



DEPARTMENT OF THE ARMY

OFFICE OF ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT
U.S. ARMY FORT MONMOUTH
P.O. 148
OCEANPORT, NEW JERSEY 07757

01 July 2016

Ms. Linda Range
Case Manager
New Jersey Department of Environmental Protection
Bureau of Southern Field Operations
401 East State Street, 5th Floor
PO Box 407
Trenton, NJ 08625

**Re: Site Investigation Addendum Letter Report for Parcel 28-Former Eatontown
Laboratory, Fort Monmouth, NJ
PI G000000032**

Attachment:

A. Previous Parcel 28 Correspondence and Historical Information

Figure:

Figure 1 - Layout of Parcel 28 and Sample Location

Table:

Table 1 - Groundwater Sampling Results

Previous Correspondence (provided in Attachment A):

1. Army letter to NJDEP dated June 4, 2015, re: Request for NFA at Parcel 28
2. NJDEP letter to the Army dated September 22, 2015, re: *Request for No Further Action at Parcel 28*
3. Army letter to NJDEP dated April 4, 2016, re: Responses to NJDEP September 22, 2015 comments

Dear Ms. Range:

The U.S. Army Fort Monmouth (FTMM) has prepared this Site Investigation (SI) Addendum Letter Report for the data recently collected at the former gas station at former Building 2541 located at the non-Installation Restoration Program (non-IRP) Parcel 28 Former Eatontown Laboratory Site. Correspondence 1 (**Attachment A**) from the Army requested No Further Action (NFA) determinations for underground storage tanks (USTs), three former septic tanks, and a former gasoline station associated with Building 2541 at Parcel 28 from the New Jersey Department of Environmental Protection (NJDEP). Correspondence 2 (**Attachment A**) from the NJDEP provides NFA determinations at Parcel 28 except for the former gas station; the NJDEP requested additional groundwater sampling for lead to demonstrate that past elevated lead concentrations in the groundwater were the result of elevated sample turbidity and not associated with a potential release from the former station.

Parcel 28, the Former Eatontown Laboratory Complex, consists of approximately 30 acres in the Charles Wood Area (CWA) encompassing Buildings 2525, 2535, 2539, 2540, and surrounding

land. The location and layout of Parcel 28 including the former gas station at former building 2541 is presented on the **Figure 1**.

In accordance with Correspondence 2 (**Attachment A**), one permanent groundwater monitoring well (PAR-28-MW-01) was installed to a depth of 14 feet bgs adjacent to the location (**see Figure 1**) where the highest lead concentration was detected during the previous groundwater sampling event in a sample collected from a temporary groundwater monitoring well. Prior to sampling, the monitoring well was developed using surge and purge methods in accordance with the procedure outlined in the NJDEP Field Sampling Procedures Manual ([FSPM]; NJDEP, 2005).

Following development and a 14 day stabilization period, the well was sampled on May 23, 2016 for lead (total and dissolved) using low-flow purging and sampling (LFPS) method to minimize sample turbidity. The samples were collected only after the monitored parameters had achieved stabilization in accordance with the NJDEP FSPM (NJDEP, 2005).

The total lead concentration reported in the groundwater sample from PAR-28-MW-01 was non-detect above the method detection limit of 2.2 µg/L which is below the NJDEP Groundwater Quality Standard (GWQS) of 5 µg/L (**Table 1**).

In summary, the Army requests a NFA for Parcel 28. The technical Point of Contact (POC) for this matter is Cris Grill. Ms. Grill can be reached at (617) 449-1583 or by email at cris.grill@parsons.com. Should you have any questions or require additional information, please contact me by phone at (732) 380-7064 or by email at william.r.colvin18.civ@mail.mil.

Sincerely,



William R. Colvin
BRAC Environmental Coordinator

cc: Delight Balducci, HQDA ACSIM
Joseph Pearson, Calibre
James Moore, USACE
Cris Grill, Parsons



New Jersey Department of Environmental Protection
Site Remediation Program

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

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

Document: "Final Site Investigation Addendum Letter Report for Parcel 28"

PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: William R. Colvin

Representative First Name: William Representative Last Name: Colvin

Title: BRAC Environmental Coordinator

Phone Number: (732) 380-7064

Ext:

Fax:

Mailing Address: P.O. Box 148

City/Town: Oceanport

State: NJ

Zip Code: 07757

Email Address: william.r.colvin18.civ@mail.mil

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

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

Signature:

Date: 01 July 2016

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

ATTACHMENT A
Previous Parcel 28 Correspondence and Historical Information



DEPARTMENT OF THE ARMY

OFFICE OF ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT
U.S. ARMY FORT MONMOUTH
P.O. 148
OCEANPORT, NEW JERSEY 07757

June 4, 2015

Ms. Linda Range
New Jersey Department of Environmental Protection
Case Manager
Bureau of Southern Field Operations
401 East State Street, 5th Floor
PO Box 407
Trenton, NJ 08625

**Re: Request for No Further Action at Parcel 28
Site Investigation Report Addendum
Fort Monmouth, New Jersey**

Attachments:

- A. Figure 1 Parcel 28 Layout and Sample Locations
- B. UHOT Closure Documentation
- C. Table 1 Soil Sampling Results
- D. Table 2 Groundwater Sampling Results
- E. Laboratory Data Reports
- F. CWA Geothermal Well Layout Locations

Previous Correspondence and Reports (not attached):

- 1. NJDEP letter to the U.S. Army dated July 10, 2012, re: *March 2012 Army Response to NJDEP Correspondence Letter Dated October 28, 2008.*
- 2. U.S. Army BRAC, July 2008, *US ARMY BRAC 2005 Site Investigation Report, Fort Monmouth*
- 3. NJDEP letter to the U.S. Army dated April 29, 2013, re: *Draft Finding of Suitability to Transfer (FOST) dated March 2013.*
- 4. U.S. Army letter to NJDEP dated May 17, 2013, re: *Proposed Test Pit Investigation Plan for Parcel 28 Historical Septic Tank Systems and Gas Station, Charles Wood area, Fort Monmouth, New Jersey.*
- 5. NJDEP letter to the U.S. Army dated June 3, 2013, re: *Proposed Test Pit Investigation Plan for Parcel 28 Historical Septic Tank Systems and Gas Station, Charles Wood area, Fort Monmouth, New Jersey.*

Dear Ms. Range:

In response to the New Jersey Department of Environmental Protection (NJDEP) letter to the U.S. Army (Army) dated July 10, 2012 (Correspondence 1) regarding the information presented in the July 2008 Site Investigation Report (Correspondence 2), the U.S. Army Fort Monmouth (FTMM) and Parsons have reviewed the additional data collected within Environmental Condition of Property (ECP) Parcel 28. The purpose of this letter is to provide support for a No

Further Action (NFA) determination by NJDEP for Parcel 28. This letter report serves as an addendum to the previously submitted 2008 Site Investigation Report.

Parcel 28, the Former Eatontown Laboratory Complex consists of an area of approximately 30 acres that encompasses Buildings 2525, 2560, 2539, 2540, 2541 and the land in this area. Building 2525 was constructed in 1941 and 1942 and was used as a chemical laboratory consisting of six bays; however, the locations of the bays are unknown. Activities conducted in Building 2525 included crystal growing and processing operations in the early 1950s. The Eatontown Signal Laboratory, formerly part of the Eatontown Laboratory Complex, was renamed Watson Laboratories in 1945 and subsequently moved to Rome, New York in 1951.

The NJDEP requested further evaluation of three former septic systems in their letter dated July 10, 2012 (Correspondence 1). Additionally, a letter was sent by the NJDEP to FTMM on April 29, 2013 (Correspondence 3) that requested investigation of an uncategorized area (the location of the former UST 2525A) within Parcel 28. The Army provided a response to the NJDEP's letter on May 17, 2013, (Correspondence 4) indicated that although they believed that the septic system components were removed during the renovation of the buildings associated with the Eatontown Laboratories (Circa 1951), they will perform test pit excavations and sampling at the three former septic system locations, as well as an investigation of a former gas station located northeast of Building 2525 and associated with former Building 2541 (which is based on a hand-drawn sketch of the CWA dated June 30, 1944). The location of the former septic systems and the former gas station is depicted on **Figure 1** provided in **Attachment A**. The Army's proposal was approved by the NJDEP on June 3, 2013 (Correspondence 5).

Correspondence 1 and 3 from the NJDEP requested additional documentation on underground storage tanks (USTs) within Parcel 28, most of which are unregulated heating oil tanks (UHOTs). A compilation of the 16 USTs located within Parcel 28, and documentation of the location and closure status of each, is provided in **Attachment B**. All but two of the USTs have previously been approved for NFA by NJDEP; the closure sample results for the remaining two (2542-29 and 2564-32) were not detected for total petroleum hydrocarbons (TPH), as previously reported to NJDEP in attachments to the draft final (August 2013) *Finding of Suitability to Transfer (FOST)*, *Fort Monmouth, Charles Wood Area* (also known as the Phase 1 FOST). Therefore, we request NJDEP approval of NFA for UHOTs 2542-29 and 2564-32 as part of this current submittal.

The Army further investigated Parcel 28 in July 2013 which focused on: 1) former septic system and septic tank A (identified as SSTA) located northeast of Building 2525; 2) former gas station (identified as FGS) associated with former Building 2541; 3) former septic system (identified as SSEH) located east of Heliport Drive and south of Radiac Way; and 4) former septic system (identified as SSSC) located at the southeastern corner of Parcel 28. The investigation program at the four locations consisted of the excavation of test pits with soil sampling and the collection of groundwater samples collected from temporary monitoring wells installed using direct push methods. The test pits including the soil sampling were completed during the initial mobilization phase of the investigation. As part of a second mobilization in August 2013, groundwater samples were collected from 1-inch diameter 10-slot temporary wells installed within the

backfilled test pit using direct push technology. Three well volumes were removed from each well prior to sampling; and both purging and sampling were completed using a Teflon bailer.

Soil and groundwater samples collected as part of this investigation were analyzed by Accutest Laboratories of Dayton, New Jersey, a NJDEP-accredited laboratory. Soil sample results are presented on **Table 1** (included as **Attachment C**) along with the NJDEP Residential Direct Contact Soil Remediation Standards (RDSCRS), the Non-Residential Direct Contact Soil Remediation Standards (NRDSCRS), and the Impacts to Groundwater Soil Screening Levels (IGWSSL). The groundwater sample results are presented on **Table 2** (included as **Attachment D**) along with the NJDEP Groundwater Quality Standard (GWQS). The laboratory data reports are provided as **Attachment E**. The following text presents the results of the investigations conducted at the four locations within Parcel 28.

Former Septic System and Septic Tank A

To determine the composition of the waste stream that entered the septic holding tank and associated leach field, the Army proposed five test pits (SSTA-A through SSTA-E, as shown in **Attachment A**) with one test pit located at the septic holding tank and four test pits located within the leach field. Two (SSTA-D and SSTA-E) of the five test pits were excavated since the remaining test pits (SSTA-A, SSTA-B, and SSTA-C) were located in the area of the existing geothermal well field. (The geothermal well field location is provided in **Attachment F**. The well field supports the Building 2525 closed-loop geothermal heating and cooling system, and therefore must be protected from subsurface disturbances to maintain building operations.) Test pit SSTA-D was terminated at a depth of approximately three feet below ground surface (bgs) when a component of the geothermal system was observed in the test pit and as a result no soil samples were collected from this location. Test pit SSTA-E was excavated to the depth of approximately 8 feet bgs; soils encountered consisted of brown orange sand with no odors or staining observed. A soil sample was collected (since no sludge was observed within the excavation) from a depth of approximately 7.5 to 8 feet bgs in SSTA-E which at the time of collection was within 6-inches from the observed groundwater table. There was no septic tank encountered in the test pits.

The soil sample (Parcel 28-SSTA-E [7.5-8.0]) was analyzed for USEPA Target Compound List plus Tentatively Identified Compounds (TICs)/Target Analyte List (TCL+TICs/TAL), which includes volatile organic compounds (VOC), semivolatile organic compounds (SVOC), metals, pesticides and polychlorinated biphenyls (PCBs). The sample was also analyzed for hexavalent chromium, extractable petroleum hydrocarbons (EPH) and pH. The soil sample results are provided in **Attachment C**. Pesticides, EPH, and PCBs were not detected in the soil sample. Detections of VOCs, SVOCs, and metals were below their respective RDSCRS. One metal, aluminum detected at a concentration of 8,250 mg/kg, exceeded the IGWSSL of 6,000 mg/kg but is below the background value of 15,700 mg/kg established for the Charles Wood Area (CWA) in the 1995 Weston Report Final Site Investigation, Fort Monmouth, New Jersey, Main Post and Charles Wood Area (1995 Weston).

One groundwater sample (Parcel 28-GW-SSTA-E) was collected from a temporary monitoring well installed within test pit SSTA-E. The groundwater sample collected with a bailer was analyzed for TCL+TICs/TAL, EPH, hexavalent chromium and pH. The groundwater sample

results are provided in **Attachment D**. VOCs, pesticides, PCBs, hexavalent chromium, and EPH were not detected in the groundwater sample. SVOC TICs were detected in only one sample and at concentrations significantly below the GWQS of 500 µg/L. Aluminum (2,960 µg/L), iron (4,420 µg/L), and manganese (89.6 µg/L) were detected above their respective GWQS but below the CWA background values (Weston, 1995). Sodium (176,000 µg/L) was detected above both the NJDEP GWQS and the CWA background values (Weston, 1995); however, sodium is considered an essential nutrient and therefore not a COPC. In addition, since these samples were collected with a bailer from each temporary well the sample turbidity was likely high, which would cause the metal results to be biased high and, therefore, not representative of actual site conditions.

Evidence of the former septic system tank was not observed during the excavation of the test pits. Furthermore the presence of the geothermal well field indicates that the former septic system and associated components were likely removed to allow for the installation of the geothermal well field system. The soil and groundwater laboratory results from the investigation indicate that the soil and groundwater were not impacted by the former septic system.

Former Gas Station at Former Building 2541

To determine if any remnants of the gas station remain and if a potential release may have occurred from the former station, five test pits (FGS-A through FGS-E as shown in **Attachment A**) were excavated in the area of the former gas station. The test pits were advanced to a depth of approximately 6.5 feet bgs. The soil encountered from 0-3 feet bgs generally consisted of an orange brown sandy fill and from 3-6 feet bgs consisted of green/black glauconitic sand, with the exception of pea stone observed in test pit FGS-A. The soils were visually examined for staining and screened with a photoionization detector (PID). Impacted soil was not observed within the test pits; therefore one soil sample from each test pit was collected at a depth of 6 to 6.5 feet bgs, which at the time of collection was within six inches from the observed groundwater table.

The five soil samples (Parcel 28-FGS-A [6-6.5] through Parcel 28-FGS-E [6-6.5]) were analyzed for VOCs with a library search of the fifteen highest TICs (VOC+15) and lead. The soil results are provided in **Attachment C**. VOCs and lead concentrations detected were significantly below their respective RDCSRS and IGWSSL values. Therefore, no COPCs were identified for soil.

One groundwater sample (Parcel 28-FGS-A-GW through Parcel 28-FGS-E-GW) was collected from the temporary well installed in each of the five test pits. The groundwater samples were collected with bailers and analyzed for VOC+15 and lead. The groundwater samples results are provided in **Attachment D**. VOCs were not detected in the samples. Lead was detected in each sample at concentrations ranging from 4.6 µg/L to 21.7 µg/L. At locations FGS-A, FGS-D, and FGS-E, lead was detected above the GWQS of 5 µg/L and the CWA background value of 7.3 µg/L; at concentrations of 10.4 µg/L, 13.7 µg/L and 21.7 µg/L respectively. Because these samples were collected with a bailer from the temporary well, the turbidity was likely high, which would cause the lead results to be biased high and, therefore, not representative of actual site conditions. Furthermore, the disturbance of glauconitic sands likely had an impact on the quality of the grab groundwater sample. Additionally lead was not detected above its IGWSSL at this location. For these reasons lead is not considered a COPC.

Remnants of the former gas station were not observed during the excavation of the test pits. The soil and groundwater samples collected during this investigation suggest that the soil and groundwater were not impacted by the former gas station.

Former Septic System East of Heliport Drive and South of Radiac Way

To determine the composition of the waste stream that entered the septic system, one test pit (SSEH-A as shown in **Attachment A**) was advanced in the area of the former distribution box. Test pit SSEH-A was excavated to a depth of approximately 8 feet bgs; soils encountered consisted of brown orange fine sand with no odors or staining observed. A soil sample was collected (since no sludge was observed within the excavation) in the test pit from a depth of approximately 7.5 to 8 feet bgs which at the time of collection was within 6-inches from the observed groundwater table. There was no septic tank or distribution box encountered in the test pit.

The soil sample (Parcel 28-SSEH-A [7.5-8.0]) was analyzed for TCL+TICs/TAL, EPH, and hexavalent chromium. The soil sample results are provided in **Attachment C**. SVOCs, EPH, pesticides, and PCBs were not detected in the soil sample. VOCs and metals were detected in the soil sample but below their respective RDCSRs. Beryllium was detected at a concentration of 0.84 mg/kg, slightly above its IGWSSL of 0.7 mg/kg but below the CWA background value of 1.7 mg/kg (Weston, 1995). No COPCs were identified for soil.

One groundwater sample (Parcel 28-GW-SSEH-A) was collected from a temporary well installed in the test pit. The groundwater sample collected using a bailer was analyzed for TCL+TICs/TAL, EPH, hexavalent chromium and pH. The groundwater sample results are provided in **Attachment D**. VOCs, EPH, pesticides, and PCBs were not detected in the groundwater sample. SVOC TICs were detected in only sample and at a concentration significantly below the GWQS of 500 μ g/L. Aluminum, arsenic, beryllium, chromium, iron, lead, and manganese were detected above their respective GWQS. Arsenic, beryllium, and manganese were detected at concentrations below their respective CWA background values and therefore are not COPCs. Iron is considered an essential nutrient and therefore is not a COPC. Aluminum (16,300 μ g/L), chromium (213 μ g/L) and lead (12.1 μ g/L) were detected above both the NJDEP GWQS and the CWA background values. However, because this sample was collected with a bailer from a temporary well, the turbidity was likely high, which would cause the metal concentrations to be biased high and therefore, not representative of actual site conditions. Additionally, the soil sample collected at this location shows that lead and aluminum were detected below their respective IGWSSL. For these reasons, aluminum, chromium and lead are not considered COPCs.

Evidence of the former distribution box was not observed in the test pit, and the soil and groundwater sample collected during this investigation suggest that the soil and groundwater was not impacted by the former septic system.

Former Septic System At Southeastern Corner Of Parcel 28

To determine the composition of the waste stream that entered the septic system holding tank and associated leach field, five test pits (SSSC-A through SSSC-E as shown in **Attachment A**) were excavated with one test pit located at the former holding tank area and four test pits located

within the former leach field. The test pits were excavated to a depth of approximately 6.5 feet bgs. Soils encountered in the test pits generally consisted of brown medium to fine sands with no odors or staining observed; however, other notable materials observed included abandoned electrical lines in SSSC-A and SSSC-E, concrete chunks in SSSC-B, and pea stone in SSSC-D. A soil sample was collected (since no sludge was observed within the excavation) in each test pit from a depth of approximately 6 to 6.5 feet bgs which at the time of collection was within 6-inches from the observed groundwater table. There was no septic tank encountered in the test pits.

The soil samples (Parcel -28 SSSC-A [6-6.5] through Parcel -28 SSSC-E [6-6.5]) were analyzed for TCL+TICs/TAL, EPH, hexavalent chromium and pH. The soil sample results are provided in **Attachment C**. EPH and PCBs were not detected in the soil samples. VOCs, SVOCs, pesticides, and metals detected in the soil samples are below their respective RDCSRS. Aluminum was detected at concentrations ranging from 7,740 to 11,200 mg/kg in three samples, which exceeds the IGWSSL of 6,000 mg/kg but is below the CWA background value of 15,700 mg/kg. No COPCs were identified for soil.

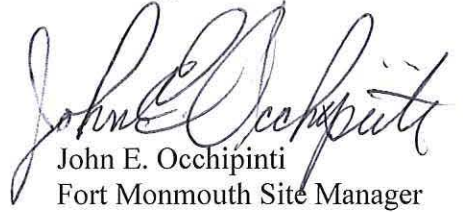
Groundwater samples (Parcel-28 SSSC-A-GW through Parcel-28 SSSC-E-GW) were collected from the temporary well installed in each test pit. The groundwater samples collected with a bailer were analyzed for TCL+TICs/TAL, EPH, hexavalent chromium and pH. PCBs were not detected in the samples. The groundwater sample results are provided in **Attachment D**. Only one VOC, chloroform a common laboratory contaminant, was detected in one sample and at a concentration significantly below its GWQS. Bis (2-ethylhexyl) phthalate a common laboratory contaminant, naphthalene and SVOCs TICs were detected in only two samples and at concentrations significantly below their GWQS. Two pesticides (alpha-chlordane and gamma-chlordane) were detected in only one sample and at concentrations significantly below their GWQS. Although no GWQS is established for EPH, it was detected in two samples, at concentrations less than 0.3 mg/L. Aluminum, arsenic, beryllium, chromium, iron, lead, manganese and sodium were detected above their respective GWQS. Manganese was detected at concentrations below the CWA background values and therefore is not a COPC. Also, iron and sodium are considered an essential nutrients and therefore not COPCs. Aluminum (8,740 µg/L - 35,800 µg/L), arsenic (36.3 µg/L), beryllium (2.9 µg/L), chromium (128 µg/L - 408 µg/L) and lead (7.8 µg/L - 36.9 µg/L) were detected above both NJDEP GWQS and the CWA background values. Because these samples were collected with a bailer from a temporary well, the turbidity was likely high which would cause the metal results to be biased high, and therefore not representative of actually groundwater conditions. Additionally, soil samples collected at this location show that arsenic, beryllium and lead were detected below their respective IGWSSL values. For these reasons and considering the soil sampling results above, aluminum, arsenic, beryllium, chromium, and lead are not considered COPCs.

Evidence of the former septic system was not observed in test pits, and soil and groundwater samples collected indicate that the soil and groundwater was not impacted by the former septic system.

In summary, we request No Further Action for Parcel 28. The technical Point of Contact (POC) for this matter is Cris Grill at (617) 449-1583 or by email at cris.grill@parsons.com. Should you

have any questions or require additional information, please contact me by phone (732- 383- 5104) or by email at john.e.occhipinti.civ@mail.mil.

