40	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.35	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.25	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.42	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.25	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
105-60-2	Caprolactam	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.25	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.39	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.22	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.30	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.40	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.17	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.13	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.24	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.21	ug/l	
78-59-1	Isophorone	ND	2.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.24	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.29	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.18	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.25	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1037103 DUPLICATE		
Lab Sample ID:	JA55189-2	Date Sampled:	08/30/10
Matrix:	AQ - Water	Date Received:	08/31/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	91%		25-112%
321-60-8	2-Fluorobiphenyl	95%		31-106%
1718-51-0	Terphenyl-d14	88%		14-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: 3M21736.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	1037103 DUPLICATE		
Lab Sample ID:	JA55189-2	Date Sampled:	08/30/10
Matrix:	AQ - Water	Date Received:	08/31/10
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M21736.D	1	09/13/10	KLS	09/02/10	OP45444A	E3M932
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.029	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.039	ug/l	
120-12-7	Anthracene	ND	0.10	0.026	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.028	ug/l	
218-01-9	Chrysene	ND	0.10	0.022	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.023	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.024	ug/l	
86-73-7	Fluorene	ND	0.10	0.027	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.0099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.029	ug/l	
91-20-3	Naphthalene	ND	0.10	0.019	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.036	ug/l	
129-00-0	Pyrene	ND	0.10	0.022	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	107%		18-119%
321-60-8	2-Fluorobiphenyl	87%		18-104%
1718-51-0	Terphenyl-d14	106%		13-109%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: Z58202.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	1037104 200MW01		
Lab Sample ID:	JA55189-3	Date Sampled:	08/30/10
Matrix:	AQ - Water	Date Received:	08/31/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z58202.D	1	09/11/10	LP	09/02/10	OP45444	EZ3096
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-86-2	Acetophenone	ND	2.0	0.40	ug/l	
1912-24-9	Atrazine	ND	5.0	0.39	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.40	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.35	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.25	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.42	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.25	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
105-60-2	Caprolactam	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.25	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.39	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.22	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.30	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.40	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.17	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.13	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.24	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.21	ug/l	
78-59-1	Isophorone	ND	2.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.24	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.29	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.18	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.25	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1037104 200MW01		
Lab Sample ID:	JA55189-3	Date Sampled:	08/30/10
Matrix:	AQ - Water	Date Received:	08/31/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	86%		25-112%
321-60-8	2-Fluorobiphenyl	92%		31-106%
1718-51-0	Terphenyl-d14	83%		14-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: 3M21737.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	1037104 200MW01		
Lab Sample ID:	JA55189-3	Date Sampled:	08/30/10
Matrix:	AQ - Water	Date Received:	08/31/10
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M21737.D	1	09/13/10	KLS	09/02/10	OP45444A	E3M932
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.029	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.039	ug/l	
120-12-7	Anthracene	ND	0.10	0.026	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.028	ug/l	
218-01-9	Chrysene	ND	0.10	0.022	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.023	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.024	ug/l	
86-73-7	Fluorene	ND	0.10	0.027	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.0099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.029	ug/l	
91-20-3	Naphthalene	ND	0.10	0.019	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.036	ug/l	
129-00-0	Pyrene	ND	0.10	0.022	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	105%		18-119%
321-60-8	2-Fluorobiphenyl	81%		18-104%
1718-51-0	Terphenyl-d14	97%		13-109%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: Z58203.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	1037105 200MW02		
Lab Sample ID:	JA55189-4	Date Sampled:	08/30/10
Matrix:	AQ - Water	Date Received:	08/31/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z58203.D	1	09/11/10	LP	09/02/10	OP45444	EZ3096
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-86-2	Acetophenone	ND	2.0	0.40	ug/l	
1912-24-9	Atrazine	ND	5.0	0.39	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.40	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.35	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.25	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.42	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.25	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
105-60-2	Caprolactam	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.25	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.39	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.22	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.30	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.40	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.17	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.13	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.24	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.21	ug/l	
78-59-1	Isophorone	ND	2.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.24	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.29	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.18	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.25	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1037105 200MW02		
Lab Sample ID:	JA55189-4	Date Sampled:	08/30/10
Matrix:	AQ - Water	Date Received:	08/31/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	89%		25-112%
321-60-8	2-Fluorobiphenyl	92%		31-106%
1718-51-0	Terphenyl-d14	84%		14-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: 3M21738.D