Sincerely,



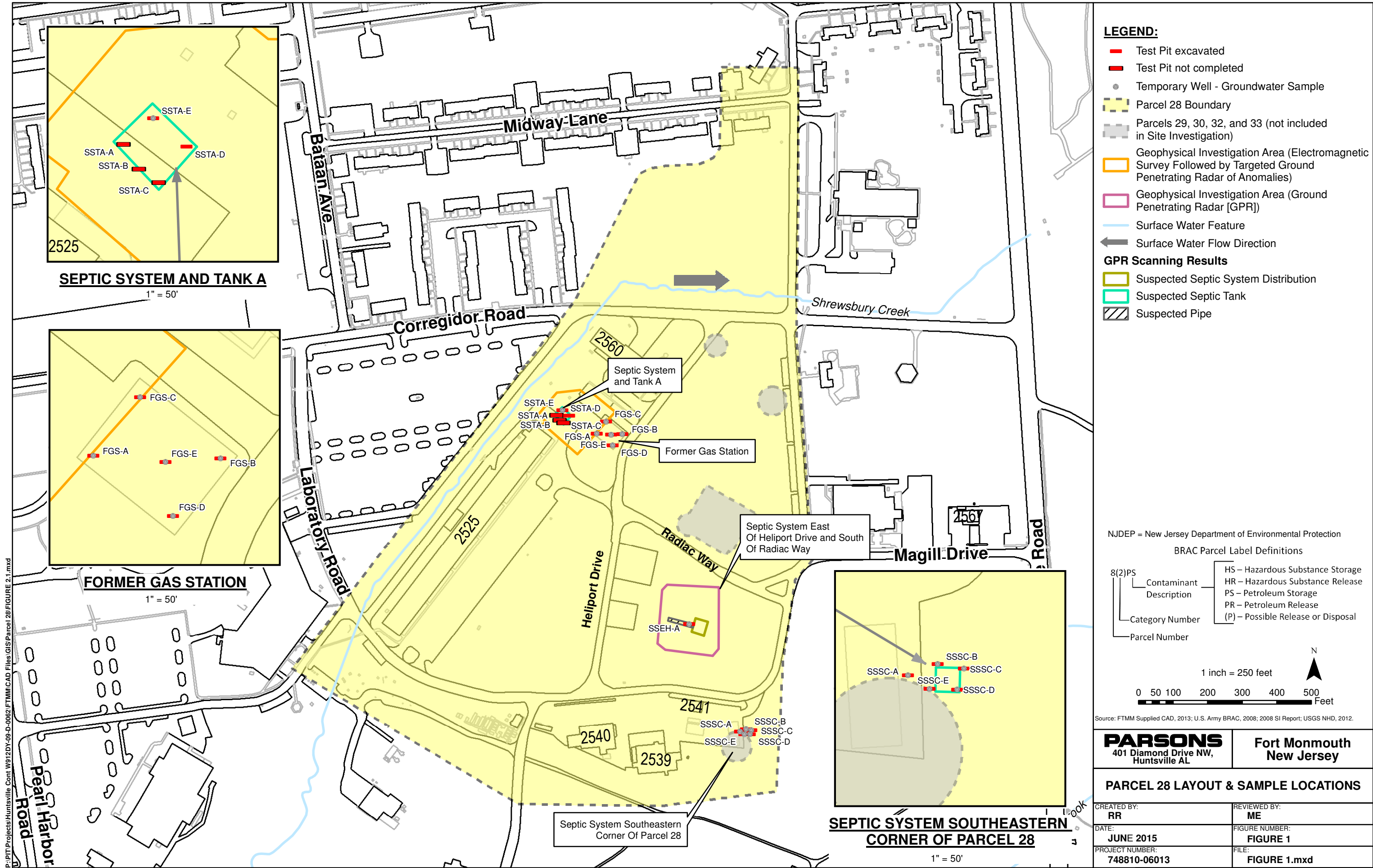
John E. Occhipinti
Fort Monmouth Site Manager

cc: Delight Balducci, HQDA ACSIM
Joseph Pearson, Calibre
James Moore, USACE
Cris Grill, Parsons

References: Weston. 1995. Final Site Investigation - Main Post and Charles Wood Areas, Fort Monmouth, New Jersey, December

Attachment A

Figure 1 Parcel 28 Layout and Sample Locations

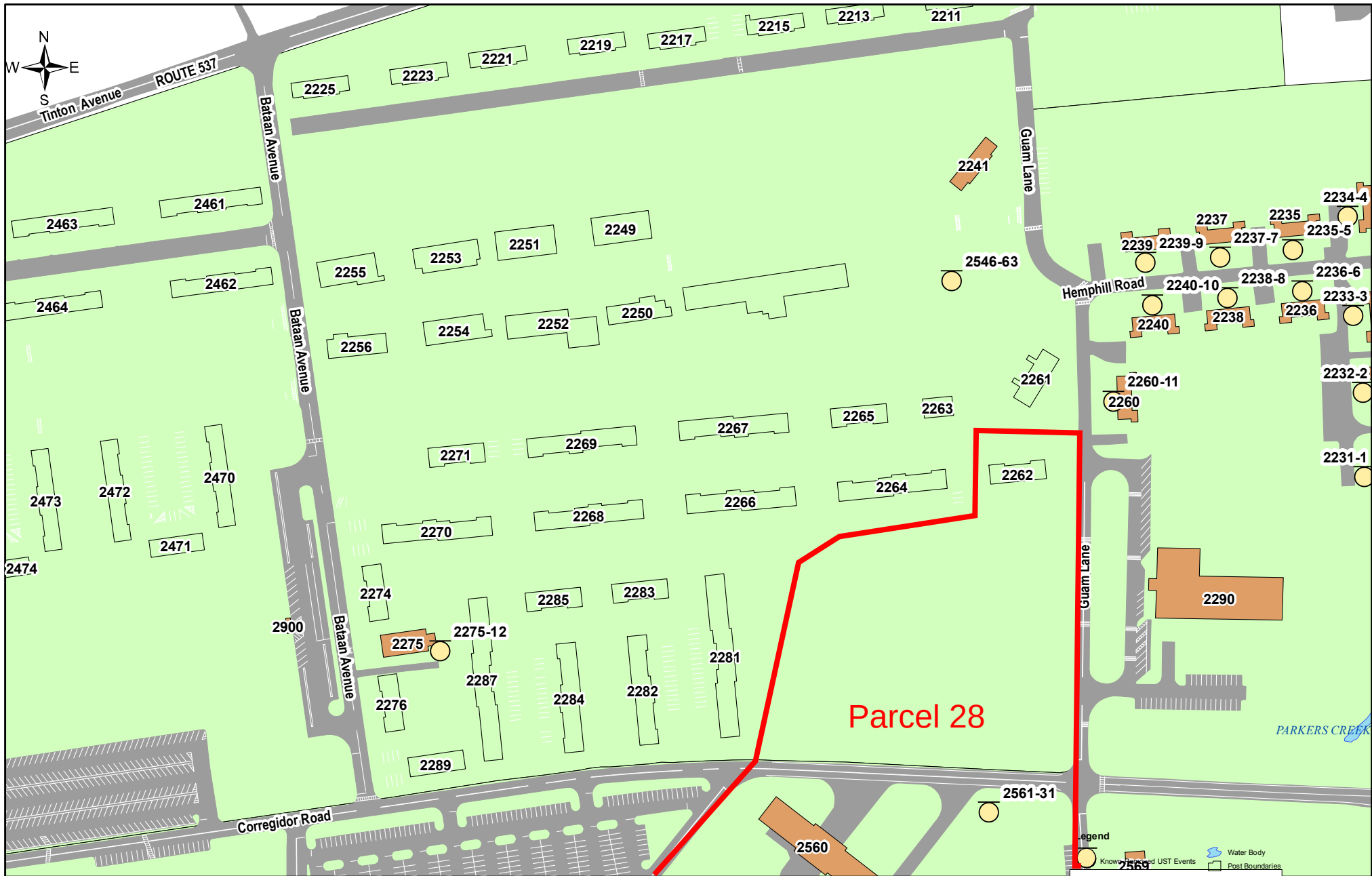


Attachment B

UHOT Closure Documentation

PARCEL 28 UST CLOSURE STATUS

Site Name	Registration ID	DICAR	Tank Size and Type	Product	Army Case Status	File Review Comments
2525A /P28-8 /Bldg. 2545	-		550 gal. steel	#2 FUEL OIL	Case Closed	NFA approved per 7/10/2012 NJDEP letter
2529	81515-20		1000 gal. steel	#2 FUEL OIL	Case Closed	NFA approved per 7/10/1998 NJDEP letter
2531	81515-21		1000 gal. steel	#2 FUEL OIL	Case Closed	NFA approved per 8/29/2000 NJDEP letter
2532	81515-22		550 gal. steel	#2 FUEL OIL	Case Closed	NFA approved per 7/10/1998 NJDEP letter
2533	81515-23		1000 gal. fiberglass	#2 FUEL OIL	Case Closed	NFA approved per 7/10/1998 NJDEP letter
2534	81515-24	94-05-24-0945-01	1000 gal. steel	#2 FUEL OIL	Case Closed	NFA approved per 1/10/2003 NJDEP letter
2535	81515-25		1000 gal. steel	#2 FUEL OIL	Case Closed	NFA approved per 8/29/2000 NJDEP letter
2536	81515-26		1000 gal. steel	#2 FUEL OIL	Case Closed	NFA approved per 7/10/1998 NJDEP letter
2537	81515-27	97-05-27-1421-04	1000 gal. steel	#2 FUEL OIL	Case Closed	NFA approved per 8/29/2000 NJDEP letter
2539	81515-64		1000 gal. steel	#2 FUEL OIL	Case Closed	NFA approved per 5/30/2013 NJDEP letter
2539	81515-28		1000 gal. steel	#2 FUEL OIL	Case Closed	NFA approved per 5/30/2013 NJDEP letter
2542	81515-29		1000 gal. steel	#2 FUEL OIL	Case Closed	See the March 2010 TVS closure report appended to the 8/2013 Phase I FOST
2543	81515-30		15000 gal. fiberglass	#2 FUEL OIL	Case Closed	NFA approved per 2/24/2000 NJDEP letter
2561	81515-31	95-9-26-1557-16	550 gal. steel	#2 FUEL OIL	Case Closed	NFA approved per 7/10/1998 NJDEP letter
2562A	81515-41	93-8-16-1243-26	5000 gal. steel	GASOLINE	Case Closed	NFA approved per 1/10/2003 NJDEP letter
2564	81515-32		1000 gal. steel	#2 FUEL OIL	Case Closed	See the March 2010 TVS closure report appended to the 8/2013 Phase I FOST



UST Removal Reference Map
Grid B2; Charles Wood Area
Fort Monmouth, New Jersey
FOUO

0 125 250 500
 Feet

Legend

- Known, Existing UST Events
- Known, Removed UST Events
- Reference Map Links
- Demolished Building
- Existing Building
- Roadway & Parking
- Water Body
- Post Boundaries

Map Created by:
 Fort Monmouth Installation GIO, Environmental Division
 Fort Monmouth, New Jersey
 Date: August 10, 2011
 All drawings must be field verified.
 New Jersey State Plane Feet, NAD83



State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Mr. James Ott
Director - Public Works
U.S. Army, Fort Monmouth
Fort Monmouth, NJ 07703

JUL 10 1998

Re: UST Closure Reports
Fort Monmouth Army Base
Tinton Falls, Monmouth County

Dear Mr. Ott:

The NJDEP is in receipt of UST closure reports noted below. These documents have been reviewed by the NJDEP throughout the closure process and the documents submitted were discussed throughout their drafting and in great detail upon submittal. Based on these steps and the final review conducted by me, the NJDEP accepts the closure reports and all of the NFA requests commensurate with these submittals.

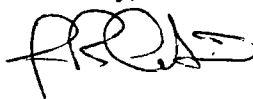
NJDEP REG. NO.	BUILDING	CONTENTS	CAPACITY	PROPOSAL	DEP APPROVAL
90010-10	116C-MP/E	No. 2 Fuel Oil	2000	NFA	YES
81533-134	826-MP/W	No. 2 Fuel Oil	550	NFA	YES
81533-144	902-MP/W	No. 2 Fuel Oil	1000	NFA	YES
81515-20	2529-CW	No. 2 Fuel	1000	NFA	YES
81515-22	2532-CW	No. 2 Fuel Oil	550	NFA	YES
81515-23	2533-CW	No. 2 Fuel Oil	1000	NFA	YES
81515-31	2561-CW	No. 2 Fuel Oil	550	NFA	YES
90010-27	410-MP/E	No. 2 Fuel Oil	1080	NFA	YES
81533-206	1075	NOT SUBMITTED		WITH	PACKAGE
81515-16	2504B-CW	No. 2 Fuel Oil	1000	NFA	YES
81515-18	2507-CW	No. 2 Fuel Oil	1080	NFA	YES
81515-26	2536-CW	No. 2 Fuel Oil	1000	NFA	YES
81515-14	2503-CW	No. 2 Fuel Oil	1000	NFA	YES
90010-12	117B-MP/E	No. 2 Fuel Oil	2000	NFA	YES
90010-34	418-MP/E	No. 2 Fuel Oil	1080	NFA	YES
90010-36	420-MP/E	No. 2 Fuel Oil	1080	NFA	YES
90010-38	422-MP/E	No. 2 Fuel Oil	1080	NFA	YES
90010-41	427-MP/E	No. 2 Fuel Oil	1080	NFA	YES
90010-44	430A-MP/E	No. 2 Fuel Oil	550	NFA	YES
90010-50	453-MP/E	No. 2 Fuel Oil	1080	NFA	YES
90010-51	454-MP/E	No. 2 Fuel Oil	1080	NFA	YES
81533-76	501-MP/W	No. 2 Fuel Oil	1000	NFA	YES
81533-141	900A-MP/W	No. 2 Fuel Oil	1000	NFA	YES
81515-17	2506-CW	No. 2 Fuel Oil	1000	NFA	YES
90010-8	116A-MP/E	No. 2 Fuel Oil	1000	NFA	YES
90010-11	117A-MP/E	No. 2 Fuel Oil	2000	NFA	YES
90010-53	480-MP/E	No. 2 Fuel Oil	1000	NFA	YES

81515-19	2508-CW	No. 2 Fuel Oil	550	NFA	YES
81533-228	804B-MP/W	No. 2 Fuel Oil	1000	NFA	YES
81533-142	900B-MP/W	No. 2 Fuel Oil	1000	NFA	YES

The efforts made to assure protection of human health and the environment as well as the efforts made to make the entire closure process efficient and consistent with the NJDEP's Technical Requirements for Site Remediation (N.J.A.C. 7:9-6 et seq.) has been exceptional.

If I can be of any assistance, please do not hesitate to contact me should you have any questions or comments.

Sincerely,



Ian R. Curtis, Case Manager
Bureau of Federal Case Management
ICURTIS@DEP.STATE.NJ.US

cc. Kevin Kratina, BUST

FTMMTH51.DOC



State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Mr. James Ott
C/O: Dinker Desai
Director - Public Works
U.S. Army, Fort Monmouth
Fort Monmouth, NJ 07703

FEB 24 2000

Re: UST Closure Reports - Closure Approvals
Fort Monmouth Army Base
Fort Monmouth, Monmouth County

Dear Mr. Ott:

The NJDEP has reviewed the UST Closure and Site Investigation Reports for the Fort Monmouth underground storage tank sites noted below. Based on the NJDEP review of these documents, your request that the NJDEP approve the closure reports for those tanks listed below.

The following tanks were removed, sampled and analyzed in accordance with State and Federal requirements. Additionally, the reports consistently state the Fort Monmouth Public Works Department policy of removing all soils which are determined to have total petroleum hydrocarbon contamination (TPHC) greater than 1000 ppm. NJDEP criteria requires similar removal for TPHC contamination greater than 10,000 ppm. These activities are conservative and therefore further assure the NJDEP that no further action is necessary at these sites.

NJDEP Req. #	Bldg. #	NJDEP Req. #	Bldg. #
0090016-16	165	0081533-151	913
0090010-69	170D	0081533-155	917
0090010-20	197	0081533-165	1105
0081533-54	270	0081533-169	1109
0081533-60	286	0081533-173	1213A
0081533-65	291	0081533-208	1221
0090010-70	400	00192486-34	2018
0081533-103	671A	00192486-35	2021A
0081533-138	876A	0081515-30	2543
0081533-149	911	0081515-40	2707
0081533-150	912		

If you should have any questions or comments, please do not hesitate to contact me at (609) 633-7232 or via E-mail.

Sincerely,

Ian R. Curtis, Case Manager
Bureau of Case Management
ICURTIS@DEP.STATE.NJ.US

FTMMTH064IRC.DOC



State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

Mr. Dinkerrai Desai
DEPARTMENT OF THE ARMY
HEADQUARTERS, U.S. ARMY COMMUNICATIONS-ELECTRONIC COMMAND
FORT MONMOUTH, NJ 07703-5000

AUG 29 2000

Re: UST Closure Approval/NFA
Fort Monmouth Main Post
Monmouth County

Dear Mr. Desai:

The NJDEP is in receipt of twenty-five (25) UST closure reports dated August 1, 2000. The Army has requested to receive No Further Action approval letters for each of these reports. This letter approves the NFA requests for the following 25 UST located on the Main Post of the Fort Monmouth site:

NJDEP Req. #	Bldg. #	NJDEP Req. #	Bldg. #
0090010-03	64	0081533-80	551
0090010-05	65	0081533-81	552
0090010-05	74	0081533-120	746
0081533-03	205	0081533-122	748
0090010-29	412	0081533-123	749
0090010-30	413	0081533-131	810
0090010-31	414	0081533-132	811
0090010-33	417	0081533-232	906B
0090010-42	428	0081533-159	1006
0090010-47	434	0081533-206	1075
0090010-47	447	0081515-21	2531
0090010-57	485	00192486-02	2018
0090010-59	492		

The NJDEP has determined that the Army has performed the remedial actions in a manner consistent or in excess of the regulatory requirements, specifically the Technical Requirements For Site Remediation (N.J.A.C. 7:26E et seq.). Soils with contamination in excess of the NJDEP residential cleanup criteria have been excavated and the Army has taken great care to provide documentation which assures us that all sources of contamination have been remediated.

The NJDEP has one comment in that we request that future reports provide ground water flow direction indications on the well location maps.

If you should have any questions or comments, please do not hesitate to contact me at (609) 633-7232 or via E-mail.

Sincerely,

Ian R. Curtis, Case Manager
Bureau of Case Management
ICURTIS@DEP.STATE.NJ.US



State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

AUG 29 2000

Mr. Dinkerrai Desai
DEPARTMENT OF THE ARMY
HEADQUARTERS, U.S. ARMY COMMUNICATIONS-ELECTRONIC COMMAND
FORT MONMOUTH, NJ 07703-5000

Re: UST Closure Approval/NFA
Fort Monmouth Main Post
Monmouth County

Dear Mr. Desai:

The NJDEP is in receipt of nine (9) UST closure reports dated July 27, 1998. The Army has requested to receive No Further Action approval letters for each of these reports. This letter approves the NFA requests for the following 9 UST located on the Main Post of the Fort Monmouth site:

NJDEP Req. #	Bldg. #
0090010-35	419
0090010-48	439
0090010-56	484
0081533-77	502
0081533-143	901
0081515-12	2275
0081515-13	2502
0081515-25	2535
0081515-27	2537

The NJDEP has determined that the Army has performed the remedial actions in a manner consistent or in excess of the regulatory requirements, specifically the Technical Requirements For Site Remediation (N.J.A.C. 7:26E et seq.). Soils with contamination in excess of the NJDEP residential cleanup criteria have been excavated and the Army has taken great care to provide documentation which assures us that all sources of contamination have been remediated.

If you should have any questions or comments, please do not hesitate to contact me at (609) 633-7232 or via E-mail.

Sincerely,


Ian R. Curtis, Case Manager
Bureau of Case Management
ICURTIS@DEP.STATE.NJ.US

FTMMTH069IRC.DOC



State of New Jersey

James E. McGreevey
Governor

Department of Environmental Protection

Bradley M. Campbell
Commissioner

Mr. Dinkerrai Desai
DEPARTMENT OF THE ARMY
HEADQUARTERS, U.S. ARMY COMMUNICATIONS-ELECTRONIC COMMAND
FORT MONMOUTH, NJ 07703-5000

Re: UST Closure Approval/NFA
Fort Monmouth Main Post
Monmouth County

JAN 10 2003

Dear Mr. Desai:

The NJDEP is in receipt of sixty-eight (68) underground storage tank (UST) closure reports dated between July 17, 2001 and May 15, 2002. The Army has requested to receive No Further Action (NFA) approval letters for each of these reports. This letter approves the NFA requests for the following 68 UST that are located on the Main Post of the Fort Monmouth site:

Submittal Date	Building No.	NJDEP Reg. #	Residential
07/17/2001	104	90010-75	NO
07/17/2001	699A	81533-112	NO
07/17/2001	800A	81533-127	NO
07/17/2001	875	81533-234	NO
07/17/2001	949	81533-203	NO
07/17/2001	1220A	81533-184	NO
07/17/2001	2000B	192486-38	NO
01/02/2002	257	81533-200	NO
01/02/2002	283C	81533-229	NO
01/02/2002	290B	81533-224	NO
01/02/2002	290B	81533-225	NO
01/02/2002	491	90010-71	NO
01/02/2002	605	81533-85	NO
01/02/2002	678	81533-105	NO
01/02/2002	699	81533-236	NO
01/02/2002	699	81533-238	NO
01/02/2002	699	81533-237	NO
01/02/2002	699	81533-235	NO
01/02/2002	801B	81533-129	NO
01/02/2002	804A	81533-130	NO
01/02/2002	2337	81515-65	NO
01/02/2002	2562A	81515-41	NO
01/02/2002	2707	81515-50	NO
01/02/2002	2707	81515-49	NO
01/02/2002	2707	81515-51	NO
01/02/2002	2707	81515-47	NO
01/02/2002	2707	81515-48	NO

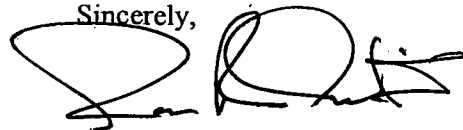
Submittal Date	Building No.	NJDEP Reg. #	Residential
02/13/2002	2044	192486-24	NO
02/13/2002	2044	192486-32	NO
02/13/2002	2044	192486-33	NO
02/26/2002	208B	81533-210	YES
03/05/2002	246	N/A	YES
03/05/2002	261B	N/A	YES
05/15/2002	106	90010-74	NO
05/15/2002	164	90010-15	NO
05/15/2002	173	90010-19	NO
05/15/2002	200	81533-2	NO
05/15/2002	208A	81533-6	YES
05/15/2002	233	81533-21	YES
05/15/2002	237	81533-25	YES
05/15/2002	271	81533-55	YES
05/15/2002	277	90010-24	NO
05/15/2002	296B	81533-217	NO
05/15/2002	296B	81533-223	NO
05/15/2002	296B	81533-221	NO
05/15/2002	296B	81533-220	NO
05/15/2002	296B	81533-222	NO
05/15/2002	296B	81533-218	NO
05/15/2002	296B	81533-216	NO
05/15/2002	296B	81533-215	NO
05/15/2002	296B	81533-214	NO
05/15/2002	296B	81533-213	NO
05/15/2002	296B	81533-219	NO
05/15/2002	426	90010-40	NO
05/15/2002	482	90010-54	NO
05/15/2002	600 A	81533-83	NO
05/15/2002	600 B	81533-212	NO
05/15/2002	611	81533-87	NO
05/15/2002	615	81533-89	NO
05/15/2002	618	81533-91	NO
05/15/2002	619	81533-92	NO
05/15/2002	621	81533-94	NO
05/15/2002	634	N/A	NO
05/15/2002	638	N/A	NO
05/15/2002	639-2	N/A	NO
05/15/2002	640	N/A	NO
05/15/2002	641	N/A	NO
05/15/2002	644	N/A	NO
05/15/2002	664	N/A	NO
05/15/2002	666	N/A	NO
05/15/2002	686	81533-107	NO
05/15/2002	697	81533-194	NO
05/15/2002	697	81533-195	NO

Submittal Date	Building No.	NJDEP Reg. #	Residential
05/15/2002	697	81533-196	NO
05/15/2002	876B	81533-139	NO
05/15/2002	886	81533-140	NO
05/15/2002	905	81533-145	NO
05/15/2002	1102	81533-162	NO
05/15/2002	1104	81533-164	NO
05/15/2002	2067	192486-37	NO
05/15/2002	2534	81515-24	NO
05/15/2002	2603	81515-60	NO
05/15/2002	2700 2,6	81515-61	NO

The NJDEP has determined that the Army has performed the remedial actions in a manner consistent with the regulatory requirements, specifically the Technical Requirements For Site Remediation (N.J.A.C. 7:26E et seq.). Soils with contamination in excess of the NJDEP residential cleanup criteria have been excavated and the Army has taken great care to provide documentation that assures us that all sources of contamination have been remediated.

If you should have any questions or comments, please do not hesitate to contact me at (609) 633-7232 or via E-mail.

Sincerely,



Ian R. Curtis, Case Manager
Bureau of Case Management
ICURTIS@DEP.STATE.NJ.US



State of New Jersey

CHRIS CHRISTIE
Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Case Management
401 East State Street
P.O. Box 420/Mail Code 401-05F
Trenton, NJ 08625-0028
Phone #: 609-633-1455
Fax #: 609-633-1439

BOB MARTIN
Commissioner

KIM GUADAGNO
Lt. Governor

July 10, 2012

Wanda Green
BRAC Environmental Coordinator
OACSIM – U.S. Army Fort Monmouth
PO Box 148
Oceanport, NJ 07757

Re: March 2012 Army Response to NJDEP Correspondence Letter Dated October 28, 2008
Fort Monmouth, NJ
PI G000000032

Dear Ms. Green:

A review of the above referenced report, received March 27, 2012 and submitted in response to the Department's comments regarding the Draft Site investigation Report of July 21, 2008 by Shaw Environmental, Inc., has been completed by this office. Many of the parcel comments involved suspected USTs; in addition to that information provided in this submittal and the July 2008 SI, a review and comparison of Appendix G, Appendix O, and Figures 15 and 16 of the January 2007 ECP Report was conducted by this office in an attempt to ascertain the location and status of all tanks located within the parcels. Unless otherwise noted, comments and questions are provided only for each parcel referenced in the submittal and are generally presented by parcel.

Parcel 13 – Former Barracks (Buildings 2004-2016)

Geophysical surveys were performed, and sampling was conducted throughout that area at which USTs were known to or may have been present. No USTs were found; all soils analytical results were below cleanup criteria applicable to the site; no additional action for the parcel is necessary.

Parcel 14 – Former Buildings and Housing Area Northwest Portion of CWA

As indicated in the Department's correspondence of May 30, 2012, the geophysical surveys performed and sampling conducted throughout that area at which USTs were or may have been present were sufficient to adequately characterize the area. No USTs were found; all soils analytical results collected were below cleanup criteria applicable to the site. The parcel was re-categorized from Category 2 to Category 1.

Parcel 15 – Building 2700

Parcel 15 was issued a designation of No Further Action for soils and ground water, *exclusive of CW-1*, on May 9, 2012. Remediation efforts involving CW-1 continue.

Parcel 27 – Southwestern Corner CWA

The single outstanding issue at Parcel 27 was the USTs. As previously indicated, numerous USTs were removed from the parcel, however, additional documentation for same was required.

It is agreed fourteen (14) USTs have been removed and given NJDEP Closure Approval Letters/NFAs. Although it is understood Departmental approval may have been granted for an additional five USTs, as indicated on Page 6 of the referenced submittal and in Appendix G, please be advised this office does not have documentation confirming Closure Approval/NFA for the following USTs.

UST 2506-17	Reported NJDEP UST Closure Approval Date 7/10/98
UST 2624-34	Reported NJDEP UST Closure Approval Date 7/23/93
UST 2624-57	Reported NJDEP UST Closure Approval Date 9/21/95
UST 2624-58	Reported NJDEP UST Closure Approval Date 9/21/95
UST 2624-59	Reported NJDEP UST Closure Approval Date 9/21/95

Additionally, please provide information as to the status of the USTs noted in Appendix O at what appear to be Buildings 2566 and 2505, located just north of Building 2503?

Any sediment issues which may have resulted from parcel operations are to be addressed as part of the ongoing facility wide ecological assessment.

Parcel 28 – Former Eatontown Laboratory**Underground Storage Tanks**

Although this office is in agreement with the information submitted in regard to the majority of the USTs as noted on Parcel 28, questions remain on several, which are not considered as given a designation of NFA at this time.

As above, documentation for closure approval or NFA is not available for confirmation on the following USTs.

UST 2539-28	Reported NJDEP UST Closure Approval Date 3/31/93
UST 2539-64	Reported NJDEP UST Closure Approval Date 3/31/93
UST-2531-21	Reported NJDEP UST Closure Approval Date 8/29/00

UST 2542-29 and UST 2564-32 are reported as no release observed. A Standard Reporting Form and/or Site Assessment Compliance Statement were reported sent to us 11/22/91, however, no designation of NFA was granted, nor comments apparently generated.

Appendix O indicates three USTs within that area which underwent a geophysical survey between Building 2525 & Heliport Drive. The center UST appears to correlate to UST P28-8, which, based upon the investigation performed, warrants no further action. Although it is agreed no tanks remain in that area, please provide any record of their removal or indication as to evidence of a discharge upon removal. As previously discussed, a designation of NFA for USTs cannot be granted without sampling.

Septic Tanks & Leachfields

Leachfield East of Heliport Drive, South of Radiac Way – It is agreed the four test pits were adequate for characterization of the leachfield; no additional action is necessary for the leachfield. It does not appear, however, the suspected D-box/entirety of the septic system was investigated. Although they are not designed to hold liquids/sludges (but rather to distribute the liquids after the solids fall out into the holding tank), particularly as the structure apparently remains in place, additional information is required as to whether the structure could have been/functioned as a holding tank (field notes do reference it as a septic tank) which did contain solids or liquids which should have been sampled.

Septic System & Septic Tank A – Located off the northeast corner of Building 2525, a suspected septic tank was located via GPR scanning, as denoted as “A” on Figure 3.5-2 of the ECP Site Investigation. Sampling efforts, however, were performed only at the associated leachfield. What efforts were made to adequately characterize any holding tank contents of the actual septic tank, as required by the Tech Regulations in effect at the time of investigation (NJAC 7:26E-3.9(e)3)? As regarding the associated leachfield, a minimum of 4 samples is required. A single soil and single ground water sample is inadequate.

Septic System at Southeastern Corner of Parcel - For that septic system located in the southeastern corner of the parcel as sampled by P28-SB1, the findings/requirements noted in the above paragraph also apply.

Former Storage Areas/Possible Former Tank Pads – This area received a designation of NFA on March 29, 2012.

Parcel 34 – Building 2567/FTMM 58

Elevated levels of ground water contamination underwent treatment via a Permit-by-Rule approved in October of 2010. The Department most recently responded on March 7, 2012 approving monitoring via two rounds of seasonal high ground water analytical sampling.

As recently discussed, although piping was cleaned at the time of tank removal, it necessary to remove the piping and dispensing equipment/island.

Remaining pages have been omitted for brevity



State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Case Management
401 East State Street
P.O. Box 420/Mail Code 401-05F
Trenton, NJ 08625-0028
Phone #: 609-633-1455
Fax #: 609-633-1439

BOB MARTIN
Commissioner

May 30, 2013

Wanda Green
BRAC Environmental Coordinator
OACSIM – U.S. Army Fort Monmouth
PO Box 148
Oceanport, NJ 07757

Re: Army's January 31, 2013 Correspondence – Miscellaneous USTs
Main Post & Charles Wood Area
Fort Monmouth, New Jersey
PI G000000032

Dear Ms. Green:

The New Jersey Department of Environmental Protection (Department) has completed review of the referenced correspondence (and associated Attachments A through T), submitted to address several of the unresolved underground storage tank (UST) issues noted in this office's letter of July 10, 2012. As indicated in the referenced submittal, additional information regarding the various USTs will be forthcoming. The following comments are offered.

Parcel 28 – Former Eatontown Laboratory

As has been discussed, it is agreed no additional action is necessary for UST 2539-28, UST 2539-64, UST 2531-21, and two of the three USTs previously located between Building 2525 and Heliport Drive. Documentation as to the adequate evaluation of tanks UST 2542-29, UST 2564-32 and the UST at Building 2544 (T-7) has not yet been submitted.

Parcel 49 – Former Squier Laboratory Complex

Upon review of the documentation included in the submittal, it is agreed no further action is necessary for the UST at Building 293-67, or UST 283B-59.

Parcel 51 – 750 Area, 500 Area, 600 Area, 1100 Area – Former Buildings

Upon review of the documentation included in the submittal, it is agreed no further action is necessary for UST 695-111, UST 635, UST 642, UST 643 and 501-76.

As no sampling was apparently performed at UST 637, this office cannot concur there has been no discharge associated with the UST. As regarding Appendix K, and USTs at Buildings 644 through 654, evidently no sampling was performed; again, without same, this office cannot concur there has been no discharge.

Parcel 76 – 200 Area, 300 Area – Former Barracks

Review of the documentation included in the submittal indicates no additional action is necessary for UST 261 and UST 261B.

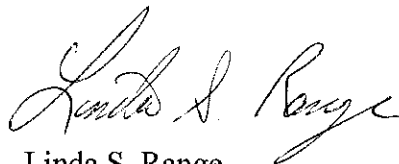
Parcel 79 – 400 Area Former Barracks

Review of the documentation included in the submittal, as well as that included in the files, indicates no further action is necessary for UST 411-28, UST 421-37, UST 423-39

As no sampling was evidently performed at UST 401-26 or UST 416-32, this office cannot concur there has been no discharge associated with the USTs.

If you have any questions regarding this matter, please contact this office at (609) 984-6606.

Sincerely,

A handwritten signature in cursive script, appearing to read "Linda S. Range".

Linda S. Range
Bureau of Case Management

C: Joe Pearson, Calibre Systems
Rich Harrison, FMERA
Julie Carver, Matrix

Attachment C

Table 1 Soil Sampling Results

Attachment C
Table 1 Soil Sampling Results
Site Parcel 28
Fort Monmouth, New Jersey

Loc ID	NJ Residential Direct Contact SRs	NJ Non-Residential Direct Contact SRs	NJ Impact to GW Soil Screening Level	West 1995 Background (Charles Wood)	PARCEL 28-SSTA-E (7/5-8.0) 7/16/2013	PARCEL 28-FGS-A (6.0-6.5) 8/2/2013	PARCEL 28-FGS-B (6-6.5) 7/12/2013	PARCEL 28-FGS-C (6-6.5) 7/12/2013	PARCEL 28-FGS-D (6-6.5) 7/12/2013	PARCEL 28-FGS-E (6-6.5) 7/12/2013	PARCEL 28-SSEH-A (7/5-8.0) 7/8/2013	PARCEL 28-SSSC-A (6-6.5) 7/8/2013
Sample ID					Parcel28-SSTA-E (7/5-8.0) 7/16/2013	Parcel28-FGS-A (6.0-6.5) 8/2/2013	Parcel28-FGS-B (6-6.5) 7/12/2013	Parcel28-FGS-C (6-6.5) 7/12/2013	Parcel28-FGS-D (6-6.5) 7/12/2013	Parcel28-FGS-E (6-6.5) 7/12/2013	Parcel28-SSEH-A(7/5-8.0) 7/8/2013	Parcel28-SSSC-A(6-6.5) 7/8/2013
Sample Date												
Volatile Organic Compounds (µg/kg)												
1,1,1-Trichloroethane	290,000	4,200,000	300	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
1,1,2,2-Tetrachloroethane	1,000	3,000	7	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
1,1,2-Trichloro-1,2,2-Trifluoroethane	NLE	NLE	NLE	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	0.57 J	1.3 J
1,1,2-Trichloroethane	2,000	6,000	20	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
1,1-Dichloroethane	8,000	24,000	200	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
1,1-Dichlorobenzene	11,000	150,000	8	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
1,2,3-Trichlorobenzene	NLE	NLE	NLE	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
1,2,4-Trichlorobenzene	73,000	820,000	700	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
1,2-Dibromo-3-chloropropane	80	200	5	-	< 8.9	< 12	< 11	< 10	< 11	< 11	< 11	< 10
1,2-Dichloroethane	8	5	5	-	< 0.89	< 1.2	< 1.1	< 1	< 1.1	< 1.1	< 1.1	< 1
1,2-Dichlorobenzene	5,300,000	59,000,000	17,000	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
1,2-Dichloroethane	900	3,000	5	-	< 0.89	< 1.2	< 1.1	< 1	< 1.1	< 1.1	< 1.1	< 1
1,2-Dichloropropane	2,000	5,000	5	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
1,3-Dichlorobenzene	5,300,000	59,000,000	19,000	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
1,4-Dichlorobenzene	5,000	13,000	2,000	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
1,4-Dioxane	NLE	NLE	NLE	-	< 110	< 160	< 140	< 120	< 130	< 130	< 140	< 130
Acetone	70,000	NLE	19	-	< 0.0089	< 0.012	0.0519	< 0.01	NA	< 0.011	< 0.011	< 0.01
Benzene	2,000	5,000	5	-	< 0.89	< 1.2	< 1.1	< 1	< 1.1	< 1.1	< 1.1	< 1
Bromochloromethane	NLE	NLE	NLE	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Bromodichloromethane	1,000	3,000	5	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Bromofluoromethane	81,000	280,000	30	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Carbon disulfide	7,800,000	110,000,000	6,000	-	< 4.5	< 6.2	< 5.5	< 5	0.72 J	< 5.4	< 5.4	< 5.2
Carbon tetrachloride	600	2,000	5	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Chlorobenzene	510,000	7,400,000	600	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Chlorodibromomethane	3,000	8,000	5	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Chloroethane	220,000	1,100,000	NLE	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Chloroform	600	2,000	400	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Cis-1,2-Dichloroethene	230,000	560,000	300	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Cis-1,3-Dichloropropene	NLE	7,000	NLE	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Cyclohexane	NLE	NLE	NLE	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Dichlorodifluoromethane	490,000	230,000,000	39,000	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 0.89	< 1.2	< 1.1	< 1	< 1.1	< 1.1	< 1.1	< 1
Isopropylbenzene	NLE	NLE	NLE	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Meta/Para Xylene	NLE	170,000,000	NLE	-	< 0.89	< 1.2	< 1.1	< 1	< 1.1	< 1.1	< 1.1	< 1
Methyl Acetate	78,000,000	NLE	22,000	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Methyl bromide	25,000	59,000	40	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Methyl butyl ketone	NLE	NLE	NLE	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Methyl chloride	4,000	12,000	NLE	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Methyl cyclohexane	NLE	NLE	NLE	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Methyl ethyl ketone	3,100,000	44,000,000	900	-	< 8.9	< 12	12.2	< 10	21.9	< 11	< 11	< 10
Methyl isobutyl ketone	NLE	NLE	NLE	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Methyl Tertbutyl Ether	110,000	320,000	200	-	< 0.89	< 1.2	< 1.1	< 1	< 1.1	< 1.1	< 1.1	< 1
Methylene chloride	34,000	97,000	10	-	3.3 J	2.5 J	3.8 J	< 5	3.8 J	3.2 J	7.1 B	4.1 JB
Ortho Xylene	NLE	170,000,000	NLE	-	< 0.89	< 1.2	< 1.1	< 1	< 1.1	< 1.1	< 1.1	< 1
Styrene	90,000	260,000	3,000	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Tetrachloroethene	2,000	5,000	5	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Toluene	6,300,000	91,000,000	7,000	-	0.42 J	< 1.2	0.81 J	< 1	0.27 J	0.24 J	0.41 J	< 1
Total Xylenes	12,000,000	170,000,000	19,000	-	< 0.89	< 1.2	< 1.1	< 1	< 1.1	< 1.1	< 1.1	< 1
Trans-1,2-Dichloroethene	300,000	720,000	600	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Trans-1,3-Dichloropropene	NLE	7,000	NLE	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Trichloroethene	7,000	20,000	10	-	< 4.5	< 6.2	< 5.5	< 5	< 5.4	< 5.4	< 5.4	< 5.2
Trichlorofluoromethane	23,000,000,											

Attachment C
Table 1 Soil Sampling Results
Site Parcel 28
Fort Monmouth, New Jersey

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Charles Wood)	PARCEL 28-SSSC-B	PARCEL 28-SSSC-C	PARCEL 28-SSSC-D	PARCEL 28-SSSC-E
Sample ID					Parcel28-SSSC-B(6-6.5)	Parcel28-SSSC-C(6-6.5)	Parcel28-SSSC-D(6-6.5)	Parcel28-SSSC-E(6-6.5)
Sample Date					7/8/2013	7/8/2013	7/8/2013	7/8/2013
Volatile Organic Compounds (µg/kg)								
1,1,1-Trichloroethane	290,000	4,200,000	300	-	< 4.8	< 5.3	< 5.9	< 5.1
1,1,2,2-Tetrachloroethane	1,000	3,000	7	-	< 4.8	< 5.3	< 5.9	< 5.1
1,1,2-Trichloro-1,2,2-Trifluoroethane	NLE	NLE	NLE	-	< 4.8	0.76 J	< 5.9	< 5.1
1,1,2-Trichloroethane	2,000	6,000	20	-	< 4.8	< 5.3	< 5.9	< 5.1
1,1-Dichloroethane	8,000	24,000	200	-	< 4.8	< 5.3	< 5.9	< 5.1
1,1-Dichlorobenzene	11,000	150,000	8	-	< 4.8	< 5.3	< 5.9	< 5.1
1,2,3-Trichlorobenzene	NLE	NLE	NLE	-	< 4.8	< 5.3	< 5.9	< 5.1
1,2,4-Trichlorobenzene	73,000	820,000	700	-	< 4.8	< 5.3	< 5.9	< 5.1
1,2-Dibromo-3-chloropropane	80	200	5	-	< 9.6	< 11	< 12	< 10
1,2-Dichloroethane	8	40	5	-	< 0.96	< 1.1	< 1.2	< 1
1,2-Dichlorobenzene	5,300,000	59,000,000	17,000	-	< 4.8	< 5.3	< 5.9	< 5.1
1,2-Dichloroethane	900	3,000	5	-	< 0.96	< 1.1	< 1.2	< 1
1,2-Dichloropropane	2,000	5,000	5	-	< 4.8	< 5.3	< 5.9	< 5.1
1,3-Dichlorobenzene	5,300,000	59,000,000	19,000	-	< 4.8	< 5.3	< 5.9	< 5.1
1,4-Dichlorobenzene	5,000	13,000	2,000	-	< 4.8	< 5.3	< 5.9	< 5.1
1,4-Dioxane	NLE	NLE	NLE	-	< 120	< 130	< 150	< 130
Acetone	70,000	NLE	19	-	< 0.0096	< 0.011	< 0.012	< 0.01
Benzene	2,000	5,000	5	-	< 0.96	< 1.1	< 1.2	< 1
Bromochloromethane	NLE	NLE	NLE	-	< 4.8	< 5.3	< 5.9	< 5.1
Bromodichloromethane	1,000	3,000	5	-	< 4.8	< 5.3	< 5.9	< 5.1
Bromoforn	81,000	280,000	30	-	< 4.8	< 5.3	< 5.9	< 5.1
Carbon disulfide	7,800,000	110,000,000	6,000	-	< 4.8	< 5.3	< 5.9	< 5.1
Carbon tetrachloride	600	2,000	5	-	< 4.8	< 5.3	< 5.9	< 5.1
Chlorobenzene	510,000	7,400,000	600	-	< 4.8	< 5.3	< 5.9	< 5.1
Chlorodibromomethane	3,000	8,000	5	-	< 4.8	< 5.3	< 5.9	< 5.1
Chloroethane	220,000	1,100,000	NLE	-	< 4.8	< 5.3	< 5.9	< 5.1
Chloroform	600	2,000	400	-	< 4.8	< 5.3	< 5.9	< 5.1
Cis-1,2-Dichloroethene	230,000	560,000	300	-	< 4.8	< 5.3	< 5.9	< 5.1
Cis-1,3-Dichloropropene	NLE	7,000	NLE	-	< 4.8	< 5.3	< 5.9	< 5.1
Cyclohexane	NLE	NLE	NLE	-	< 4.8	< 5.3	< 5.9	< 5.1
Dichlorodifluoromethane	490,000	230,000,000	39,000	-	< 4.8	< 5.3	< 5.9	< 5.1
Ethyl benzene	7,800,000	110,000,000	13,000	-	< 0.96	< 1.1	< 1.2	< 1
Isopropylbenzene	NLE	NLE	NLE	-	< 4.8	< 5.3	< 5.9	< 5.1
Mesa/Para Xylene	NLE	170,000,000	NLE	-	< 0.96	< 1.1	< 1.2	< 1
Methyl Acetate	78,000,000	NLE	22,000	-	< 4.8	< 5.3	< 5.9	< 5.1
Methyl bromide	25,000	59,000	40	-	< 4.8	< 5.3	< 5.9	< 5.1
Methyl butyl ketone	NLE	NLE	NLE	-	< 4.8	< 5.3	< 5.9	< 5.1
Methyl chloride	4,000	12,000	NLE	-	< 4.8	< 5.3	< 5.9	< 5.1
Methyl cyclohexane	NLE	NLE	NLE	-	< 4.8	< 5.3	< 5.9	< 5.1
Methyl ethyl ketone	3,100,000	44,000,000	900	-	< 9.6	< 11	< 12	< 10
Methyl isobutyl ketone	NLE	NLE	NLE	-	< 4.8	< 5.3	< 5.9	< 5.1
Methyl Tertbutyl Ether	110,000	320,000	200	-	< 0.96	< 1.1	< 1.2	< 1
Methylene chloride	34,000	87,000	10	-	2.6 J	5 JB	3.9 J	4.7 JB
Ortho Xylene	NLE	170,000,000	NLE	-	< 0.96	< 1.1	< 1.2	< 1
Styrene	90,000	260,000	3,000	-	< 4.8	< 5.3	< 5.9	< 5.1
Tetrachloroethene	2,000	5,000	5	-	< 4.8	< 5.3	< 5.9	< 5.1
Toluene	6,300,000	91,000,000	7,000	-	0.3 J	< 1.1	0.31 J	< 1
Total Xylenes	12,000,000	170,000,000	19,000	-	< 0.96	< 1.1	< 1.2	< 1
Trans-1,2-Dichloroethene	300,000	720,000	600	-	< 4.8	< 5.3	< 5.9	< 5.1
Trans-1,3-Dichloropropene	NLE	NLE	NLE	-	< 4.8	< 5.3	< 5.9	< 5.1
Trichloroethene	7,000	20,000	10	-	< 4.8	< 5.3	< 5.9	< 5.1
Trichlorofluoromethane	23,000,000	340,000,000	34,000	-	< 4.8	< 5.3	< 5.9	< 5.1
Vinyl chloride	700	2,000	5	-	< 4.8	< 5.3	< 5.9	< 5.1
TIC VOCs (µg/kg)					0 U	NA	NA	NA
Total Alkanes, VOC	NLE	NLE	NLE	-				
Total TIC, Volatile	NLE	NLE	NLE	-	7.3 J	6.2 J	25.4 J	NA
Semivolatile Organic Compounds (µg/kg)								
1,1-Biphenyl	3,100,000	34,000,000	140,000	-	< 75	< 76	< 78	< 76
1,2,4,5-Tetrachlorobenzene	NLE	NLE	NLE	-	< 190	< 190	< 190	< 190
1,3,4,6-Tetrachlorophenol	NLE	NLE	NLE	-	< 190	< 190	< 190	< 190
2,4,5-Trichlorophenol	6,100,000	68,000,000	68,000	-	< 190	< 190	< 190	< 190
2,4,6-Trichlorophenol	19,000	74,000	200	-	< 190	< 190	< 190	< 190
2,4-Dichlorophenol	180,000	2,100,000	200	-	< 190	< 190	< 190	< 190
2,4-Dimethylphenol	1,200,000	14,000,000	1,000	-	< 190	< 190	< 190	< 190
2,4-Dinitrophenol	120,000	1,400,000	300	-	< 750	< 760	< 780	< 760
2,4-Dinitrotoluene	700	3,000	NLE	-	< 75	< 76	< 78	< 76
2,6-Dinitrotoluene	700	3,000	NLE	-	< 75	< 76	< 78	< 76
2-Chloronaphthalene	NLE	NLE	NLE	-	< 75	< 76	< 78	< 76
2-Chlorophenol	310,000	2,200,000	800	-	< 190	< 190	< 190	< 190
2-Methylnaphthalene	230,000	2,400,000	8,000	-	< 75	< 76	< 78	< 76
2-Methylphenol	310,000	3,400,000	NLE	-	< 75	< 76	< 78	< 76
2-Nitroaniline	39,000	23,000,000	NLE	-	< 190	< 190	< 190	< 190
2-Nitrophenol	NLE	NLE	NLE	-	< 190	< 190	< 190	< 190
3&4-Methylphenol	NLE	NLE	NLE	-	< 75	< 76	< 78	< 76
3,3'-Dichlorobenzidine	1,000	4,000	200	-	< 190	< 190	< 190	< 190
3-Nitroaniline	NLE	NLE	NLE	-	< 190	< 190	< 190	< 190
4,6-Dinitro-2-methylphenol	6,000	68,000	300	-	< 750	< 760	< 780	< 760
4-Bromophenyl phenyl ether	NLE	NLE	NLE	-	< 75	< 76	< 78	< 76
4-Chloro-3-methylphenol	NLE	NLE	NLE	-	< 190	< 190	< 190	< 190
4-Chloroaniline	NLE	NLE	NLE	-	< 190	< 190	< 190	< 190
4-Chlorophenyl phenyl ether	NLE	NLE	NLE	-	< 75	< 76	< 78	< 76
4-Nitroaniline	NLE	NLE	NLE	-	< 190	< 190	< 190	< 190
4-Nitrophenol	NLE	NLE	NLE	-	< 370	< 380	< 390	< 380
Acenaphthene	3,400,000	37,000,000	110,000	-	< 37	< 38	< 39	< 38
Acenaphthylene	NLE	300,000,000	NLE	-	< 37	< 38	< 39	< 38
Acetophenone	2,000	5,000	3,000	-	< 190	< 190	< 190	< 190
Anthracene	17,000,000	30,000,000	2,400,000	-	< 37	< 38	< 39	17.1 J
Atrazine	210,000	2,400,000	200	-	< 190	< 190	< 190	< 190
Benzaldehyde	6,100,000	68,000,000	NLE	-	< 190	< 190	< 190	< 190
Benzo(a)anthracene	0.6	2	0.8	-	< 0.037	< 0.038	< 0.039	0.0546
Benzo(a)pyrene	0.2	0.2	0.2	-	< 0.037	< 0.038	< 0.039	0.0604
Benzo(b)fluoranthene	0.6	2	2	-	< 0.037	< 0.038	< 0.039	0.0714
Benzo(g,h,i)perylene	380,000,000	30,000,000	NLE	-	< 37	< 38	< 39	33.7 J
Benzo(k)fluoranthene	6	23	25	-	< 0.037	< 0.038	< 0.039	0.026 J
Bis(2-Chloroethoxy)methane	NLE	NLE	NLE	-	< 75	< 76	< 78	< 76
Bis(2-Chloroethyl)ether	400	2,000	200	-	< 75	< 76	< 78	< 76
Bis(2-Chloroisopropyl)ether	23,000	67,000	5,000	-	< 75	< 76	< 78	< 76
Bis(2-Ethylhexyl)phthalate	35	140	1,200	-	< 0.075	< 0.076	< 0.078	< 0.076

Attachment C
Table 1 Soil Sampling Results
Site Parcel 28
Fort Monmouth, New Jersey

Footnote:

1) All historical data collected prior to 2013 are reported as provided by others.