Accutest Laboratories

Report of Analysis

3.4
35

Client Sample ID:	1037105 200MW02		
Lab Sample ID:	JA55189-4	Date Sampled:	08/30/10
Matrix:	AQ - Water	Date Received:	08/31/10
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M21738.D	1	09/13/10	KLS	09/02/10	OP45444A	E3M932
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.029	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.039	ug/l	
120-12-7	Anthracene	ND	0.10	0.026	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.028	ug/l	
218-01-9	Chrysene	ND	0.10	0.022	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.023	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.024	ug/l	
86-73-7	Fluorene	ND	0.10	0.027	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.0099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.029	ug/l	
91-20-3	Naphthalene	ND	0.10	0.019	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.036	ug/l	
129-00-0	Pyrene	ND	0.10	0.022	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	106%		18-119%
321-60-8	2-Fluorobiphenyl	83%		18-104%
1718-51-0	Terphenyl-d14	101%		13-109%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

000064

Raw Data: Z58204.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	1037106 200MW03		
Lab Sample ID:	JA55189-5	Date Sampled:	08/30/10
Matrix:	AQ - Water	Date Received:	08/31/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z58204.D	1	09/11/10	LP	09/02/10	OP45444	EZ3096
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-86-2	Acetophenone	ND	2.0	0.40	ug/l	
1912-24-9	Atrazine	ND	5.0	0.39	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.40	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.35	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.25	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.42	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.25	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
105-60-2	Caprolactam	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.25	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.39	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.22	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.30	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.40	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.17	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.13	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.24	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.21	ug/l	
78-59-1	Isophorone	ND	2.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.24	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.29	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.18	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.25	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1037106 200MW03		
Lab Sample ID:	JA55189-5	Date Sampled:	08/30/10
Matrix:	AQ - Water	Date Received:	08/31/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	88%		25-112%
321-60-8	2-Fluorobiphenyl	89%		31-106%
1718-51-0	Terphenyl-d14	92%		14-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1037106 200MW03		
Lab Sample ID:	JA55189-5	Date Sampled:	08/30/10
Matrix:	AQ - Water	Date Received:	08/31/10
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M21739.D	1	09/13/10	KLS	09/02/10	OP45444A	E3M932
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.029	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.039	ug/l	
120-12-7	Anthracene	ND	0.10	0.026	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.028	ug/l	
218-01-9	Chrysene	ND	0.10	0.022	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.023	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.024	ug/l	
86-73-7	Fluorene	ND	0.10	0.027	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.0099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.029	ug/l	
91-20-3	Naphthalene	ND	0.10	0.019	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.036	ug/l	
129-00-0	Pyrene	ND	0.10	0.022	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	103%		18-119%
321-60-8	2-Fluorobiphenyl	77%		18-104%
1718-51-0	Terphenyl-d14	105%		13-109%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: Z58205.D

Accutest Laboratories

Report of Analysis

3.6

Client Sample ID:	1037107 200MW04		
Lab Sample ID:	JA55189-6	Date Sampled:	08/30/10
Matrix:	AQ - Water	Date Received:	08/31/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z58205.D	1	09/11/10	LP	09/02/10	OP45444	EZ3096
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-86-2	Acetophenone	ND	2.0	0.40	ug/l	
1912-24-9	Atrazine	ND	5.0	0.39	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.40	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.35	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.25	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.42	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.25	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
105-60-2	Caprolactam	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.25	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.39	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.22	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.30	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.40	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.17	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.13	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.24	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.21	ug/l	
78-59-1	Isophorone	ND	2.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.24	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.29	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.18	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.25	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

000068

Report of Analysis

Client Sample ID:	1037107 200MW04		
Lab Sample ID:	JA55189-6	Date Sampled:	08/30/10
Matrix:	AQ - Water	Date Received:	08/31/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	89%		25-112%
321-60-8	2-Fluorobiphenyl	94%		31-106%
1718-51-0	Terphenyl-d14	87%		14-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest Laboratories