2) Number of Analyses is the number of detected and non-detected results excluding rejected results. Sample duplicate pairs have not been averaged.

3) NLE = no limit established.

4) ND = not detected in any background sample, no background concentration available.

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

[blank] = detect, i.e. detected chemical result value.

B = Compound detected in the sample and its associated blank sample.

R = Rejected, data validation rejected the results.

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

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

J = estimated (detect or non-detect) value.

E (or ER) = Estimated result.

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

NA = Not analyzed

6) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the NJ Residential Direct Contact Soil Remediation Standard.

- Cell Shade values represent a result that is above the NJ Non-Residential Direct Contact Soil Remediation Standard.

- Cell Shade values represent a result that is above the NJ Impact to GW Soil Screening Level

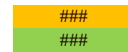
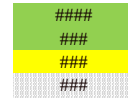
- Cell Style values represent a result that is above the Weston 1995 Background (Charles Wood).

n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.

Dash (-) = only background concentrations for metals are being used as comparison criteria.

- Cell Shade values represent a result that is above both the NJ Residential, Non-Residential, AND NJ Impact to GW Soil Screening Level Direct

- Cell Shade values represent a result that is above both the NJ Residential and Non-Residential Direct Contact Soil Remediation Standard.



7) Criteria action level source document and web address.

- The NJ Residential Direct Contact Soil Remediation Standard refers to the NJDEP's May 7, 2012 Remediation Standards

http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Non-Residential Direct Contact Soil Remediation Standard refers to the NJDEP's May 7, 2012 Remediation Standards.

http://www.nj.gov/dep/rules/rules/njac7_26d.pdf

- The NJ Impact to GW Soil Screening Level criteria refers to the Development of Site Specific Impact to Ground Water Soil Remediation Standards - Nov 2013

http://www.nj.gov/dep/srp/guidance/rs/partition_equation.pdf

- The Weston 1995 Background (Charles Wood) refers to the FTMM reports.

Attachment D

Table 2 Groundwater Sampling Results

Attachment D
Table 2 Groundwater Sampling Results
Site Parcel 28
Fort Monmouth, New Jersey

Loc ID			NJ Ground Water Quality Criteria	Weston 1995 Background (Charles Wood)	PARCEL28-SST-A-E-GW	PARCEL28-FGS-A-GW	PARCEL28-FGS-B-GW	PARCEL28-FGS-C-GW	PARCEL28-FGS-D-GW	PARCEL28-FGS-E-GW	PARCEL28-SSEH-A-GW	PARCEL28-SSSC-A-GW	PARCEL28-SSSC-B-GW
Sample ID					PARCEL 28-GW-SSTA-E	PARCEL 28-GW-FGS-A	PARCEL 28-GW-FGS-B	PARCEL 28-GW-FGS-C	PARCEL 28-GW-FGS-D	PARCEL 28-GW-FGS-E	PARCEL 28-GW-SSEH-A	PARCEL 28-GW-SSSC-A	PARCEL 28-GW-SSSC-B
Sample Date					8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	8/2/2013	7/31/2013	7/17/2013	7/17/2013
Volatile Organic Compounds (µg/l)													
1,1,1-Trichloroethane	30	-			<1	<1	<1	<1	<1	<1	<0.24	<1	<1
1,1,2,2-Tetrachloroethane	1	-			<1	<1	<1	<1	<1	<1	<0.21	<1	<1
1,1,2-Trichloro-1,2,2-Trifluoroethane	100	-			<5	<5	<5	<5	<5	<5	<0.53	<5	<5
1,1,2-Trichloroethane	3	-			<1	<1	<1	<1	<1	<1	<0.29	<1	<1
1,1-Dichloroethane	50	-			<1	<1	<1	<1	<1	<1	<0.11	<1	<1
1,1-Dichloroethene	1	-			<1	<1	<1	<1	<1	<1	<0.19	<1	<1
1,2,3-Trichlorobenzene	100	-			<5	<5	<5	<5	<5	<5	<0.28	<5	<5
1,2,4-Trichlorobenzene	9	-			<5	<5	<5	<5	<5	<5	<0.2	<5	<5
1,2-Dibromo-3-chloropropane	0.02	-			<10	<10	<10	<10	<10	<10	<0.54	<10	<10
1,2-Dibromomethane	0.03	-			<2	<2	<2	<2	<2	<2	<0.2	<2	<2
1,2-Dichlorobenzene	600	-			<1	<1	<1	<1	<1	<1	<0.22	<1	<1
1,2-Dichloroethane	2	-			<1	<1	<1	<1	<1	<1	<0.26	<1	<1
1,2-Dichloropropane	1	-			<1	<1	<1	<1	<1	<1	<0.48	<1	<1
1,3-Dichlorobenzene	600	-			<1	<1	<1	<1	<1	<1	<0.22	<1	<1
1,4-Dichlorobenzene	75	-			<1	<1	<1	<1	<1	<1	<0.3	<1	<1
1,4-Dioxane	10	-			<130	<130	<130	<130	<130	<130	<75	<130	<130
Acetone	5,000	-			<10	<10	<10	<10	<10	<10	<3.3	<10	<10
Benzene	1	-			<1	<1	<1	<1	<1	<1	<0.24	<1	<1
Bromochloromethane	100	-			<5	<5	<5	<5	<5	<5	<0.3	<5	<5
Bromodichloromethane	1	-			<1	<1	<1	<1	<1	<1	<0.21	<1	<1
Bromofom	4	-			<4	<4	<4	<4	<4	<4	<0.21	<4	<4
Carbon disulfide	700	-			<2	<2	<2	<2	<2	<2	<0.19	<2	<2
Carbon tetrachloride	1	-			<1	<1	<1	<1	<1	<1	<0.22	<1	<1
Chlorobenzene	50	-			<1	<1	<1	<1	<1	<1	<0.22	<1	<1
Chlorodibromomethane	1	-			<1	<1	<1	<1	<1	<1	<0.14	<1	<1
Chloroethane	5	-			<1	<1	<1	<1	<1	<1	<0.26	<1	<1
Chloroform	70	-			<1	<1	<1	<1	<1	<1	<0.2	<1	<1
Cis-1,2-Dichloroethene	70	-			<1	<1	<1	<1	<1	<1	<0.19	<1	<1
Cis-1,3-Dichloropropene	1	-			<1	<1	<1	<1	<1	<1	<0.21	<1	<1
Cyclohexane	100	-			<5	<5	<5	<5	<5	<5	<0.35	<5	<5
Dichlorodifluoromethane	1,000	-			<5	<5	<5	<5	<5	<5	<0.27	<5	<5
Ethyl benzene	700	-			<1	<1	<1	<1	<1	<1	<0.23	<1	<1
Isopropylbenzene	700	-			<2	<2	<2	<2	<2	<2	<0.45	<2	<2
Meta/Para Xylene	1,000	-			<1	<1	<1	<1	<1	<1	<0.42	<1	<1
Methyl Acetate	7,000	-			<5	<5	<5	<5	<5	<5	<1.2	<5	<5
Methyl bromide	10	-			<2	<2	<2	<2	<2	<2	<0.22	<2	<2
Methyl butyl ketone	300	-			<5	<5	<5	<5	<5	<5	<1.1	<5	<5
Methyl chloride	100	-			<1	<1	<1	<1	<1	<1	<0.21	<1	<1
Methyl cyclohexane	NLE	-			<5	<5	<5	<5	<5	<5	<0.26	<5	<5
Methyl ethyl ketone	300	-			<10	<10	<10	<10	<10	<10	<2.4	<10	<10
Methyl isobutyl ketone	100	-			<5	<5	<5	<5	<5	<5	<0.93	<5	<5
Methyl Tertbutyl Ether	70	-			<1	<1	<1	<1	<1	<1	<0.16	<1	<1
Methylene chloride	3	-			<2	<2	<2	<2	<2	<2	<0.7	<2	<2
Ortho Xylene	1,000	-			<1	<1	<1	<1	<1	<1	<0.24	<1	<1
Styrene	100	-			<5	<5	<5	<5	<5	<5	<0.21	<5	<5
Tetrachloroethene	1	-			<1	<1	<1	<1	<1	<1	<0.28	<1	<1
Toluene	600	-			<1	<1	<1	<1	<1	<1	<0.23	<1	<1
Total Xylenes	1,000	-			<1	<1	<1	<1	<1	<1	<0.24	<1	<1
Trans-1,2-Dichloroethene	100	-			<1	<1	<1	<1	<1	<1	<0.21	<1	<1
Trans-1,3-Dichloropropene	1	-			<1	<1	<1	<1	<1	<1	<0.19	<1	<1
Trichloroethene	1	-			<1	<1	<1	<1	<1	<1	<0.22	<1	<1
Trichlorofluoromethane	2,000	-			<5	<5	<5	<5	<5	<5	<0.27	<5	<5
Vinyl chloride	1	-			<1	<1	<1	<1	<1	<1	<0.21	<1	<1
TIC VOCs (µg/l)													
Total Alkanes, VOC	NLE	-			0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
Total TIC, Volatile	500	-			0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U	0 U
Semivolatile Organic Compounds (µg/l)													
1,1-Biphenyl	400	-			<1.1	NA	NA	NA	NA	NA	<0.32	<1	<1
1,2,4,5-Tetrachlorobenzene	100	-			<2.1	NA	NA	NA	NA	NA	<0.32	<2	<2
1,2,4,6-Tetrachlorophenol	200	-			<5.3	NA	NA	NA	NA	NA	<1	<5	<5
2,4,5-Trichlorophenol	700	-			<5.3	NA	NA	NA	NA	NA	<1.7	<5	<5
2,4,6-Trichlorophenol	20	-			<5.3	NA	NA	NA	NA	NA	<1.4	<5	<5
2,4-Dichlorophenol	20	-			<5.3	NA	NA	NA	NA	NA	<1.2	<5	<5
2,4-Dimethylphenol	100	-			<5.3	NA	NA	NA	NA	NA	<1.6	<5	<5
2,4-Dinitrophenol	40	-			<21	NA	NA	NA	NA	NA	<18	<20	<20
2,4-Dinitrotoluene	10	-			<2.1	NA	NA	NA	NA	NA	<0.45	<2	<2
2,6-Dinitrotoluene	10	-			<2.1	NA	NA	NA	NA	NA	<0.49	<2	<2
2-Chloronaphthalene	600	-			<2.1	NA	NA	NA	NA	NA	<0.32	<2	<2
2-Chlorophenol	40	-	</										

Attachment D
Table 2 Groundwater Sampling Results
Site Parcel 28
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	Weston 1995 Background (Charles Wood)	PARCEL 28-SSSC-C-GW	PARCEL 28-SSSC-D-GW	PARCEL 28-SSSC-E-GW
Sample ID			PARCEL 28-GW-SSSC-C	PARCEL 28-GW-SSSC-D	PARCEL 28-GW-SSSC-E
Sample Date			7/16/2013	7/16/2013	7/17/2013
Volatile Organic Compounds (µg/l)					
1,1,1-Trichloroethane	30	-	<1	<1	<1
1,1,2,2-Tetrachloroethane	1	-	<1	<1	<1
1,1,2-Trichloro-1,2,2-Trifluoroethane	100	-	<5	<5	<5
1,1,2-Trichloroethane	3	-	<1	<1	<1
1,1-Dichloroethane	50	-	<1	<1	<1
1,1-Dichloroethene	1	-	<1	<1	<1
1,2,3-Trichlorobenzene	100	-	<5	<5	<5
1,2,4-Trichlorobenzene	9	-	<5	<5	<5
1,2-Dibromo-3-chloropropane	0.02	-	<10	<10	<10
1,2-Dibromomethane	0.03	-	<2	<2	<2
1,2-Dichlorobenzene	600	-	<1	<1	<1
1,2-Dichloroethane	2	-	<1	<1	<1
1,2-Dichloropropane	1	-	<1	<1	<1
1,3-Dichlorobenzene	600	-	<1	<1	<1
1,4-Dichlorobenzene	75	-	<1	<1	<1
1,4-Dioxane	10	-	<130	<130	<130
Acetone	6,000	-	<10	<10	<10
Benzene	1	-	<1	<1	<1
Bromochloromethane	100	-	<5	<5	<5
Bromodichloromethane	1	-	<1	<1	<1
Bromoforn	4	-	<4	<4	<4
Carbon disulfide	700	-	<2	<2	<2
Carbon tetrachloride	1	-	<1	<1	<1
Chlorobenzene	50	-	<1	<1	<1
Chlorodibromomethane	1	-	<1	<1	<1
Chloroethane	5	-	<1	<1	<1
Chloroform	70	-	0.29 J	<1	<1
Cis-1,2-Dichloroethene	70	-	<1	<1	<1
Cis-1,3-Dichloropropene	1	-	<1	<1	<1
Cyclohexane	100	-	<5	<5	<5
Dichlorodifluoromethane	1,000	-	<5	<5	<5
Ethyl benzene	700	-	<1	<1	<1
Isopropylbenzene	700	-	<2	<2	<2
MonoPara Xylene	1,000	-	<1	<1	<1
Methyl Acetan	7,000	-	<5	<5	<5
Methyl bromide	10	-	<2	<2	<2
Methyl butyl ketone	300	-	<5	<5	<5
Methyl chloride	100	-	<1	<1	<1
Methyl cyclohexane	NLE	-	<5	<5	<5
Methyl ethyl ketone	300	-	<10	<10	<10
Methyl isobutyl ketone	100	-	<5	<5	<5
Methyl Tertbutyl Ether	70	-	<1	<1	<1
Methylene chloride	3	-	<2	<2	<2
Ortho Xylene	1,000	-	<1	<1	<1
Styrene	100	-	<5	<5	<5
Tetrachloroethene	1	-	<1	<1	<1
Toluene	600	-	<1	<1	<1
Total Xylenes	1,000	-	<1	<1	<1
Trans-1,2-Dichloroethene	100	-	<1	<1	<1
Trans-1,3-Dichloropropene	1	-	<1	<1	<1
Trichloroethene	1	-	<1	<1	<1
Trichlorofluoromethane	2,000	-	<5	<5	<5
Vinyl chloride	1	-	<1	<1	<1
TIC VOCs (µg/l)					
Total Alkanes, VOC	NLE	-	0 U	0 U	0 U
Total TIC, Volatile	500	-	0 U	0 U	0 U
Semivolatile Organic Compounds (µg/l)					
1,1-Biphenyl	400	-	<1	<1	<1
1,2,4,5-Tetrachlorobenzene	100	-	<2	<2	<2
2,3,4,6-Tetrachlorophenol	200	-	<5	<5	<5
2,4,5-Trichlorophenol	700	-	<5	<5	<5
2,4,6-Trichlorophenol	20	-	<5	<5	<5
2,4-Dichlorophenol	20	-	<5	<5	<5
2,4-Dimethylphenol	100	-	<5	<5	<5
2,4-Dinitrophenol	40	-	<20	<20	<20
2,4-Dinitrotoluene	10	-	<2	<2	<2
2,6-Dinitrotoluene	10	-	<2	<2	<2
2-Chloronaphthalene	600	-	<2	<2	<2
2-Chlorophenol	40	-	<5	<5	<5
2-Methylnaphthalene	30	-	<1	<1	<1
2-Methylphenol	100	-	<2	<2	<2
2-Nitroaniline	100	-	<5	<5	<5
2-Nitrophenol	100	-	<5	<5	<5
3&4-Methylphenol	100	-	<2	<2	<2
3,3-Dichlorobenzidine	30	-	<5	<5	<5
3-Nitroaniline	100	-	<5	<5	<5
4,6-Dinitro-2-methylphenol	1	-	<20	<20	<20
4-Bromophenyl phenyl ether	100	-	<2	<2	<2
4-Chloro-3-methylphenol	100	-	<5	<5	<5
4-Chloroaniline	30	-	<5	<5	<5
4-Chlorophenyl phenyl ether	100	-	<2	<2	<2
4-Nitroaniline	5	-	<5	<5	<5
4-Nitrophenol	100	-	<10	<10	<10
Acenaphthene	400	-	<0.1	<0.1	<0.1
Acenaphthylene	100	-	<0.1	<0.1	<0.1
Acetophenone	700	-	<2	<2	<2
Anthracene	2,000	-	<0.1	<0.1	<0.1
Atrazine	3	-	<5	<5	<5
Benzaldehyde	100	-	<5	<5	<5
Benz(a)anthracene	0.1	-	<0.1	<0.1	<0.1
Benz(a)pyrene	0.1	-	<0.1	<0.1	<0.1
Benz(b)fluoranthene	0.2	-	<0.1	<0.1	<0.1
Benz(ghi)perylene	100	-	<0.1	<0.1	<0.1
Benz(k)fluoranthene	0.5	-	<0.1	<0.1	<0.1
Bi(2-Chloroethoxy)methane	100	-	<2	<2	<2
Bi(2-Chloroethyl)ether	7	-	<2	<2	<2
Bi(2-Chloroisopropyl)ether	300	-	<2	<2	<2
Bi(2-Ethylhexyl)phthalate	3	-	<2	<2	2.9
Butyl benzyl phthalate	100	-	<2	<2	<2
Caprolactam	5,000	-	<2	<2	<2
Carbazole	100	-	<1	<1	<1
Chrysene	5	-	<0.1	<0.1	<0.1
Dibenz(a,h)anthracene	0.3	-	<0.1	<0.1	<0.1
Dibenzofuran	100	-	<5	<5	<5
Diethyl phthalate	6,000	-	<2	<2	<2
Dimethyl phthalate	100	-	<2	<2	<2
Di-n-butylphthalate	700	-	<2	<2	<2
Di-n-octylphthalate	100	-	<2	<2	<2
Fluoranthene	300	-	<0.1	<0.1	<0.1
Fluorene	300	-	<0.1	<0.1	<0.1
Hexachlorobenzene	0.02	-	<0.02	<0.02	<0.02
Hexachlorobutadiene	1	-	<1	<1	<1
Hexachlorocyclopentadiene	40	-	<10	<10	<10
Hexachloromethane	7	-	<2	<2	<2
Indeno(1,2,3-cd)pyrene	0.2	-	<0.1	<0.1	<0.1
Isophorene	40	-	<2	<2	<2
Naphthalene	300	-	0.202	<0.1	<0.1
Nitrobenzene	6	-	<2	<2	<2
N-Nitroso-di-n-propylamine	10	-	<2	<2	<2
N-Nitrosodiphenylamine	10	-	<5	<5	<5
Pentachlorophenol	0.3	-	<0.3	<0.3	<0.3
Phenanthrene	100	-	<0.1	<0.1	<0.1
Phenol	2,000	-	<2	<2	<2
Pyrene	200	-	<0.1	<0.1	<0.1
TIC SVOCs (µg/l)					
Total Alkanes, SVOC	NLE	-	0 U	0 U	0 U
Total TIC, Semi-Volatile	500	-	19.6 J	0 U	0 U
Extractable/Volatile Petroleum Hydrocarbons (mg/l)					
EPH (<C28-C40)	NLE	-	<0.05	<0.05	<0.05
EPH (C9-C28)	NLE	-	<0.05	<0.05	0.22
Total EPH	NLE	-	<0.05	<0.05	0.22
Pesticides & PCBs (µg/l)					
4,4'-DDD	0.1	-	<0.01	<0.01	<0.01
4,4'-DDE	0.1	-	<0.01	<0.01	<0.01
4,4'-DDT	0.1	-	<0.01	<0.01	<0.01
Aldrin	0.04	-	<0.01	<0.01	<0.01
Alpha-BHC	0.02	-	<0.01	<0.01	<0.01
Alpha-Chlordane	0.5	-	<0.01	<0.01	<0.01
Beta-BHC	0.04	-	<0.01	<0.01	<0.01
Delta-BHC	100	-	<0.01	<0.01	<0.01
Dieldrin	0.03	-	<0.01	<0.01	<0.01
Endosulfan I	40	-	<0.01	<0.01	<0.01
Endosulfan II	40	-	<0.01	<0.01	<0.01
Endosulfan sulfate	40	-	<0.01	<0.01	<0.01
Endrin	2	-	<0.01	<0.01	<0.01
Endrin aldehyde	100	-	<0.01	<0.01	<0.01
Endrin ketone	100	-	<0.01	<0.01	<0.01
Gamma-BHC/Lindane	0.03	-	<0.01	<0.01	<0.01
Gamma-Chlordane	0.5	-	<0.01	<0.01	<0.01
Hepachlor	0.05	-	<0.01	<0.01	<0.01
Hepachlor epoxide	0.2	-	<0.01	<0.01	<0.01
Methoxychlor	40	-	<0.02	<0.02	<0.02
Toxaphene	2	-	<0.25	<0.25	<0.25
Aroclor-1016	0.5	-	<0.5	<0.5	<0.5
Aroclor-1221	0.5	-	<0.5	<0.5	<0.5
Aroclor-1232	0.5	-	<0.5	<0.5	<0.5
Aroclor-1242	0.5	-	<0.5	<0.5	<0.5
Aroclor-1248	0.5	-	<0.5	<0.5	<0.5
Aroclor-1254	0.5	-	<0.5	<0.5	<0.5
Aroclor-1260	0.5	-	<0.5	<0.5	<0.5
Aroclor-1262	0.5	-	<0.5	<0.5	<0.5
Aroclor-1268	0.5	-	<0.5	<0.5	<0.5
Inorganics (µg/l)					
Aluminum	200	8,210	8,740	4,800	<200
Antimony	6	ND	<6	<6	<6
Arsenic	3	25.1	15.3	6.8	<3
Barium	6,000	192	<200	<200	<200
Beryllium	1	2.8	<1	<1	<1
Calcium	1	3.7	<3	<3	<3
Calcium	NLE	8,700	30,600	37,900	57,100
Chromium	70	49.6	128	58.5	<10
Chromium, Hexavalent	NLE	ND	<0.01	<0.01	<0.01
Cobalt	100	30.6	<50	<50	<50
Copper	1,300	9.8	<10	<10	<10
Cyanide	0.1	ND	<0.01	<0.01	<0.01
Iron	300	19,600	29,900	13,800	182
Lead	5	7.3	23	7.8	<3
Magnesium	NLE	7,160	6,760	13,400	<5000
Manganese	50	232	25.4	53.9	27.6
Mercury	2	ND	<0.2	<0.2	<0.2
Nickel	100	48.3	<10	<10	<10
Potassium	NLE	4,630	<10000	<10000	<10000
Selenium	40	3.8	<10	<10	<10
Silver	40	ND	<10	<10	<10
Sodium	50,000	36,400	29,900	51,300	15,400
Thallium	2	ND	<2	<2	<2
Vanadium	NLE	28.9	87.8	<50	<50
Zinc	2,000	133	21.1	<20	37.4
Wet Chemistry					
pH (su)	NLE	-	6.5	6.44	6.02

Attachment D
Table 2 Groundwater Sampling Results
Site Parcel 28
Fort Monmouth, New Jersey

Footnote:

- 1) All historical data collected prior to 2013 are reported as provided by others.
 - 2) Number of Analyses is the number of detected and non-detected results excluding rejected results. Sample duplicate pairs have not been averaged.
 - 3) NLE = no limit established.
 - 4) ND = not detected in any background sample, no background concentration available.
- 5) Chemical result qualifiers are assigned by the laboratory and is typically evaluated and modified (if necessary) by during data validation.
- | | |
|--|--|
| [blank] = detect, i.e. detected chemical result value. | J = estimated (detect or non-detect) value. |
| B = Compound detected in the sample and its associated blank sample. | E (or ER) = Estimated result. |
| R = Rejected, data validation rejected the results. | D = Results from dilution of sample. |
| U = non-detect, i.e. not detected equal to or above this value. | J-DL = Elevated sample detection limit due to difficult sample matrix. |
| U-DL = Elevated sample detection limit due to difficult sample matrix. | JN = Tentatively identified compound, estimated concentration. |
| U-ND = Analyte not detected in sample, but no detection or reporting limit provided. | |
- 6) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.
- Cell Shade values represent a result that is above the NJ Ground Water Quality Criteria ####
 NJDEP Interim Specific GWQC values are presented for the NJ GWQS where there is not a Specific Ground Water Quality Criteria. A full list of compounds is
 NJDEP Interim Generic GWQC values are presented for the NJ GWQS where there is not a XXXXX or a NJDEP Interim Specific GWQC. Available at
 - Cell Style values represent a result that is above the Weston 1995 Background (Charles Wood). ###
 n/a = all concentrations were less than the detection limit, therefore, no location of maximum value identified.
 Dash (-) = only background concentrations for metals are being used as comparison criteria.
- 7) Criteria action level source document and web address.
- The NJ Ground Water Quality Criteria refers to the NJDEP Groundwater Quality Standards - Adopted July 22, 2010
<http://www.state.nj.us/dep/wms/bwqsa/docs/njac79C.pdf>
 - The Weston 1995 Background (Charles Wood) refers to the FTMM reports.
 NA

Attachment E

Laboratory Data Reports
(included only on the electronic copy of this letter)



09/11/13

Technical Report for

Fort Monmouth Environmental Testing Lab.

Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
CWATP

Accutest Job Number: JB41459

Sampling Date: 07/08/13

Report to:

Fort Monmouth Environmental Testing Lab.

RYouhas@chenega.com

ATTN: Rob Youhas

Total number of pages in report: **15**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads 'Nancy Cole'.

Nancy Cole
Laboratory Director

Client Service contact: Kristin Beebe 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC,
OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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4.5: JB41459-5: SSSC-A(6-6.5)	11
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Sample Summary

Fort Monmouth Environmental Testing Lab.

Job No: JB41459

Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Project No: CWATP

Sample Number	Collected			Received	Matrix		Client Sample ID
	Date	Time	By		Code	Type	
JB41459-1	07/08/13	08:45	RY	07/08/13	SO	Soil	SSSC-B(6-6.5)
JB41459-2	07/08/13	09:10	RY	07/08/13	SO	Soil	SSSC-D(6-6.5)
JB41459-3	07/08/13	09:25	RY	07/08/13	SO	Soil	SSSC-C(6-6.5)
JB41459-4	07/08/13	10:30	RY	07/08/13	SO	Soil	SSSC-E(6-6.5)
JB41459-5	07/08/13	11:00	RY	07/08/13	SO	Soil	SSSC-A(6-6.5)
JB41459-6	07/08/13	11:30	RY	07/08/13	SO	Soil	SSEH-A(7.5-8.0)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Fort Monmouth Environmental Testing Lab.

Job No: JB41459

Site: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, F

Report Date 7/24/2013 8:08:52 AM

On 07/08/2013, 6 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 4.8 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB41459 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.

Wet Chemistry By Method ASTM D1498-76M

Matrix: SO

Batch ID: GN87903

- Sample(s) JB41459-1DUP were used as the QC samples for Redox Potential Vs H2.

Wet Chemistry By Method SM2540 G-97

Matrix: SO

Batch ID: GN87896

- The data for SM2540 G-97 meets quality control requirements.

Wet Chemistry By Method SW846 3060A/7196A

Matrix: SO

Batch ID: GP73274

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB41459-1MS, JB41459-1DUP were used as the QC samples for Chromium, Hexavalent.
- RPD(s) for Duplicate for Chromium, Hexavalent are outside control limits for sample GP73274-D1. High RPD due to possible sample nonhomogeneity.
- GP73274-S1 for Chromium, Hexavalent: Good recovery on soluble XCR matrix spike. Good recovery (103 %) on the post-spike.
- GP73274-S2 for Chromium, Hexavalent: Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.

Wet Chemistry By Method SW846 9045C,D

Matrix: SO

Batch ID: GN87902

- Sample(s) JB41459-1DUP were used as the QC samples for pH.

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

Summary of Hits

Page 1 of 1

Job Number: JB41459

Account: Fort Monmouth Environmental Testing Lab.

Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Collected: 07/08/13

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB41459-1 SSSC-B(6-6.5)						
Chromium, Hexavalent Redox Potential Vs H2 pH		4.0	0.48		mg/kg	SW846 3060A/7196A
		372			mv	ASTM D1498-76M
		7.35			su	SW846 9045C,D
JB41459-2 SSSC-D(6-6.5)						
Chromium, Hexavalent Redox Potential Vs H2 pH		2.8	0.49		mg/kg	SW846 3060A/7196A
		400			mv	ASTM D1498-76M
		6.37			su	SW846 9045C,D
JB41459-3 SSSC-C(6-6.5)						
Chromium, Hexavalent Redox Potential Vs H2 pH		5.1	0.49		mg/kg	SW846 3060A/7196A
		393			mv	ASTM D1498-76M
		6.89			su	SW846 9045C,D
JB41459-4 SSSC-E(6-6.5)						
Chromium, Hexavalent Redox Potential Vs H2 pH		2.1	0.47		mg/kg	SW846 3060A/7196A
		391			mv	ASTM D1498-76M
		7.05			su	SW846 9045C,D
JB41459-5 SSSC-A(6-6.5)						
Chromium, Hexavalent Redox Potential Vs H2 pH		2.6	0.45		mg/kg	SW846 3060A/7196A
		389			mv	ASTM D1498-76M
		7.29			su	SW846 9045C,D
JB41459-6 SSEH-A(7.5-8.0)						
Chromium, Hexavalent Redox Potential Vs H2 pH		1.0	0.48		mg/kg	SW846 3060A/7196A
		391			mv	ASTM D1498-76M
		7.13			su	SW846 9045C,D

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SSSC-B(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-1	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	83.7
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	4.0	0.48	mg/kg	1	07/15/13 15:27	RI	SW846 3060A/7196A
Moisture, Percent	16.3		%	1	07/10/13 13:20	PD	SM2540 G-97
Redox Potential Vs H2	372		mv	1	07/10/13 15:35	SA	ASTM D1498-76M
pH	7.35		su	1	07/10/13 15:12	SA	SW846 9045C,D

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SSSC-D(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-2	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	81.4
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	2.8	0.49	mg/kg	1	07/15/13 16:07	RI	SW846 3060A/7196A
Moisture, Percent	18.6		%	1	07/10/13 13:20	PD	SM2540 G-97
Redox Potential Vs H2	400		mv	1	07/10/13 15:35	SA	ASTM D1498-76M
pH	6.37		su	1	07/10/13 15:12	SA	SW846 9045C,D

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SSSC-C(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-3	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	82.0
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	5.1	0.49	mg/kg	1	07/15/13 16:07	RI	SW846 3060A/7196A
Moisture, Percent	18		%	1	07/10/13 13:20	PD	SM2540 G-97
Redox Potential Vs H2	393		mv	1	07/10/13 15:35	SA	ASTM D1498-76M
pH	6.89		su	1	07/10/13 15:12	SA	SW846 9045C,D

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SSSC-E(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-4	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	85.5
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	2.1	0.47	mg/kg	1	07/15/13 16:07	RI	SW846 3060A/7196A
Moisture, Percent	14.5		%	1	07/10/13 13:20	PD	SM2540 G-97
Redox Potential Vs H2	391		mv	1	07/10/13 15:35	SA	ASTM D1498-76M
pH	7.05		su	1	07/10/13 15:12	SA	SW846 9045C,D

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SSSC-A(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-5	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	89.6
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	2.6	0.45	mg/kg	1	07/15/13 16:07	RI	SW846 3060A/7196A
Moisture, Percent	10.4		%	1	07/10/13 13:20	PD	SM2540 G-97
Redox Potential Vs H2	389		mv	1	07/10/13 15:35	SA	ASTM D1498-76M
pH	7.29		su	1	07/10/13 15:12	SA	SW846 9045C,D

RL = Reporting Limit

4.5
4

Report of Analysis

Client Sample ID:	SSEH-A(7.5-8.0)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-6	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	83.7
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	1.0	0.48	mg/kg	1	07/15/13 16:07	RI	SW846 3060A/7196A
Moisture, Percent	16.3		%	1	07/10/13 13:20	PD	SM2540 G-97
Redox Potential Vs H2	391		mv	1	07/10/13 15:35	SA	ASTM D1498-76M
pH	7.13		su	1	07/10/13 15:12	SA	SW846 9045C,D

RL = Reporting Limit

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Accutest Quote #	Accutest Job #	Matrix Codes
		JB41459	DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment LIQ - Other Liquid AIR - Air SOL - Other Solid WIP - Wipes FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank
Client / Reporting Information		Project Information	
Company Name: U.S. Army Fort Monmouth Street Address: P.O. Box 148 City: Oceanport NJ Zip: 07757 Project Contact: Robert Yurko E-mail: ryurko@usarmy.com Phone: 732-380-7412 Sampler(s) Name(s): Robert Yurko Phone: 732-380-7412		Project Name: CWATP Street: Laboratory Road City: Tinton Falls NJ State: NJ Billing Information (if different from Report to): Company Name: COS, LLC Street Address: P.O. Box 148 City: Oceanport NJ State: NJ Zip: 07757 Client Purchase Order #: DK6/2612-646 Project Manager: Wanda Green Attention: Helene Seichnowitz	
Requested Analysis (see TEST CODE sheet)		Matrix Codes	
Full TCL/THL+30 Hexavalent Chromium BENZEPH PH Vol. Moisture		LAB USE ONLY 1 SSSC-B(6-6.5) 07/08/13 08:45 RY SO 4 0 2 SSSC-D(6-6.5) 07/08/13 09:10 RY SO 4 0 3 SSSC-C(6-6.5) 07/08/13 09:35 RY SO 4 0 4 SSSC-E(6-6.5) 07/08/13 10:30 RY SO 4 0 5 SSSC-A(6-6.5) 07/08/13 11:00 RY SO 4 0 6 SSSH-A(7.5-8.0) 07/08/13 11:30 RY SO 4 0	
Turnaround Time (Business days)		Data Deliverable Information	
☒ Std. 10 Business Days ☐ 5 Day RUSH ☐ 3 Day EMERGENCY ☐ 2 Day EMERGENCY ☐ 1 Day EMERGENCY ☐ other _____ Emergency & Rush T/A data available VIA Lablink		Approved By (Accutest PM): / Date: _____ ☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ FULLT1 (Level 3+4) ☒ NJ Reduced ☐ Commercial "C" ☐ Commercial "A" = Results Only ☐ Commercial "B" = Results + QC Summary ☐ NJ Reduced = Results + QC Summary + Partial Raw data	
Comments / Special Instructions		3 ENCO RES PER SAMPLE 7-8-13	
Sample Custody must be documented below each time samples change possession, including courier delivery.			
Relinquished by Sampler:	Date Time:	Received By:	Date Time:
1 [Signature]	07/08/13 14:10	1 [Signature]	07/08/13 1530
Relinquished by Sampler:	Date Time:	Received By:	Date Time:
3 [Signature]		3 [Signature]	
Relinquished by:	Date Time:	Received By:	Date Time:
5 [Signature]		5 [Signature]	
Custody Seal #	☐ Intact ☐ Not Intact	Preserved where applicable	☐ In Ice ☐ Cooler Temp. 4.8

JB41459: Chain of Custody

Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB41459 **Client:** _____ **Project:** _____
Date / Time Received: 7/8/2013 **Delivery Method:** _____ **Airbill #s:** _____
Cooler Temps (Initial/Adjusted): #1: (4.8/4.8); 0

Cooler Security

<u>Y</u> <u>or</u> <u>N</u>	<u>Y</u> <u>or</u> <u>N</u>
1. Custody Seals Present: ☒ ☐	3. COC Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐	4. Smpl Dates/Time OK ☒ ☐

Cooler Temperature

<u>Y</u> <u>or</u> <u>N</u>
1. Temp criteria achieved: ☒ ☐
2. Cooler temp verification: <u>IR Gun</u>
3. Cooler media: <u>Ice (Bag)</u>
4. No. Coolers: <u>1</u>

Quality Control Preservation

<u>Y</u> <u>or</u> <u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler: ☐ ☐	☒
2. Trip Blank listed on COC: ☐ ☐	☒
3. Samples preserved properly: ☒ ☐	
4. VOCs headspace free: ☐ ☐	☒

Comments

Sample Integrity - Documentation

<u>Y</u> <u>or</u> <u>N</u>
1. Sample labels present on bottles: ☒ ☐
2. Container labeling complete: ☒ ☐
3. Sample container label / COC agree: ☒ ☐

Sample Integrity - Condition

<u>Y</u> <u>or</u> <u>N</u>
1. Sample recvd within HT: ☒ ☐
2. All containers accounted for: ☒ ☐
3. Condition of sample: <u>Intact</u>

Sample Integrity - Instructions

<u>Y</u> <u>or</u> <u>N</u>	<u>N/A</u>
1. Analysis requested is clear: ☒ ☐	
2. Bottles received for unspecified tests: ☐ ☒	
3. Sufficient volume recvd for analysis: ☒ ☐	
4. Compositing instructions clear: ☐ ☐	☒
5. Filtering instructions clear: ☐ ☐	☒



09/11/13

Technical Report for

Fort Monmouth Environmental Testing Lab.

Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
CWATP

Accutest Job Number: JB41459A

Sampling Date: 07/08/13

Report to:

Fort Monmouth Environmental Testing Lab.

RYouhas@chenega.com

ATTN: Rob Youhas

Total number of pages in report: **73**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads 'Nancy Cole'.

Nancy Cole
Laboratory Director

Client Service contact: Kristin Beebe 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC,
OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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Sample Summary

Fort Monmouth Environmental Testing Lab.

Job No: JB41459A

Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Project No: CWATP

Sample Number	Collected			Received	Matrix		Client Sample ID
	Date	Time	By		Code	Type	
JB41459-1A	07/08/13	08:45	RY	07/08/13	SO	Soil	SSSC-B(6-6.5)
JB41459-2A	07/08/13	09:10	RY	07/08/13	SO	Soil	SSSC-D(6-6.5)
JB41459-3A	07/08/13	09:25	RY	07/08/13	SO	Soil	SSSC-C(6-6.5)
JB41459-4A	07/08/13	10:30	RY	07/08/13	SO	Soil	SSSC-E(6-6.5)
JB41459-5A	07/08/13	11:00	RY	07/08/13	SO	Soil	SSSC-A(6-6.5)
JB41459-6A	07/08/13	11:30	RY	07/08/13	SO	Soil	SSEH-A(7.5-8.0)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Fort Monmouth Environmental Testing Lab.

Job No JB41459A

Site: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, F

Report Date 7/29/2013 9:50:34 AM

On 07/08/2013, 6 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 4.8 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB41459A 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.

Volatiles by GCMS By Method SW846 8260B

Matrix: SO

Batch ID: V3C4481

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB41459-2AMS, JB41459-1ADUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- RPD(s) for Duplicate for Methylene chloride, Toluene are outside control limits. High RPD due to low concentration of hit

Matrix: SO

Batch ID: V3C4489

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB42017-14MS, JB42017-13DUP were used as the QC samples indicated.
- Sample(s) JB41459-3A, JB41459-4A, JB41459-5A, JB41459-6A have compound(s) reported with a "B" qualifier, indicating analyte is found in the associated method blank.
- RPD(s) for Duplicate for 1,4-Dioxane, Methylene chloride, Toluene are outside control limits. Outside control limits due to matrix interference.

Extractables by GCMS By Method SW846 8270D

Matrix: SO

Batch ID: OP67344

- All samples were extracted within the recommended method holding time.
- Sample(s) JB41459-3AMS, JB41459-3AMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method NJDEP EPH

Matrix: SO

Batch ID: OP67349

- All samples were extracted within the recommended method holding time.
- Sample(s) JB41459-6AMS, JB41459-6AMSD, JB40637-30ADUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for C10-C12 Aromatics are outside control limits. Outside of in house control limits.
- RPD(s) for Duplicate for C16-C21 Aliphatics, C16-C21 Aromatics, C21-C36 Aromatics, C21-C40 Aliphatics, Total Aliphatics, Total Aromatics, Total EPH are outside control limits Outside of in house control limits.
- RPD(s) for MS/MSD for C10-C12 Aromatics are outside control limits. Outside of in house control limits.
- JB41459-1A, JB41459-2A , JB41459-3A, JB41459-4A, JB41459-5A. JB41459-6A for 2-Bromonaphthalene: a) Fraction surrogate broke through to aliphatics, sample ND.
- OP67349-MS for 2-Bromonaphthalene: Outside of in house control limits.
- OP67349-DUP for 2-Bromonaphthalene: Outside of in house control limits.

Extractables by GC By Method SW846 8081B

Matrix: SO

Batch ID: OP67347

- All samples were extracted within the recommended method holding time.
- Sample(s) JB41459-2AMS, JB41459-2AMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8082A

Matrix: SO

Batch ID: OP67346

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB41459-1AMS, JB41459-1AMSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: SO

Batch ID: MP73097

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB41465-2MS, JB41465-2MSD, JB41465-2SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Aluminum, Antimony, Potassium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Potassium are outside control limits. Probable cause due to matrix interference.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Calcium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Serial Dilution for Antimony, Cadmium are outside control limits. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP73097-SD1 for Vanadium: Serial dilution indicates possible matrix interference.
- MP73097-SD1 for Nickel: Serial dilution indicates possible matrix interference.
- MP73097-SD1 for Manganese: Serial dilution indicates possible matrix interference.
- MP73097-SD1 for Lead: Serial dilution indicates possible matrix interference.
- MP73097-SD1 for Copper: Serial dilution indicates possible matrix interference.
- MP73097-SD1 for Chromium: Serial dilution indicates possible matrix interference.
- MP73097-SD1 for Beryllium: Serial dilution indicates possible matrix interference.
- MP73097-SD1 for Zinc: Serial dilution indicates possible matrix interference.
- MP73097-SD1 for Cobalt: Serial dilution indicates possible matrix interference.
- MP73097-SD1 for Calcium: Serial dilution indicates possible matrix interference.
- MP73097-SD1 for Iron: Serial dilution indicates possible matrix interference.

Metals By Method SW846 7471B

Matrix: SO

Batch ID: MP73144

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB41459-1AMS, JB41459-1AMSD were used as the QC samples for metals.

Wet Chemistry By Method SW846 9012 M/LACHAT

Matrix: SO

Batch ID: GP73233

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB41465-2DUP, JB41465-2MS were used as the QC samples for Cyanide.

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

Summary of Hits

Job Number: JB41459A

Account: Fort Monmouth Environmental Testing Lab.

Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Collected: 07/08/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JB41459-1A SSSC-B(6-6.5)

Methylene chloride	2.6 J	4.8	1.2	ug/kg	SW846 8260B
Toluene	0.30 J	0.96	0.10	ug/kg	SW846 8260B
Total TIC, Volatile	7.3 J			ug/kg	
Aluminum	11200	61		mg/kg	SW846 6010C
Arsenic	7.3	2.4		mg/kg	SW846 6010C
Beryllium	0.67	0.24		mg/kg	SW846 6010C
Calcium	1070	610		mg/kg	SW846 6010C
Chromium	91.7	1.2		mg/kg	SW846 6010C
Iron	25500	61		mg/kg	SW846 6010C
Lead	6.1	2.4		mg/kg	SW846 6010C
Magnesium	1710	610		mg/kg	SW846 6010C
Manganese	25.2	1.8		mg/kg	SW846 6010C
Potassium	2700	1200		mg/kg	SW846 6010C
Vanadium	70.1	6.1		mg/kg	SW846 6010C
Zinc	23.6	2.4		mg/kg	SW846 6010C

JB41459-2A SSSC-D(6-6.5)

Methylene chloride	3.9 J	5.9	1.5	ug/kg	SW846 8260B
Toluene	0.31 J	1.2	0.12	ug/kg	SW846 8260B
Total TIC, Volatile	25.4 J			ug/kg	
Di-n-butyl phthalate	98.6	78	8.6	ug/kg	SW846 8270D
Aluminum	3210	62		mg/kg	SW846 6010C
Arsenic	3.5	2.5		mg/kg	SW846 6010C
Beryllium	0.43	0.25		mg/kg	SW846 6010C
Chromium	51.8	1.2		mg/kg	SW846 6010C
Iron	12300	62		mg/kg	SW846 6010C
Lead	2.8	2.5		mg/kg	SW846 6010C
Magnesium	806	620		mg/kg	SW846 6010C
Manganese	3.9	1.9		mg/kg	SW846 6010C
Potassium	2180	1200		mg/kg	SW846 6010C
Vanadium	40.5	6.2		mg/kg	SW846 6010C
Zinc	9.1	2.5		mg/kg	SW846 6010C

JB41459-3A SSSC-C(6-6.5)

Freon 113	0.76 J	5.3	0.46	ug/kg	SW846 8260B
Methylene chloride	5.0 JB	5.3	1.4	ug/kg	SW846 8260B
Total TIC, Volatile	6.2 J			ug/kg	
Aluminum	10800	62		mg/kg	SW846 6010C
Arsenic	6.3	2.5		mg/kg	SW846 6010C
Beryllium	0.68	0.25		mg/kg	SW846 6010C
Calcium	803	620		mg/kg	SW846 6010C

Summary of Hits

Job Number: JB41459A

Account: Fort Monmouth Environmental Testing Lab.

Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Collected: 07/08/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Chromium		93.4	1.2		mg/kg	SW846 6010C
Iron		21500	62		mg/kg	SW846 6010C
Lead		5.9	2.5		mg/kg	SW846 6010C
Magnesium		1670	620		mg/kg	SW846 6010C
Manganese		11.4	1.9		mg/kg	SW846 6010C
Mercury		0.044	0.039		mg/kg	SW846 7471B
Potassium		3110	1200		mg/kg	SW846 6010C
Vanadium		69.8	6.2		mg/kg	SW846 6010C
Zinc		17.5	2.5		mg/kg	SW846 6010C

JB41459-4A SSSC-E(6-6.5)

Methylene chloride	4.7 JB	5.1	1.3	ug/kg	SW846 8260B
Anthracene	17.1 J	38	13	ug/kg	SW846 8270D
Benzo(a)anthracene	54.6	38	12	ug/kg	SW846 8270D
Benzo(a)pyrene	60.4	38	12	ug/kg	SW846 8270D
Benzo(b)fluoranthene	71.4	38	13	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	33.7 J	38	14	ug/kg	SW846 8270D
Benzo(k)fluoranthene	26.0 J	38	14	ug/kg	SW846 8270D
Chrysene	54.6	38	13	ug/kg	SW846 8270D
Fluoranthene	111	38	17	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	36.7 J	38	13	ug/kg	SW846 8270D
Phenanthrene	68.1	38	17	ug/kg	SW846 8270D
Pyrene	103	38	15	ug/kg	SW846 8270D
4,4' -DDE	2.4	0.77	0.31	ug/kg	SW846 8081B
4,4' -DDT	5.3	0.77	0.38	ug/kg	SW846 8081B
Aluminum	4410	57		mg/kg	SW846 6010C
Arsenic	3.5	2.3		mg/kg	SW846 6010C
Beryllium	0.44	0.23		mg/kg	SW846 6010C
Chromium	41.2	1.1		mg/kg	SW846 6010C
Iron	12300	57		mg/kg	SW846 6010C
Lead	5.4	2.3		mg/kg	SW846 6010C
Magnesium	922	570		mg/kg	SW846 6010C
Manganese	19.0	1.7		mg/kg	SW846 6010C
Potassium	1820	1100		mg/kg	SW846 6010C
Vanadium	31.1	5.7		mg/kg	SW846 6010C
Zinc	22.1	2.3		mg/kg	SW846 6010C

JB41459-5A SSSC-A(6-6.5)

Freon 113	1.3 J	5.2	0.44	ug/kg	SW846 8260B
Methylene chloride	4.1 JB	5.2	1.3	ug/kg	SW846 8260B
Benzo(a)anthracene	19.8 J	34	11	ug/kg	SW846 8270D
Benzo(a)pyrene	19.6 J	34	10	ug/kg	SW846 8270D
Benzo(b)fluoranthene	26.9 J	34	11	ug/kg	SW846 8270D

Summary of Hits

Job Number: JB41459A

Account: Fort Monmouth Environmental Testing Lab.

Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Collected: 07/08/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Benzo(g,h,i)perylene		17.5 J	34	13	ug/kg	SW846 8270D
Chrysene		20.4 J	34	12	ug/kg	SW846 8270D
Fluoranthene		30.4 J	34	15	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		16.0 J	34	12	ug/kg	SW846 8270D
Pyrene		30.5 J	34	13	ug/kg	SW846 8270D
4,4'-DDE		2.3	0.68	0.27	ug/kg	SW846 8081B
4,4'-DDT		2.8	0.68	0.33	ug/kg	SW846 8081B
Aluminum		7740	58		mg/kg	SW846 6010C
Arsenic		5.8	2.3		mg/kg	SW846 6010C
Beryllium		0.63	0.23		mg/kg	SW846 6010C
Calcium		795	580		mg/kg	SW846 6010C
Chromium		68.8	1.2		mg/kg	SW846 6010C
Copper		3.1	2.9		mg/kg	SW846 6010C
Iron		18500	58		mg/kg	SW846 6010C
Lead		13.4	2.3		mg/kg	SW846 6010C
Magnesium		1480	580		mg/kg	SW846 6010C
Manganese		25.5	1.7		mg/kg	SW846 6010C
Mercury		0.078	0.035		mg/kg	SW846 7471B
Potassium		2830	1200		mg/kg	SW846 6010C
Vanadium		45.7	5.8		mg/kg	SW846 6010C
Zinc		90.4	2.3		mg/kg	SW846 6010C

JB41459-6A SSEH-A(7.5-8.0)

Freon 113	0.57 J	5.4	0.47	ug/kg	SW846 8260B
Methylene chloride	7.1 B	5.4	1.4	ug/kg	SW846 8260B
Toluene	0.41 J	1.1	0.11	ug/kg	SW846 8260B
Aluminum	5960	57		mg/kg	SW846 6010C
Arsenic	7.0	2.3		mg/kg	SW846 6010C
Beryllium	0.84	0.23		mg/kg	SW846 6010C
Chromium	82.0	1.1		mg/kg	SW846 6010C
Iron	18900	57		mg/kg	SW846 6010C
Lead	3.0	2.3		mg/kg	SW846 6010C
Magnesium	1910	570		mg/kg	SW846 6010C
Manganese	18.3	1.7		mg/kg	SW846 6010C
Potassium	4830	1100		mg/kg	SW846 6010C
Vanadium	44.5	5.7		mg/kg	SW846 6010C
Zinc	19.3	2.3		mg/kg	SW846 6010C

Sample Results

Report of Analysis

Report of Analysis

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Client Sample ID:	SSSC-B(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-1A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	SW846 8260B SW846 5035		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C100633.D	1	07/09/13	PS	07/08/13 17:00	n/a	V3C4481
Run #2							

	Initial Weight
Run #1	6.2 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	9.6	1.6	ug/kg	
71-43-2	Benzene	ND	0.96	0.11	ug/kg	
74-97-5	Bromochloromethane	ND	4.8	0.26	ug/kg	
75-27-4	Bromodichloromethane	ND	4.8	0.10	ug/kg	
75-25-2	Bromoform	ND	4.8	0.15	ug/kg	
74-83-9	Bromomethane	ND	4.8	0.26	ug/kg	
78-93-3	2-Butanone (MEK)	ND	9.6	2.3	ug/kg	
75-15-0	Carbon disulfide	ND	4.8	0.11	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.8	0.13	ug/kg	
108-90-7	Chlorobenzene	ND	4.8	0.10	ug/kg	
75-00-3	Chloroethane	ND	4.8	0.22	ug/kg	
67-66-3	Chloroform	ND	4.8	0.080	ug/kg	
74-87-3	Chloromethane	ND	4.8	0.18	ug/kg	
110-82-7	Cyclohexane	ND	4.8	0.12	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	9.6	0.86	ug/kg	
124-48-1	Dibromochloromethane	ND	4.8	0.16	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.96	0.12	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.8	0.18	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.8	0.18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.8	0.17	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.8	0.22	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.8	0.13	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.96	0.13	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4.8	0.25	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4.8	0.18	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4.8	0.23	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.8	0.15	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.8	0.13	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.8	0.15	ug/kg	
123-91-1	1,4-Dioxane	ND	120	57	ug/kg	
100-41-4	Ethylbenzene	ND	0.96	0.25	ug/kg	
76-13-1	Freon 113	ND	4.8	0.41	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

Page 2 of 2

Client Sample ID:	SSSC-B(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-1A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	SW846 8260B SW846 5035		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	4.8	0.60	ug/kg	
98-82-8	Isopropylbenzene	ND	4.8	0.072	ug/kg	
79-20-9	Methyl Acetate	ND	4.8	2.5	ug/kg	
108-87-2	Methylcyclohexane	ND	4.8	0.16	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.96	0.23	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.8	0.72	ug/kg	
75-09-2	Methylene chloride	2.6	4.8	1.2	ug/kg	J
100-42-5	Styrene	ND	4.8	0.088	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.8	0.13	ug/kg	
127-18-4	Tetrachloroethene	ND	4.8	0.17	ug/kg	
108-88-3	Toluene	0.30	0.96	0.10	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	4.8	0.16	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.8	0.13	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.8	0.10	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.8	0.17	ug/kg	
79-01-6	Trichloroethene	ND	4.8	0.17	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.8	0.29	ug/kg	
75-01-4	Vinyl chloride	ND	4.8	0.14	ug/kg	
	m,p-Xylene	ND	0.96	0.17	ug/kg	
95-47-6	o-Xylene	ND	0.96	0.13	ug/kg	
1330-20-7	Xylene (total)	ND	0.96	0.13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		65-131%
17060-07-0	1,2-Dichloroethane-D4	87%		70-121%
2037-26-5	Toluene-D8	95%		80-128%
460-00-4	4-Bromofluorobenzene	91%		67-131%

CAS No.	Tentatively Identified Compounds	R. T.	Est. Conc.	Units	Q
	unknown	8.50	7.3	ug/kg	J
	Total TIC, Volatile		7.3	ug/kg	J
	Total Alkanes		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

Report of Analysis

Page 1 of 3

Client Sample ID:	SSSC-B(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-1A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	SW846 8270D SW846 3550C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M95519.D	1	07/12/13	AD	07/10/13	OP67344	EM3884
Run #2							

	Initial Weight	Final Volume
Run #1	31.9 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	190	38	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	37	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	60	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	63	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	750	46	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	750	46	ug/kg	
95-48-7	2-Methylphenol	ND	75	43	ug/kg	
	3&4-Methylphenol	ND	75	48	ug/kg	
88-75-5	2-Nitrophenol	ND	190	40	ug/kg	
100-02-7	4-Nitrophenol	ND	370	63	ug/kg	
87-86-5	Pentachlorophenol	ND	370	64	ug/kg	
108-95-2	Phenol	ND	75	39	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	39	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	43	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	35	ug/kg	
83-32-9	Acenaphthene	ND	37	11	ug/kg	
208-96-8	Acenaphthylene	ND	37	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.6	ug/kg	
120-12-7	Anthracene	ND	37	13	ug/kg	
1912-24-9	Atrazine	ND	190	7.4	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	13	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	75	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	75	22	ug/kg	
92-52-4	1,1'-Biphenyl	ND	75	4.3	ug/kg	
100-52-7	Benzaldehyde	ND	190	8.6	ug/kg	
91-58-7	2-Chloronaphthalene	ND	75	12	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	ND	75	17	ug/kg	

ND = Not detected MDL - Method Detection Limit

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N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	SSSC-B(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-1A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	SW846 8270D SW846 3550C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	75	12	ug/kg	
218-01-9	Chrysene	ND	37	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	75	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	75	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	75	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	75	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	75	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	75	14	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	190	9.5	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	37	13	ug/kg	
132-64-9	Dibenzofuran	ND	75	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	75	8.3	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	75	18	ug/kg	
84-66-2	Diethyl phthalate	ND	75	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	75	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	75	33	ug/kg	
206-44-0	Fluoranthene	ND	37	17	ug/kg	
86-73-7	Fluorene	ND	37	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	75	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	37	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	370	38	ug/kg	
67-72-1	Hexachloroethane	ND	190	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	37	13	ug/kg	
78-59-1	Isophorone	ND	75	10	ug/kg	
91-57-6	2-Methylnaphthalene	ND	75	21	ug/kg	
88-74-4	2-Nitroaniline	ND	190	16	ug/kg	
99-09-2	3-Nitroaniline	ND	190	15	ug/kg	
100-01-6	4-Nitroaniline	ND	190	15	ug/kg	
91-20-3	Naphthalene	ND	37	10	ug/kg	
98-95-3	Nitrobenzene	ND	75	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	75	9.1	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	22	ug/kg	
85-01-8	Phenanthrene	ND	37	17	ug/kg	
129-00-0	Pyrene	ND	37	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	57%		13-110%
4165-62-2	Phenol-d5	62%		15-110%

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SSSC-B(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-1A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	SW846 8270D SW846 3550C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	71%		20-123%
4165-60-0	Nitrobenzene-d5	72%		10-110%
321-60-8	2-Fluorobiphenyl	70%		17-110%
1718-51-0	Terphenyl-d14	70%		30-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.94	400	ug/kg	J
	system artifact	2.19	180	ug/kg	J
	system artifact	2.41	1200	ug/kg	J
	system artifact	3.28	180	ug/kg	J
	system artifact	3.43	340	ug/kg	J
	system artifact	3.49	180	ug/kg	J
	system artifact	3.54	280	ug/kg	J
	system artifact/aldol-condensation	3.62	4600	ug/kg	J
	system artifact	3.72	190	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	
	Total Alkanes		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

Report of Analysis

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Client Sample ID:	SSSC-B(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-1A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	SW846 8081B SW846 3546		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G76975.D	1	07/10/13	VDT	07/10/13	OP67347	G3G2644
Run #2							

	Initial Weight	Final Volume
Run #1	16.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.75	0.34	ug/kg	
319-84-6	alpha-BHC	ND	0.75	0.22	ug/kg	
319-85-7	beta-BHC	ND	0.75	0.47	ug/kg	
319-86-8	delta-BHC	ND	0.75	0.37	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.75	0.37	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.75	0.28	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.75	0.52	ug/kg	
60-57-1	Dieldrin	ND	0.75	0.29	ug/kg	
72-54-8	4,4' -DDD	ND	0.75	0.41	ug/kg	
72-55-9	4,4' -DDE	ND	0.75	0.30	ug/kg	
50-29-3	4,4' -DDT	ND	0.75	0.37	ug/kg	
72-20-8	Endrin	ND	0.75	0.24	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.75	0.32	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.75	0.39	ug/kg	
959-98-8	Endosulfan-I	ND	0.75	0.28	ug/kg	
33213-65-9	Endosulfan-II	ND	0.75	0.45	ug/kg	
76-44-8	Heptachlor	ND	0.75	0.36	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.75	0.28	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.73	ug/kg	
53494-70-5	Endrin ketone	ND	0.75	0.30	ug/kg	
8001-35-2	Toxaphene	ND	19	9.4	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	71%		11-151%
877-09-8	Tetrachloro-m-xylene	66%		11-151%
2051-24-3	Decachlorobiphenyl	58%		11-170%
2051-24-3	Decachlorobiphenyl	72%		11-170%

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

Page 1 of 1

Client Sample ID:	SSSC-B(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-1A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	SW846 8082A SW846 3546		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX136233.D	1	07/10/13	JR	07/10/13	OP67346	GXX4716
Run #2							

	Initial Weight	Final Volume
Run #1	16.3 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	9.5	ug/kg	
11104-28-2	Aroclor 1221	ND	37	22	ug/kg	
11141-16-5	Aroclor 1232	ND	37	19	ug/kg	
53469-21-9	Aroclor 1242	ND	37	12	ug/kg	
12672-29-6	Aroclor 1248	ND	37	11	ug/kg	
11097-69-1	Aroclor 1254	ND	37	17	ug/kg	
11096-82-5	Aroclor 1260	ND	37	12	ug/kg	
11100-14-4	Aroclor 1268	ND	37	11	ug/kg	
37324-23-5	Aroclor 1262	ND	37	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	73%		17-146%
877-09-8	Tetrachloro-m-xylene	74%		17-146%
2051-24-3	Decachlorobiphenyl	67%		12-155%
2051-24-3	Decachlorobiphenyl	69%		12-155%

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Report of Analysis

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Client Sample ID:	SSSC-B(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-1A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	NJDEP EPH SW846 3546		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Y9404.D	1	07/12/13	GAD	07/10/13	OP67349	G6Y376
Run #2							

	Initial Weight	Final Volume
Run #1	15.7 g	2.0 ml
Run #2		

NJDEP EPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C10-C12 Aromatics	ND	6.1	0.18	mg/kg	
	C12-C16 Aromatics	ND	6.1	0.26	mg/kg	
	C16-C21 Aromatics	ND	6.1	0.38	mg/kg	
	C21-C36 Aromatics	ND	6.1	0.61	mg/kg	
	Total Aromatics	ND	6.1	0.18	mg/kg	
	C9-C12 Aliphatics	ND	6.1	0.17	mg/kg	
	C12-C16 Aliphatics	ND	6.1	0.26	mg/kg	
	C16-C21 Aliphatics	ND	6.1	0.23	mg/kg	
	C21-C40 Aliphatics	ND	6.1	0.67	mg/kg	
	Total Aliphatics	ND	6.1	0.17	mg/kg	
	Total EPH	ND	6.1	0.17	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		40-140%
321-60-8	2-Fluorobiphenyl	84%		40-140%
3386-33-2	1-Chlorooctadecane	100%		40-140%
580-13-2	2-Bromonaphthalene	16% ^a		40-140%

(a) Fraction surrogate broke through to aliphatics, sample ND.

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Report of Analysis

Page 1 of 1

Client Sample ID: SSSC-B(6-6.5)	Date Sampled: 07/08/13
Lab Sample ID: JB41459-1A	Date Received: 07/08/13
Matrix: SO - Soil	Percent Solids: 83.7
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	11200	61	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Antimony	< 2.4	2.4	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Arsenic	7.3	2.4	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Barium	< 24	24	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Beryllium	0.67	0.24	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Cadmium	< 0.61	0.61	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Calcium	1070	610	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Chromium	91.7	1.2	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Cobalt	< 6.1	6.1	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Copper	< 3.0	3.0	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Iron	25500	61	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Lead	6.1	2.4	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Magnesium	1710	610	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Manganese	25.2	1.8	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Mercury	< 0.037	0.037	mg/kg	1	07/12/13	07/12/13 JW	SW846 7471B ¹	SW846 7471B ⁴
Nickel	< 4.9	4.9	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Potassium	2700	1200	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Selenium	< 2.4	2.4	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Silver	< 0.61	0.61	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Sodium	< 1200	1200	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Thallium	< 1.2	1.2	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Vanadium	70.1	6.1	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Zinc	23.6	2.4	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: MA31640

(2) Instrument QC Batch: MA31698

(3) Prep QC Batch: MP73097

(4) Prep QC Batch: MP73144

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SSSC-B(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-1A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	83.7
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.28	0.28	mg/kg	1	07/10/13 09:35	CV	SW846 9012 M/LACHAT

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	SSSC-D(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-2A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	81.4
Method:	SW846 8260B SW846 5035		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C100634.D	1	07/09/13	PS	07/08/13 17:00	n/a	V3C4481
Run #2							

	Initial Weight
Run #1	5.2 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.0	ug/kg	
71-43-2	Benzene	ND	1.2	0.14	ug/kg	
74-97-5	Bromochloromethane	ND	5.9	0.31	ug/kg	
75-27-4	Bromodichloromethane	ND	5.9	0.12	ug/kg	
75-25-2	Bromoform	ND	5.9	0.18	ug/kg	
74-83-9	Bromomethane	ND	5.9	0.32	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.8	ug/kg	
75-15-0	Carbon disulfide	ND	5.9	0.14	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.9	0.16	ug/kg	
108-90-7	Chlorobenzene	ND	5.9	0.13	ug/kg	
75-00-3	Chloroethane	ND	5.9	0.27	ug/kg	
67-66-3	Chloroform	ND	5.9	0.098	ug/kg	
74-87-3	Chloromethane	ND	5.9	0.22	ug/kg	
110-82-7	Cyclohexane	ND	5.9	0.15	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	5.9	0.19	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.15	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.9	0.22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.9	0.22	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.9	0.21	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.9	0.27	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.9	0.16	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.9	0.30	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.9	0.22	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.9	0.28	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.9	0.18	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.9	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.9	0.18	ug/kg	
123-91-1	1,4-Dioxane	ND	150	70	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.31	ug/kg	
76-13-1	Freon 113	ND	5.9	0.51	ug/kg	

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Report of Analysis

Page 2 of 2

Client Sample ID:	SSSC-D(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-2A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	81.4
Method:	SW846 8260B SW846 5035		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.9	0.73	ug/kg	
98-82-8	Isopropylbenzene	ND	5.9	0.088	ug/kg	
79-20-9	Methyl Acetate	ND	5.9	3.1	ug/kg	
108-87-2	Methylcyclohexane	ND	5.9	0.20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.28	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.9	0.89	ug/kg	
75-09-2	Methylene chloride	3.9	5.9	1.5	ug/kg	J
100-42-5	Styrene	ND	5.9	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.9	0.16	ug/kg	
127-18-4	Tetrachloroethene	ND	5.9	0.20	ug/kg	
108-88-3	Toluene	0.31	1.2	0.12	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.9	0.19	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.9	0.16	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.9	0.13	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.9	0.21	ug/kg	
79-01-6	Trichloroethene	ND	5.9	0.21	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.9	0.35	ug/kg	
75-01-4	Vinyl chloride	ND	5.9	0.17	ug/kg	
	m,p-Xylene	ND	1.2	0.21	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.16	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		65-131%
17060-07-0	1,2-Dichloroethane-D4	88%		70-121%
2037-26-5	Toluene-D8	93%		80-128%
460-00-4	4-Bromofluorobenzene	91%		67-131%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	7.59	7.4	ug/kg	J
	unknown	8.49	18	ug/kg	J
	Total TIC, Volatile		25.4	ug/kg	J
	Total Alkanes		0	ug/kg	

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Report of Analysis

Page 1 of 3

Client Sample ID:	SSSC-D(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-2A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	81.4
Method:	SW846 8270D SW846 3550C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M95520.D	1	07/12/13	AD	07/10/13	OP67344	EM3884
Run #2							

Run #	Initial Weight	Final Volume
Run #1	31.7 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	190	39	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	39	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	62	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	65	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	780	47	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	780	47	ug/kg	
95-48-7	2-Methylphenol	ND	78	44	ug/kg	
	3&4-Methylphenol	ND	78	49	ug/kg	
88-75-5	2-Nitrophenol	ND	190	41	ug/kg	
100-02-7	4-Nitrophenol	ND	390	65	ug/kg	
87-86-5	Pentachlorophenol	ND	390	66	ug/kg	
108-95-2	Phenol	ND	78	41	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	40	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	45	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	36	ug/kg	
83-32-9	Acenaphthene	ND	39	11	ug/kg	
208-96-8	Acenaphthylene	ND	39	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.8	ug/kg	
120-12-7	Anthracene	ND	39	14	ug/kg	
1912-24-9	Atrazine	ND	190	7.6	ug/kg	
56-55-3	Benzo(a)anthracene	ND	39	13	ug/kg	
50-32-8	Benzo(a)pyrene	ND	39	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	39	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	39	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	39	15	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	78	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	78	22	ug/kg	
92-52-4	1,1'-Biphenyl	ND	78	4.5	ug/kg	
100-52-7	Benzaldehyde	ND	190	8.9	ug/kg	
91-58-7	2-Chloronaphthalene	ND	78	12	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	ND	78	18	ug/kg	