Report of Analysis

Client Sample ID:	1037107 200MW04		
Lab Sample ID:	JA55189-6	Date Sampled:	08/30/10
Matrix:	AQ - Water	Date Received:	08/31/10
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M21740.D	1	09/13/10	KLS	09/02/10	OP45444A	E3M932
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	0.178	0.10	0.029	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.039	ug/l	
120-12-7	Anthracene	ND	0.10	0.026	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.028	ug/l	
218-01-9	Chrysene	ND	0.10	0.022	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.023	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.024	ug/l	
86-73-7	Fluorene	0.160	0.10	0.027	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.0099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.029	ug/l	
91-20-3	Naphthalene	ND	0.10	0.019	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.036	ug/l	
129-00-0	Pyrene	ND	0.10	0.022	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	99%		18-119%
321-60-8	2-Fluorobiphenyl	76%		18-104%
1718-51-0	Terphenyl-d14	93%		13-109%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

000070

Raw Data: Z58206.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	1037108 200MW05		
Lab Sample ID:	JA55189-7	Date Sampled:	08/30/10
Matrix:	AQ - Water	Date Received:	08/31/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z58206.D	1	09/11/10	LP	09/02/10	OP45444	EZ3096
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-86-2	Acetophenone	ND	2.0	0.40	ug/l	
1912-24-9	Atrazine	ND	5.0	0.39	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.40	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.35	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.25	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.42	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.25	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
105-60-2	Caprolactam	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.25	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.39	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.22	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.30	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.30	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.40	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.17	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.13	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.24	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.21	ug/l	
78-59-1	Isophorone	ND	2.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.24	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.29	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.18	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.25	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1037108 200MW05		
Lab Sample ID:	JA55189-7	Date Sampled:	08/30/10
Matrix:	AQ - Water	Date Received:	08/31/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	92%		25-112%
321-60-8	2-Fluorobiphenyl	95%		31-106%
1718-51-0	Terphenyl-d14	85%		14-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: 3M21741.D

Accutest Laboratories

Report of Analysis

3.1.3

Client Sample ID:	1037108 200MW05		
Lab Sample ID:	JA55189-7	Date Sampled:	08/30/10
Matrix:	AQ - Water	Date Received:	08/31/10
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M21741.D	1	09/13/10	KLS	09/02/10	OP45444A	E3M932
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.029	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.039	ug/l	
120-12-7	Anthracene	ND	0.10	0.026	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.028	ug/l	
218-01-9	Chrysene	ND	0.10	0.022	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.023	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.024	ug/l	
86-73-7	Fluorene	ND	0.10	0.027	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.0099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.029	ug/l	
91-20-3	Naphthalene	ND	0.10	0.019	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.036	ug/l	
129-00-0	Pyrene	ND	0.10	0.022	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	108%		18-119%
321-60-8	2-Fluorobiphenyl	84%		18-104%
1718-51-0	Terphenyl-d14	96%		13-109%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: Z58207.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	1037109 200MW06		
Lab Sample ID:	JA55189-8	Date Sampled:	08/30/10
Matrix:	AQ - Water	Date Received:	08/31/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z58207.D	1	09/11/10	LP	09/02/10	OP45444	EZ3096
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
98-86-2	Acetophenone	ND	2.0	0.40	ug/l	
1912-24-9	Atrazine	ND	5.0	0.39	ug/l	
100-52-7	Benzaldehyde	ND	5.0	0.40	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.35	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.25	ug/l	
92-52-4	1,1'-Biphenyl	3.3	1.0	0.42	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.42	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.25	ug/l	
86-74-8	Carbazole	ND	1.0	0.17	ug/l	
105-60-2	Caprolactam	ND	2.0	0.20	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.25	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.31	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.0	0.39	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.22	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.33	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.30	ug/l	
132-64-9	Dibenzofuran	2.3	5.0	0.30	ug/l	J
84-74-2	Di-n-butyl phthalate	ND	2.0	0.19	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.40	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.17	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.23	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.33	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.13	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	20	0.24	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.21	ug/l	
78-59-1	Isophorone	ND	2.0	0.25	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.66	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	0.24	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	0.29	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	0.18	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.25	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	1037109 200MW06		
Lab Sample ID:	JA55189-8	Date Sampled:	08/30/10
Matrix:	AQ - Water	Date Received:	08/31/10
Method:	SW846 8270C SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