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Report of Analysis

Page 2 of 3

Client Sample ID:	SSSC-D(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-2A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	81.4
Method:	SW846 8270D SW846 3550C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	78	12	ug/kg	
218-01-9	Chrysene	ND	39	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	78	16	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	78	12	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	78	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	78	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	78	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	78	15	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	190	9.8	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	39	13	ug/kg	
132-64-9	Dibenzofuran	ND	78	12	ug/kg	
84-74-2	Di-n-butyl phthalate	98.6	78	8.6	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	78	19	ug/kg	
84-66-2	Diethyl phthalate	ND	78	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	78	14	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	78	34	ug/kg	
206-44-0	Fluoranthene	ND	39	17	ug/kg	
86-73-7	Fluorene	ND	39	13	ug/kg	
118-74-1	Hexachlorobenzene	ND	78	13	ug/kg	
87-68-3	Hexachlorobutadiene	ND	39	11	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	390	40	ug/kg	
67-72-1	Hexachloroethane	ND	190	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	39	13	ug/kg	
78-59-1	Isophorone	ND	78	10	ug/kg	
91-57-6	2-Methylnaphthalene	ND	78	22	ug/kg	
88-74-4	2-Nitroaniline	ND	190	17	ug/kg	
99-09-2	3-Nitroaniline	ND	190	16	ug/kg	
100-01-6	4-Nitroaniline	ND	190	15	ug/kg	
91-20-3	Naphthalene	ND	39	11	ug/kg	
98-95-3	Nitrobenzene	ND	78	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	78	9.5	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	23	ug/kg	
85-01-8	Phenanthrene	ND	39	18	ug/kg	
129-00-0	Pyrene	ND	39	15	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	68%		13-110%
4165-62-2	Phenol-d5	75%		15-110%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 3 of 3

Client Sample ID:	SSSC-D(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-2A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	81.4
Method:	SW846 8270D SW846 3550C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	78%		20-123%
4165-60-0	Nitrobenzene-d5	91%		10-110%
321-60-8	2-Fluorobiphenyl	86%		17-110%
1718-51-0	Terphenyl-d14	82%		30-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.94	660	ug/kg	J
	system artifact	2.19	400	ug/kg	J
	system artifact	2.41	620	ug/kg	J
	system artifact	3.28	310	ug/kg	J
	system artifact	3.43	240	ug/kg	J
	system artifact	3.49	160	ug/kg	J
	system artifact	3.54	250	ug/kg	J
	system artifact/aldol-condensation	3.61	2300	ug/kg	J
	system artifact	3.71	180	ug/kg	J
	system artifact	4.36	270	ug/kg	J
	system artifact	4.63	190	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	
	Total Alkanes		0	ug/kg	

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 RL = Reporting Limit
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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-D(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-2A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	81.4
Method:	SW846 8081B SW846 3546		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G76976.D	1	07/10/13	VDT	07/10/13	OP67347	G3G2644
Run #2							

	Initial Weight	Final Volume
Run #1	15.0 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.82	0.38	ug/kg	
319-84-6	alpha-BHC	ND	0.82	0.24	ug/kg	
319-85-7	beta-BHC	ND	0.82	0.51	ug/kg	
319-86-8	delta-BHC	ND	0.82	0.40	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.82	0.40	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.82	0.30	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.82	0.57	ug/kg	
60-57-1	Dieldrin	ND	0.82	0.32	ug/kg	
72-54-8	4,4' -DDD	ND	0.82	0.45	ug/kg	
72-55-9	4,4' -DDE	ND	0.82	0.33	ug/kg	
50-29-3	4,4' -DDT	ND	0.82	0.40	ug/kg	
72-20-8	Endrin	ND	0.82	0.27	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.82	0.35	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.82	0.43	ug/kg	
959-98-8	Endosulfan-I	ND	0.82	0.31	ug/kg	
33213-65-9	Endosulfan-II	ND	0.82	0.49	ug/kg	
76-44-8	Heptachlor	ND	0.82	0.40	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.82	0.31	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.80	ug/kg	
53494-70-5	Endrin ketone	ND	0.82	0.33	ug/kg	
8001-35-2	Toxaphene	ND	20	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%		11-151%
877-09-8	Tetrachloro-m-xylene	64%		11-151%
2051-24-3	Decachlorobiphenyl	65%		11-170%
2051-24-3	Decachlorobiphenyl	70%		11-170%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-D(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-2A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	81.4
Method:	SW846 8082A SW846 3546		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX136234.D	1	07/10/13	JR	07/10/13	OP67346	GXX4716
Run #2							

	Initial Weight	Final Volume
Run #1	16.0 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	10	ug/kg	
11104-28-2	Aroclor 1221	ND	38	23	ug/kg	
11141-16-5	Aroclor 1232	ND	38	19	ug/kg	
53469-21-9	Aroclor 1242	ND	38	12	ug/kg	
12672-29-6	Aroclor 1248	ND	38	12	ug/kg	
11097-69-1	Aroclor 1254	ND	38	18	ug/kg	
11096-82-5	Aroclor 1260	ND	38	13	ug/kg	
11100-14-4	Aroclor 1268	ND	38	11	ug/kg	
37324-23-5	Aroclor 1262	ND	38	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		17-146%
877-09-8	Tetrachloro-m-xylene	79%		17-146%
2051-24-3	Decachlorobiphenyl	68%		12-155%
2051-24-3	Decachlorobiphenyl	76%		12-155%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-D(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-2A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	81.4
Method:	NJDEP EPH SW846 3546		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Y9405.D	1	07/12/13	GAD	07/10/13	OP67349	G6Y376
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	2.0 ml
Run #2		

NJDEP EPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C10-C12 Aromatics	ND	6.3	0.19	mg/kg	
	C12-C16 Aromatics	ND	6.3	0.27	mg/kg	
	C16-C21 Aromatics	ND	6.3	0.39	mg/kg	
	C21-C36 Aromatics	ND	6.3	0.63	mg/kg	
	Total Aromatics	ND	6.3	0.19	mg/kg	
	C9-C12 Aliphatics	ND	6.3	0.17	mg/kg	
	C12-C16 Aliphatics	ND	6.3	0.27	mg/kg	
	C16-C21 Aliphatics	ND	6.3	0.24	mg/kg	
	C21-C40 Aliphatics	ND	6.3	0.69	mg/kg	
	Total Aliphatics	ND	6.3	0.17	mg/kg	
	Total EPH	ND	6.3	0.17	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	60%		40-140%
321-60-8	2-Fluorobiphenyl	56%		40-140%
3386-33-2	1-Chlorooctadecane	78%		40-140%
580-13-2	2-Bromonaphthalene	14% ^a		40-140%

(a) Fraction surrogate broke through to aliphatics, sample ND.

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Report of Analysis

Page 1 of 1

Client Sample ID: SSSC-D(6-6.5)	Date Sampled: 07/08/13
Lab Sample ID: JB41459-2A	Date Received: 07/08/13
Matrix: SO - Soil	Percent Solids: 81.4
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	3210	62	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Antimony	< 2.5	2.5	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Arsenic	3.5	2.5	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Barium	< 25	25	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Beryllium	0.43	0.25	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Cadmium	< 0.62	0.62	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Calcium	< 620	620	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Chromium	51.8	1.2	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Cobalt	< 6.2	6.2	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Copper	< 3.1	3.1	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Iron	12300	62	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Lead	2.8	2.5	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Magnesium	806	620	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Manganese	3.9	1.9	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Mercury	< 0.039	0.039	mg/kg	1	07/12/13	07/12/13 JW	SW846 7471B ¹	SW846 7471B ⁴
Nickel	< 5.0	5.0	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Potassium	2180	1200	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Selenium	< 2.5	2.5	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Silver	< 0.62	0.62	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Sodium	< 1200	1200	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Thallium	< 1.2	1.2	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Vanadium	40.5	6.2	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Zinc	9.1	2.5	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: MA31640

(2) Instrument QC Batch: MA31698

(3) Prep QC Batch: MP73097

(4) Prep QC Batch: MP73144

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SSSC-D(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-2A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	81.4
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.24	0.24	mg/kg	1	07/10/13 09:37	CV	SW846 9012 M/LACHAT

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	SSSC-C(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-3A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	82.0
Method:	SW846 8260B SW846 5035		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C100817.D	1	07/13/13	PS	07/08/13 17:00	n/a	V3C4489
Run #2							

	Initial Weight
Run #1	5.7 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	1.8	ug/kg	
71-43-2	Benzene	ND	1.1	0.13	ug/kg	
74-97-5	Bromochloromethane	ND	5.3	0.28	ug/kg	
75-27-4	Bromodichloromethane	ND	5.3	0.11	ug/kg	
75-25-2	Bromoform	ND	5.3	0.16	ug/kg	
74-83-9	Bromomethane	ND	5.3	0.29	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.6	ug/kg	
75-15-0	Carbon disulfide	ND	5.3	0.13	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.3	0.14	ug/kg	
108-90-7	Chlorobenzene	ND	5.3	0.12	ug/kg	
75-00-3	Chloroethane	ND	5.3	0.24	ug/kg	
67-66-3	Chloroform	ND	5.3	0.088	ug/kg	
74-87-3	Chloromethane	ND	5.3	0.20	ug/kg	
110-82-7	Cyclohexane	ND	5.3	0.13	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	11	0.95	ug/kg	
124-48-1	Dibromochloromethane	ND	5.3	0.18	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.14	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.3	0.20	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.3	0.20	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.3	0.19	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.3	0.24	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.3	0.15	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.14	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.3	0.27	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.3	0.20	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.3	0.25	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.3	0.16	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.3	0.15	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.3	0.17	ug/kg	
123-91-1	1,4-Dioxane	ND	130	64	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.28	ug/kg	
76-13-1	Freon 113	0.76	5.3	0.46	ug/kg	J

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SSSC-C(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-3A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	82.0
Method:	SW846 8260B SW846 5035		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.3	0.67	ug/kg	
98-82-8	Isopropylbenzene	ND	5.3	0.079	ug/kg	
79-20-9	Methyl Acetate	ND	5.3	2.8	ug/kg	
108-87-2	Methylcyclohexane	ND	5.3	0.18	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.25	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.3	0.80	ug/kg	
75-09-2	Methylene chloride	5.0	5.3	1.4	ug/kg	JB
100-42-5	Styrene	ND	5.3	0.098	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.3	0.14	ug/kg	
127-18-4	Tetrachloroethene	ND	5.3	0.18	ug/kg	
108-88-3	Toluene	ND	1.1	0.11	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.3	0.18	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.3	0.15	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.3	0.11	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.3	0.19	ug/kg	
79-01-6	Trichloroethene	ND	5.3	0.19	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.3	0.32	ug/kg	
75-01-4	Vinyl chloride	ND	5.3	0.15	ug/kg	
	m,p-Xylene	ND	1.1	0.19	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.15	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		65-131%
17060-07-0	1,2-Dichloroethane-D4	95%		70-121%
2037-26-5	Toluene-D8	93%		80-128%
460-00-4	4-Bromofluorobenzene	94%		67-131%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	8.49	6.2	ug/kg	J
	Total TIC, Volatile		6.2	ug/kg	J
	Total Alkanes		0	ug/kg	

ND = Not detected MDL - Method Detection Limit

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 3

Client Sample ID:	SSSC-C(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-3A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	82.0
Method:	SW846 8270D SW846 3550C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M95521.D	1	07/12/13	AD	07/10/13	OP67344	EM3884
Run #2							

Run #	Initial Weight	Final Volume
Run #1	32.2 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	190	38	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	38	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	61	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	64	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	760	46	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	760	46	ug/kg	
95-48-7	2-Methylphenol	ND	76	43	ug/kg	
	3&4-Methylphenol	ND	76	48	ug/kg	
88-75-5	2-Nitrophenol	ND	190	40	ug/kg	
100-02-7	4-Nitrophenol	ND	380	64	ug/kg	
87-86-5	Pentachlorophenol	ND	380	65	ug/kg	
108-95-2	Phenol	ND	76	40	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	39	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	44	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	36	ug/kg	
83-32-9	Acenaphthene	ND	38	11	ug/kg	
208-96-8	Acenaphthylene	ND	38	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.7	ug/kg	
120-12-7	Anthracene	ND	38	13	ug/kg	
1912-24-9	Atrazine	ND	190	7.5	ug/kg	
56-55-3	Benzo(a)anthracene	ND	38	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	38	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	38	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	38	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	38	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	76	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	76	22	ug/kg	
92-52-4	1,1'-Biphenyl	ND	76	4.4	ug/kg	
100-52-7	Benzaldehyde	ND	190	8.7	ug/kg	
91-58-7	2-Chloronaphthalene	ND	76	12	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	ND	76	18	ug/kg	

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

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N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 3

Client Sample ID:	SSSC-C(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-3A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	82.0
Method:	SW846 8270D SW846 3550C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	76	12	ug/kg	
218-01-9	Chrysene	ND	38	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	76	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	76	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	76	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	76	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	76	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	76	14	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	190	9.6	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	38	13	ug/kg	
132-64-9	Dibenzofuran	ND	76	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	76	8.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	76	18	ug/kg	
84-66-2	Diethyl phthalate	ND	76	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	76	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	76	33	ug/kg	
206-44-0	Fluoranthene	ND	38	17	ug/kg	
86-73-7	Fluorene	ND	38	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	76	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	38	11	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	380	39	ug/kg	
67-72-1	Hexachloroethane	ND	190	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	38	13	ug/kg	
78-59-1	Isophorone	ND	76	10	ug/kg	
91-57-6	2-Methylnaphthalene	ND	76	21	ug/kg	
88-74-4	2-Nitroaniline	ND	190	17	ug/kg	
99-09-2	3-Nitroaniline	ND	190	15	ug/kg	
100-01-6	4-Nitroaniline	ND	190	15	ug/kg	
91-20-3	Naphthalene	ND	38	10	ug/kg	
98-95-3	Nitrobenzene	ND	76	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	76	9.2	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	23	ug/kg	
85-01-8	Phenanthrene	ND	38	17	ug/kg	
129-00-0	Pyrene	ND	38	15	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	63%		13-110%
4165-62-2	Phenol-d5	68%		15-110%

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Report of Analysis

Page 3 of 3

Client Sample ID:	SSSC-C(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-3A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	82.0
Method:	SW846 8270D SW846 3550C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	75%		20-123%
4165-60-0	Nitrobenzene-d5	80%		10-110%
321-60-8	2-Fluorobiphenyl	76%		17-110%
1718-51-0	Terphenyl-d14	74%		30-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.94	400	ug/kg	J
	system artifact	2.19	180	ug/kg	J
	system artifact	2.41	1200	ug/kg	J
	system artifact	3.28	160	ug/kg	J
	system artifact	3.43	340	ug/kg	J
	system artifact	3.49	170	ug/kg	J
	system artifact	3.54	280	ug/kg	J
	system artifact/aldol-condensation	3.62	4800	ug/kg	J
	system artifact	3.72	190	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	
	Total Alkanes		0	ug/kg	

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-C(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-3A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	82.0
Method:	SW846 8081B SW846 3546		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G76977.D	1	07/10/13	VDT	07/10/13	OP67347	G3G2644
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.80	0.37	ug/kg	
319-84-6	alpha-BHC	ND	0.80	0.24	ug/kg	
319-85-7	beta-BHC	ND	0.80	0.50	ug/kg	
319-86-8	delta-BHC	ND	0.80	0.40	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.80	0.39	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.80	0.30	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.80	0.55	ug/kg	
60-57-1	Dieldrin	ND	0.80	0.31	ug/kg	
72-54-8	4,4' -DDD	ND	0.80	0.44	ug/kg	
72-55-9	4,4' -DDE	ND	0.80	0.32	ug/kg	
50-29-3	4,4' -DDT	ND	0.80	0.40	ug/kg	
72-20-8	Endrin	ND	0.80	0.26	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.80	0.34	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.80	0.42	ug/kg	
959-98-8	Endosulfan-I	ND	0.80	0.30	ug/kg	
33213-65-9	Endosulfan-II	ND	0.80	0.48	ug/kg	
76-44-8	Heptachlor	ND	0.80	0.39	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.80	0.30	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.79	ug/kg	
53494-70-5	Endrin ketone	ND	0.80	0.33	ug/kg	
8001-35-2	Toxaphene	ND	20	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	73%		11-151%
877-09-8	Tetrachloro-m-xylene	69%		11-151%
2051-24-3	Decachlorobiphenyl	72%		11-170%
2051-24-3	Decachlorobiphenyl	76%		11-170%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-C(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-3A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	82.0
Method:	SW846 8082A SW846 3546		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX136243.D	1	07/10/13	JR	07/10/13	OP67346	GXX4716
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	40	10	ug/kg	
11104-28-2	Aroclor 1221	ND	40	24	ug/kg	
11141-16-5	Aroclor 1232	ND	40	20	ug/kg	
53469-21-9	Aroclor 1242	ND	40	13	ug/kg	
12672-29-6	Aroclor 1248	ND	40	12	ug/kg	
11097-69-1	Aroclor 1254	ND	40	19	ug/kg	
11096-82-5	Aroclor 1260	ND	40	13	ug/kg	
11100-14-4	Aroclor 1268	ND	40	12	ug/kg	
37324-23-5	Aroclor 1262	ND	40	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	83%		17-146%
877-09-8	Tetrachloro-m-xylene	84%		17-146%
2051-24-3	Decachlorobiphenyl	78%		12-155%
2051-24-3	Decachlorobiphenyl	76%		12-155%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-C(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-3A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	82.0
Method:	NJDEP EPH SW846 3546		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Y9406.D	1	07/12/13	GAD	07/10/13	OP67349	G6Y376
Run #2							

	Initial Weight	Final Volume
Run #1	16.8 g	2.0 ml
Run #2		

NJDEP EPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C10-C12 Aromatics	ND	5.8	0.17	mg/kg	
	C12-C16 Aromatics	ND	5.8	0.25	mg/kg	
	C16-C21 Aromatics	ND	5.8	0.36	mg/kg	
	C21-C36 Aromatics	ND	5.8	0.58	mg/kg	
	Total Aromatics	ND	5.8	0.17	mg/kg	
	C9-C12 Aliphatics	ND	5.8	0.16	mg/kg	
	C12-C16 Aliphatics	ND	5.8	0.25	mg/kg	
	C16-C21 Aliphatics	ND	5.8	0.22	mg/kg	
	C21-C40 Aliphatics	ND	5.8	0.64	mg/kg	
	Total Aliphatics	ND	5.8	0.16	mg/kg	
	Total EPH	ND	5.8	0.16	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	66%		40-140%
321-60-8	2-Fluorobiphenyl	84%		40-140%
3386-33-2	1-Chlorooctadecane	92%		40-140%
580-13-2	2-Bromonaphthalene	18% ^a		40-140%

(a) Fraction surrogate broke through to aliphatics, sample ND.

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Report of Analysis

Page 1 of 1

Client Sample ID: SSSC-C(6-6.5)**Lab Sample ID:** JB41459-3A**Matrix:** SO - Soil**Date Sampled:** 07/08/13**Date Received:** 07/08/13**Percent Solids:** 82.0**Project:** Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	10800	62	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Antimony	< 2.5	2.5	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Arsenic	6.3	2.5	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Barium	< 25	25	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Beryllium	0.68	0.25	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Cadmium	< 0.62	0.62	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Calcium	803	620	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Chromium	93.4	1.2	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Cobalt	< 6.2	6.2	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Copper	< 3.1	3.1	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Iron	21500	62	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Lead	5.9	2.5	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Magnesium	1670	620	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Manganese	11.4	1.9	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Mercury	0.044	0.039	mg/kg	1	07/12/13	07/12/13 JW	SW846 7471B ¹	SW846 7471B ⁴
Nickel	< 5.0	5.0	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Potassium	3110	1200	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Selenium	< 2.5	2.5	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Silver	< 0.62	0.62	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Sodium	< 1200	1200	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Thallium	< 1.2	1.2	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Vanadium	69.8	6.2	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Zinc	17.5	2.5	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: MA31640

(2) Instrument QC Batch: MA31698

(3) Prep QC Batch: MP73097

(4) Prep QC Batch: MP73144

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SSSC-C(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-3A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	82.0
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.16	0.16	mg/kg	1	07/10/13 09:38	CV	SW846 9012 M/LACHAT

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	SSSC-E(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-4A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	85.5
Method:	SW846 8260B SW846 5035		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C100818.D	1	07/13/13	PS	07/08/13 17:00	n/a	V3C4489
Run #2							

	Initial Weight
Run #1	5.7 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	1.7	ug/kg	
71-43-2	Benzene	ND	1.0	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	5.1	0.27	ug/kg	
75-27-4	Bromodichloromethane	ND	5.1	0.11	ug/kg	
75-25-2	Bromoform	ND	5.1	0.15	ug/kg	
74-83-9	Bromomethane	ND	5.1	0.28	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/kg	
75-15-0	Carbon disulfide	ND	5.1	0.12	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.1	0.14	ug/kg	
108-90-7	Chlorobenzene	ND	5.1	0.11	ug/kg	
75-00-3	Chloroethane	ND	5.1	0.23	ug/kg	
67-66-3	Chloroform	ND	5.1	0.085	ug/kg	
74-87-3	Chloromethane	ND	5.1	0.19	ug/kg	
110-82-7	Cyclohexane	ND	5.1	0.13	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.91	ug/kg	
124-48-1	Dibromochloromethane	ND	5.1	0.17	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.1	0.19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.1	0.19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.1	0.18	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.1	0.23	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.1	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.14	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.1	0.26	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.1	0.19	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.1	0.24	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.1	0.16	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.1	0.14	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.1	0.16	ug/kg	
123-91-1	1,4-Dioxane	ND	130	61	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/kg	
76-13-1	Freon 113	ND	5.1	0.44	ug/kg	

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Report of Analysis

Page 2 of 2

Client Sample ID:	SSSC-E(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-4A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	85.5
Method:	SW846 8260B SW846 5035		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.1	0.64	ug/kg	
98-82-8	Isopropylbenzene	ND	5.1	0.076	ug/kg	
79-20-9	Methyl Acetate	ND	5.1	2.7	ug/kg	
108-87-2	Methylcyclohexane	ND	5.1	0.17	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.1	0.77	ug/kg	
75-09-2	Methylene chloride	4.7	5.1	1.3	ug/kg	JB
100-42-5	Styrene	ND	5.1	0.094	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.1	0.14	ug/kg	
127-18-4	Tetrachloroethene	ND	5.1	0.18	ug/kg	
108-88-3	Toluene	ND	1.0	0.11	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.1	0.17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.1	0.14	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.1	0.11	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.1	0.18	ug/kg	
79-01-6	Trichloroethene	ND	5.1	0.18	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.1	0.31	ug/kg	
75-01-4	Vinyl chloride	ND	5.1	0.15	ug/kg	
	m,p-Xylene	ND	1.0	0.18	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.14	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		65-131%
17060-07-0	1,2-Dichloroethane-D4	95%		70-121%
2037-26-5	Toluene-D8	95%		80-128%
460-00-4	4-Bromofluorobenzene	92%		67-131%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	
	Total Alkanes		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

Report of Analysis

Page 1 of 3

Client Sample ID:	SSSC-E(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-4A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	85.5
Method:	SW846 8270D SW846 3550C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M95522.D	1	07/12/13	AD	07/10/13	OP67344	EM3884
Run #2							