BN TCL42 List

CAS No.	Compound	Result	RL	MDL	Units	Q
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.44	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.22	ug/l	
85-01-8	Phenanthrene	5.6	1.0	0.21	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	88%		25-112%
321-60-8	2-Fluorobiphenyl	90%		31-106%
1718-51-0	Terphenyl-d14	86%		14-122%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Raw Data: 3M21742.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	1037109 200MW06		
Lab Sample ID:	JA55189-8	Date Sampled:	08/30/10
Matrix:	AQ - Water	Date Received:	08/31/10
Method:	SW846 8270C BY SIM SW846 3510C	Percent Solids:	n/a
Project:	New Wells Area 200		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3M21742.D	1	09/13/10	KLS	09/02/10	OP45444A	E3M932
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	0.10	0.029	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.039	ug/l	
120-12-7	Anthracene	ND	0.10	0.026	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.031	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.036	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.029	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.028	ug/l	
218-01-9	Chrysene	ND	0.10	0.022	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.023	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.024	ug/l	
86-73-7	Fluorene	0.316	0.10	0.027	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.0099	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.029	ug/l	
91-20-3	Naphthalene	0.193	0.10	0.019	ug/l	
129-00-0	Pyrene	ND	0.10	0.022	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	104%		18-119%
321-60-8	2-Fluorobiphenyl	75%		18-104%
1718-51-0	Terphenyl-d14	97%		13-109%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

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LABORATORY DELIVERABLES CHECKLIST AND NON-CONFORMANCE SUMMARY

THIS FORM MUST BE COMPLETED BY THE LABORATORY OR ENVIRONMENTAL CONSULTANT AND ACCOMPANY ALL DATA SUBMISSIONS

The following Laboratory Deliverables Checklist and Non-Conformance Summary shall be included in the data submission. All deviations from the accepted methodology and procedures, of performance values outside acceptable ranges shall be summarized in the Non-Conformance Summary. The Technical Requirements for Site Remediation, effective June 7, 1993, provides further details. The document shall be bound and paginated, contain a table of contents, and all pages shall be legible. Incomplete data packages will be returned or held without review until the data package is completed.

It is recommended that the analytical results summary sheets listing all targeted and non-targeted compounds with the method detection limits, practical quantitation limits, and the laboratory and/or sample numbers be included in one section of the data package <u>and</u> in the main body of the report.

1.	Cover Page, Title Page listing Lab Certification #, facility name and address, & date of report submitted.	✓
2.	Table of Contents submitted.	✓
3.	Summary Sheets listing analytical results for all targeted and non-targeted compounds submitted.	✓
4.	Document paginated and legible.	✓
5.	Chain of Custody submitted.	✓
6.	Samples submitted to lab within 48 hours of sample collection.	✓
7.	Methodology Summary submitted.	✓
8.	Laboratory Chronicle and Holding Time Check submitted.	✓
9.	Results submitted on a dry weight basis.	✓
10.	Method Detection Limits submitted.	✓
11.	Lab certified by NJDEP for parameters of appropriate category of parameters or a member of the USEPA CLP.	✓

Laboratory Manager or Environmental Consultant's Signature Jean Tarchalski

Date: 10/6/10

Laboratory Certification # 13461

*Refer to NJAC 7:26E – Appendix A, Section IV – Reduced Data Deliverables – Non-USEPA/CLP Methods for further guidance.

Laboratory Authentication Statement

I certify under penalty of law, where applicable, that this laboratory meets the Laboratory Performance Standards and Quality Control requirements specified in N.J.A.C. 7:18 and 40 CFR Part 136 for Water and Wastewater Analyses and SW-846 for Solid Waste Analysis. I have personally examined the information contained in this report and to the best of my knowledge, I believe that the submitted information is true, accurate, complete and meets the above referenced standards where applicable. I am aware that there are significant penalties for purposefully submitting falsified information, including the possibility of a fine and imprisonment.

Dean Tardiff 10/6/16
Dean Tardiff
Laboratory Manager

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Bibliography

Geophysical Survey – Final Report Reevaluation of Previous Survey Data for 200, 400, 700, and 800 Areas, Fort Monmouth, NJ, Enviroscan Project Number 100814