Run #	Initial Weight	Final Volume
Run #1	30.7 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	190	38	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	190	38	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	190	61	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	190	64	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	760	46	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	760	46	ug/kg	
95-48-7	2-Methylphenol	ND	76	43	ug/kg	
	3&4-Methylphenol	ND	76	48	ug/kg	
88-75-5	2-Nitrophenol	ND	190	40	ug/kg	
100-02-7	4-Nitrophenol	ND	380	64	ug/kg	
87-86-5	Pentachlorophenol	ND	380	65	ug/kg	
108-95-2	Phenol	ND	76	40	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	190	39	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	190	44	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	190	36	ug/kg	
83-32-9	Acenaphthene	ND	38	11	ug/kg	
208-96-8	Acenaphthylene	ND	38	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.7	ug/kg	
120-12-7	Anthracene	17.1	38	13	ug/kg	J
1912-24-9	Atrazine	ND	190	7.5	ug/kg	
56-55-3	Benzo(a)anthracene	54.6	38	12	ug/kg	
50-32-8	Benzo(a)pyrene	60.4	38	12	ug/kg	
205-99-2	Benzo(b)fluoranthene	71.4	38	13	ug/kg	
191-24-2	Benzo(g,h,i)perylene	33.7	38	14	ug/kg	J
207-08-9	Benzo(k)fluoranthene	26.0	38	14	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	76	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	76	22	ug/kg	
92-52-4	1,1'-Biphenyl	ND	76	4.4	ug/kg	
100-52-7	Benzaldehyde	ND	190	8.8	ug/kg	
91-58-7	2-Chloronaphthalene	ND	76	12	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	ND	76	18	ug/kg	

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RL = Reporting Limit

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Report of Analysis

Page 2 of 3

Client Sample ID:	SSSC-E(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-4A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	85.5
Method:	SW846 8270D SW846 3550C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	76	12	ug/kg	
218-01-9	Chrysene	54.6	38	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	76	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	76	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	76	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	76	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	76	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	76	15	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	190	9.7	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	38	13	ug/kg	
132-64-9	Dibenzofuran	ND	76	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	76	8.5	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	76	19	ug/kg	
84-66-2	Diethyl phthalate	ND	76	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	76	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	76	34	ug/kg	
206-44-0	Fluoranthene	111	38	17	ug/kg	
86-73-7	Fluorene	ND	38	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	76	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	38	11	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	380	39	ug/kg	
67-72-1	Hexachloroethane	ND	190	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	36.7	38	13	ug/kg	J
78-59-1	Isophorone	ND	76	10	ug/kg	
91-57-6	2-Methylnaphthalene	ND	76	21	ug/kg	
88-74-4	2-Nitroaniline	ND	190	17	ug/kg	
99-09-2	3-Nitroaniline	ND	190	15	ug/kg	
100-01-6	4-Nitroaniline	ND	190	15	ug/kg	
91-20-3	Naphthalene	ND	38	10	ug/kg	
98-95-3	Nitrobenzene	ND	76	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	76	9.3	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	23	ug/kg	
85-01-8	Phenanthrene	68.1	38	17	ug/kg	
129-00-0	Pyrene	103	38	15	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	190	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		13-110%
4165-62-2	Phenol-d5	66%		15-110%

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Report of Analysis

Client Sample ID:	SSSC-E(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-4A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	85.5
Method:	SW846 8270D SW846 3550C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	74%		20-123%
4165-60-0	Nitrobenzene-d5	79%		10-110%
321-60-8	2-Fluorobiphenyl	78%		17-110%
1718-51-0	Terphenyl-d14	75%		30-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.94	490	ug/kg	J
	system artifact	2.19	320	ug/kg	J
	system artifact	3.28	190	ug/kg	J
	system artifact	3.43	320	ug/kg	J
	system artifact	3.49	170	ug/kg	J
	system artifact	3.54	260	ug/kg	J
	system artifact/aldol-condensation	3.62	4300	ug/kg	J
	system artifact	3.72	180	ug/kg	J
	system artifact	4.27	160	ug/kg	J
	system artifact	4.36	450	ug/kg	J
	system artifact	4.63	640	ug/kg	J
	system artifact	5.05	260	ug/kg	J
	unknown	15.50	210	ug/kg	JB
	Total TIC, Semi-Volatile		0	ug/kg	
	Total Alkanes		0	ug/kg	

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-E(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-4A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	85.5
Method:	SW846 8081B SW846 3546		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G76978.D	1	07/10/13	VDT	07/10/13	OP67347	G3G2644
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.77	0.35	ug/kg	
319-84-6	alpha-BHC	ND	0.77	0.23	ug/kg	
319-85-7	beta-BHC	ND	0.77	0.48	ug/kg	
319-86-8	delta-BHC	ND	0.77	0.38	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.77	0.38	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.77	0.28	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.77	0.53	ug/kg	
60-57-1	Dieldrin	ND	0.77	0.30	ug/kg	
72-54-8	4,4' -DDD	ND	0.77	0.42	ug/kg	
72-55-9	4,4' -DDE	2.4	0.77	0.31	ug/kg	
50-29-3	4,4' -DDT	5.3	0.77	0.38	ug/kg	
72-20-8	Endrin	ND	0.77	0.25	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.77	0.33	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.77	0.40	ug/kg	
959-98-8	Endosulfan-I	ND	0.77	0.29	ug/kg	
33213-65-9	Endosulfan-II	ND	0.77	0.46	ug/kg	
76-44-8	Heptachlor	ND	0.77	0.37	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.77	0.29	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.75	ug/kg	
53494-70-5	Endrin ketone	ND	0.77	0.31	ug/kg	
8001-35-2	Toxaphene	ND	19	9.7	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	60%		11-151%
877-09-8	Tetrachloro-m-xylene	58%		11-151%
2051-24-3	Decachlorobiphenyl	55%		11-170%
2051-24-3	Decachlorobiphenyl	65%		11-170%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-E(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-4A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	85.5
Method:	SW846 8082A SW846 3546		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX136244.D	1	07/10/13	JR	07/10/13	OP67346	GXX4716
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	38	10	ug/kg	
11104-28-2	Aroclor 1221	ND	38	23	ug/kg	
11141-16-5	Aroclor 1232	ND	38	19	ug/kg	
53469-21-9	Aroclor 1242	ND	38	12	ug/kg	
12672-29-6	Aroclor 1248	ND	38	12	ug/kg	
11097-69-1	Aroclor 1254	ND	38	18	ug/kg	
11096-82-5	Aroclor 1260	ND	38	13	ug/kg	
11100-14-4	Aroclor 1268	ND	38	11	ug/kg	
37324-23-5	Aroclor 1262	ND	38	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	71%		17-146%
877-09-8	Tetrachloro-m-xylene	71%		17-146%
2051-24-3	Decachlorobiphenyl	69%		12-155%
2051-24-3	Decachlorobiphenyl	67%		12-155%

ND = Not detected MDL - Method Detection Limit

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-E(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-4A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	85.5
Method:	NJDEP EPH SW846 3546		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Y9407.D	1	07/12/13	GAD	07/10/13	OP67349	G6Y376
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 g	2.0 ml
Run #2		

NJDEP EPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C10-C12 Aromatics	ND	6.1	0.18	mg/kg	
	C12-C16 Aromatics	ND	6.1	0.26	mg/kg	
	C16-C21 Aromatics	ND	6.1	0.38	mg/kg	
	C21-C36 Aromatics	ND	6.1	0.61	mg/kg	
	Total Aromatics	ND	6.1	0.18	mg/kg	
	C9-C12 Aliphatics	ND	6.1	0.17	mg/kg	
	C12-C16 Aliphatics	ND	6.1	0.26	mg/kg	
	C16-C21 Aliphatics	ND	6.1	0.23	mg/kg	
	C21-C40 Aliphatics	ND	6.1	0.67	mg/kg	
	Total Aliphatics	ND	6.1	0.17	mg/kg	
	Total EPH	ND	6.1	0.17	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	84%		40-140%
321-60-8	2-Fluorobiphenyl	82%		40-140%
3386-33-2	1-Chlorooctadecane	100%		40-140%
580-13-2	2-Bromonaphthalene	19% ^a		40-140%

(a) Fraction surrogate broke through to aliphatics, sample ND.

ND = Not detected MDL - Method Detection Limit

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N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: SSSC-E(6-6.5)	Date Sampled: 07/08/13
Lab Sample ID: JB41459-4A	Date Received: 07/08/13
Matrix: SO - Soil	Percent Solids: 85.5
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	4410	57	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Antimony	< 2.3	2.3	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Arsenic	3.5	2.3	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Barium	< 23	23	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Beryllium	0.44	0.23	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Cadmium	< 0.57	0.57	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Calcium	< 570	570	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Chromium	41.2	1.1	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Cobalt	< 5.7	5.7	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Copper	< 2.9	2.9	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Iron	12300	57	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Lead	5.4	2.3	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Magnesium	922	570	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Manganese	19.0	1.7	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Mercury	< 0.036	0.036	mg/kg	1	07/12/13	07/12/13 JW	SW846 7471B ¹	SW846 7471B ⁴
Nickel	< 4.6	4.6	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Potassium	1820	1100	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Selenium	< 2.3	2.3	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Silver	< 0.57	0.57	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Sodium	< 1100	1100	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Thallium	< 1.1	1.1	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Vanadium	31.1	5.7	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Zinc	22.1	2.3	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: MA31640

(2) Instrument QC Batch: MA31698

(3) Prep QC Batch: MP73097

(4) Prep QC Batch: MP73144

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SSSC-E(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-4A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	85.5
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.23	0.23	mg/kg	1	07/10/13 09:39	CV	SW846 9012 M/LACHAT

RL = Reporting Limit

Report of Analysis

Page 1 of 2

Client Sample ID:	SSSC-A(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-5A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	89.6
Method:	SW846 8260B SW846 5035		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C100819.D	1	07/13/13	PS	07/08/13 17:00	n/a	V3C4489
Run #2							

	Initial Weight
Run #1	5.4 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	1.7	ug/kg	
71-43-2	Benzene	ND	1.0	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	5.2	0.27	ug/kg	
75-27-4	Bromodichloromethane	ND	5.2	0.11	ug/kg	
75-25-2	Bromoform	ND	5.2	0.16	ug/kg	
74-83-9	Bromomethane	ND	5.2	0.28	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.5	ug/kg	
75-15-0	Carbon disulfide	ND	5.2	0.12	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.2	0.14	ug/kg	
108-90-7	Chlorobenzene	ND	5.2	0.11	ug/kg	
75-00-3	Chloroethane	ND	5.2	0.23	ug/kg	
67-66-3	Chloroform	ND	5.2	0.085	ug/kg	
74-87-3	Chloromethane	ND	5.2	0.19	ug/kg	
110-82-7	Cyclohexane	ND	5.2	0.13	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.92	ug/kg	
124-48-1	Dibromochloromethane	ND	5.2	0.17	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.2	0.20	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.2	0.19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.2	0.18	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.2	0.24	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.2	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.14	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.2	0.27	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.2	0.19	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.2	0.25	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.2	0.16	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.2	0.14	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.2	0.16	ug/kg	
123-91-1	1,4-Dioxane	ND	130	61	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.27	ug/kg	
76-13-1	Freon 113	1.3	5.2	0.44	ug/kg	J

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Report of Analysis

Page 2 of 2

Client Sample ID:	SSSC-A(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-5A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	89.6
Method:	SW846 8260B SW846 5035		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.2	0.64	ug/kg	
98-82-8	Isopropylbenzene	ND	5.2	0.077	ug/kg	
79-20-9	Methyl Acetate	ND	5.2	2.7	ug/kg	
108-87-2	Methylcyclohexane	ND	5.2	0.17	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.24	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.2	0.78	ug/kg	
75-09-2	Methylene chloride	4.1	5.2	1.3	ug/kg	JB
100-42-5	Styrene	ND	5.2	0.095	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.2	0.14	ug/kg	
127-18-4	Tetrachloroethene	ND	5.2	0.18	ug/kg	
108-88-3	Toluene	ND	1.0	0.11	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.2	0.17	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.2	0.14	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.2	0.11	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.2	0.18	ug/kg	
79-01-6	Trichloroethene	ND	5.2	0.18	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.2	0.31	ug/kg	
75-01-4	Vinyl chloride	ND	5.2	0.15	ug/kg	
	m,p-Xylene	ND	1.0	0.18	ug/kg	
95-47-6	o-Xylene	ND	1.0	0.14	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		65-131%
17060-07-0	1,2-Dichloroethane-D4	98%		70-121%
2037-26-5	Toluene-D8	93%		80-128%
460-00-4	4-Bromofluorobenzene	92%		67-131%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	
	Total Alkanes		0	ug/kg	

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Report of Analysis

Page 1 of 3

Client Sample ID:	SSSC-A(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-5A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	89.6
Method:	SW846 8270D SW846 3550C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M95523.D	1	07/12/13	AD	07/10/13	OP67344	EM3884
Run #2							

Run #	Initial Weight	Final Volume
Run #1	32.5 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	170	35	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	34	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	55	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	58	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	690	42	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	690	42	ug/kg	
95-48-7	2-Methylphenol	ND	69	39	ug/kg	
	3&4-Methylphenol	ND	69	44	ug/kg	
88-75-5	2-Nitrophenol	ND	170	36	ug/kg	
100-02-7	4-Nitrophenol	ND	340	58	ug/kg	
87-86-5	Pentachlorophenol	ND	340	59	ug/kg	
108-95-2	Phenol	ND	69	36	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	35	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	40	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	32	ug/kg	
83-32-9	Acenaphthene	ND	34	10	ug/kg	
208-96-8	Acenaphthylene	ND	34	11	ug/kg	
98-86-2	Acetophenone	ND	170	6.0	ug/kg	
120-12-7	Anthracene	ND	34	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.8	ug/kg	
56-55-3	Benzo(a)anthracene	19.8	34	11	ug/kg	J
50-32-8	Benzo(a)pyrene	19.6	34	10	ug/kg	J
205-99-2	Benzo(b)fluoranthene	26.9	34	11	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	17.5	34	13	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	34	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	69	12	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	

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Report of Analysis

Page 2 of 3

Client Sample ID:	SSSC-A(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-5A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	89.6
Method:	SW846 8270D SW846 3550C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	69	11	ug/kg	
218-01-9	Chrysene	20.4	34	12	ug/kg	J
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	8.7	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	34	12	ug/kg	
132-64-9	Dibenzofuran	ND	69	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	69	7.6	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	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	69	30	ug/kg	
206-44-0	Fluoranthene	30.4	34	15	ug/kg	J
86-73-7	Fluorene	ND	34	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	69	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	34	9.5	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	340	35	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.5	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	16.0	34	12	ug/kg	J
78-59-1	Isophorone	ND	69	9.2	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	34	9.4	ug/kg	
98-95-3	Nitrobenzene	ND	69	9.9	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	34	16	ug/kg	
129-00-0	Pyrene	30.5	34	13	ug/kg	J
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	56%		13-110%
4165-62-2	Phenol-d5	58%		15-110%

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Report of Analysis

Page 3 of 3

Client Sample ID: SSSC-A(6-6.5)	Date Sampled: 07/08/13
Lab Sample ID: JB41459-5A	Date Received: 07/08/13
Matrix: SO - Soil	Percent Solids: 89.6
Method: SW846 8270D SW846 3550C	
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ	

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	61%		20-123%
4165-60-0	Nitrobenzene-d5	69%		10-110%
321-60-8	2-Fluorobiphenyl	66%		17-110%
1718-51-0	Terphenyl-d14	59%		30-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.94	360	ug/kg	J
	system artifact	2.15	170	ug/kg	J
	system artifact	2.19	150	ug/kg	J
	system artifact	3.28	150	ug/kg	J
	system artifact	3.42	230	ug/kg	J
	system artifact	3.47	240	ug/kg	J
	system artifact	3.54	260	ug/kg	J
	system artifact/aldol-condensation	3.61	2500	ug/kg	J
	system artifact	3.71	180	ug/kg	J
	system artifact	4.24	230	ug/kg	J
	system artifact	4.27	510	ug/kg	J
	system artifact	4.36	800	ug/kg	J
	system artifact	4.63	660	ug/kg	J
	system artifact	4.96	220	ug/kg	J
	system artifact	5.05	920	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	
	Total Alkanes		0	ug/kg	

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-A(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-5A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	89.6
Method:	SW846 8081B SW846 3546		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G76979.D	1	07/10/13	VDT	07/10/13	OP67347	G3G2644
Run #2							

	Initial Weight	Final Volume
Run #1	16.5 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.68	0.31	ug/kg	
319-84-6	alpha-BHC	ND	0.68	0.20	ug/kg	
319-85-7	beta-BHC	ND	0.68	0.42	ug/kg	
319-86-8	delta-BHC	ND	0.68	0.33	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.68	0.33	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.68	0.25	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.68	0.47	ug/kg	
60-57-1	Dieldrin	ND	0.68	0.26	ug/kg	
72-54-8	4,4' -DDD	ND	0.68	0.37	ug/kg	
72-55-9	4,4' -DDE	2.3	0.68	0.27	ug/kg	
50-29-3	4,4' -DDT	2.8	0.68	0.33	ug/kg	
72-20-8	Endrin	ND	0.68	0.22	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.68	0.29	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.68	0.35	ug/kg	
959-98-8	Endosulfan-I	ND	0.68	0.26	ug/kg	
33213-65-9	Endosulfan-II	ND	0.68	0.41	ug/kg	
76-44-8	Heptachlor	ND	0.68	0.33	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.68	0.25	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.66	ug/kg	
53494-70-5	Endrin ketone	ND	0.68	0.28	ug/kg	
8001-35-2	Toxaphene	ND	17	8.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	71%		11-151%
877-09-8	Tetrachloro-m-xylene	66%		11-151%
2051-24-3	Decachlorobiphenyl	64%		11-170%
2051-24-3	Decachlorobiphenyl	74%		11-170%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-A(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-5A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	89.6
Method:	SW846 8082A SW846 3546		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX136246.D	1	07/10/13	JR	07/10/13	OP67346	GXX4716
Run #2							

	Initial Weight	Final Volume
Run #1	16.5 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	34	8.8	ug/kg	
11104-28-2	Aroclor 1221	ND	34	20	ug/kg	
11141-16-5	Aroclor 1232	ND	34	17	ug/kg	
53469-21-9	Aroclor 1242	ND	34	11	ug/kg	
12672-29-6	Aroclor 1248	ND	34	10	ug/kg	
11097-69-1	Aroclor 1254	ND	34	16	ug/kg	
11096-82-5	Aroclor 1260	ND	34	11	ug/kg	
11100-14-4	Aroclor 1268	ND	34	9.9	ug/kg	
37324-23-5	Aroclor 1262	ND	34	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	73%		17-146%
877-09-8	Tetrachloro-m-xylene	70%		17-146%
2051-24-3	Decachlorobiphenyl	65%		12-155%
2051-24-3	Decachlorobiphenyl	77%		12-155%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-A(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-5A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	89.6
Method:	NJDEP EPH SW846 3546		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Y9408.D	1	07/12/13	GAD	07/10/13	OP67349	G6Y376
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	2.0 ml
Run #2		

NJDEP EPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C10-C12 Aromatics	ND	5.8	0.18	mg/kg	
	C12-C16 Aromatics	ND	5.8	0.25	mg/kg	
	C16-C21 Aromatics	ND	5.8	0.36	mg/kg	
	C21-C36 Aromatics	ND	5.8	0.58	mg/kg	
	Total Aromatics	ND	5.8	0.18	mg/kg	
	C9-C12 Aliphatics	ND	5.8	0.16	mg/kg	
	C12-C16 Aliphatics	ND	5.8	0.25	mg/kg	
	C16-C21 Aliphatics	ND	5.8	0.22	mg/kg	
	C21-C40 Aliphatics	ND	5.8	0.64	mg/kg	
	Total Aliphatics	ND	5.8	0.16	mg/kg	
	Total EPH	ND	5.8	0.16	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	57%		40-140%
321-60-8	2-Fluorobiphenyl	91%		40-140%
3386-33-2	1-Chlorooctadecane	65%		40-140%
580-13-2	2-Bromonaphthalene	28% ^a		40-140%

(a) Fraction surrogate broke through to aliphatics, sample ND.

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Report of Analysis

Page 1 of 1

Client Sample ID: SSSC-A(6-6.5)

Lab Sample ID: JB41459-5A

Matrix: SO - Soil

Date Sampled: 07/08/13

Date Received: 07/08/13

Percent Solids: 89.6

Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	7740	58	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Antimony	< 2.3	2.3	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Arsenic	5.8	2.3	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Barium	< 23	23	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Beryllium	0.63	0.23	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Cadmium	< 0.58	0.58	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Calcium	795	580	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Chromium	68.8	1.2	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Cobalt	< 5.8	5.8	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Copper	3.1	2.9	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Iron	18500	58	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Lead	13.4	2.3	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Magnesium	1480	580	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Manganese	25.5	1.7	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Mercury	0.078	0.035	mg/kg	1	07/12/13	07/12/13 JW	SW846 7471B ¹	SW846 7471B ⁴
Nickel	< 4.7	4.7	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Potassium	2830	1200	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Selenium	< 2.3	2.3	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Silver	< 0.58	0.58	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Sodium	< 1200	1200	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Thallium	< 1.2	1.2	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Vanadium	45.7	5.8	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Zinc	90.4	2.3	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: MA31640

(2) Instrument QC Batch: MA31698

(3) Prep QC Batch: MP73097

(4) Prep QC Batch: MP73144

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SSSC-A(6-6.5)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-5A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	89.6
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.24	0.24	mg/kg	1	07/10/13 09:40	CV	SW846 9012 M/LACHAT

RL = Reporting Limit

4.5
4

Report of Analysis

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Client Sample ID:	SSEH-A(7.5-8.0)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-6A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	SW846 8260B SW846 5035		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C100820.D	1	07/13/13	PS	07/08/13 17:00	n/a	V3C4489
Run #2							

	Initial Weight
Run #1	5.5 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	1.8	ug/kg	
71-43-2	Benzene	ND	1.1	0.13	ug/kg	
74-97-5	Bromochloromethane	ND	5.4	0.29	ug/kg	
75-27-4	Bromodichloromethane	ND	5.4	0.11	ug/kg	
75-25-2	Bromoform	ND	5.4	0.16	ug/kg	
74-83-9	Bromomethane	ND	5.4	0.30	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.6	ug/kg	
75-15-0	Carbon disulfide	ND	5.4	0.13	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.4	0.14	ug/kg	
108-90-7	Chlorobenzene	ND	5.4	0.12	ug/kg	
75-00-3	Chloroethane	ND	5.4	0.25	ug/kg	
67-66-3	Chloroform	ND	5.4	0.090	ug/kg	
74-87-3	Chloromethane	ND	5.4	0.20	ug/kg	
110-82-7	Cyclohexane	ND	5.4	0.13	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	11	0.97	ug/kg	
124-48-1	Dibromochloromethane	ND	5.4	0.18	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.14	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.4	0.21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.4	0.20	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.4	0.19	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.4	0.25	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.4	0.15	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.15	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.4	0.28	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.4	0.20	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.4	0.26	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.4	0.17	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.4	0.15	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.4	0.17	ug/kg	
123-91-1	1,4-Dioxane	ND	140	65	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.29	ug/kg	
76-13-1	Freon 113	0.57	5.4	0.47	ug/kg	J

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RL = Reporting Limit

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E = Indicates value exceeds calibration range

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	SSEH-A(7.5-8.0)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-6A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	SW846 8260B SW846 5035		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.4	0.68	ug/kg	
98-82-8	Isopropylbenzene	ND	5.4	0.081	ug/kg	
79-20-9	Methyl Acetate	ND	5.4	2.8	ug/kg	
108-87-2	Methylcyclohexane	ND	5.4	0.18	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.26	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.4	0.82	ug/kg	
75-09-2	Methylene chloride	7.1	5.4	1.4	ug/kg	B
100-42-5	Styrene	ND	5.4	0.10	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.4	0.14	ug/kg	
127-18-4	Tetrachloroethene	ND	5.4	0.19	ug/kg	
108-88-3	Toluene	0.41	1.1	0.11	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.4	0.18	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.4	0.15	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.4	0.12	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.4	0.19	ug/kg	
79-01-6	Trichloroethene	ND	5.4	0.19	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.4	0.32	ug/kg	
75-01-4	Vinyl chloride	ND	5.4	0.16	ug/kg	
	m,p-Xylene	ND	1.1	0.19	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.15	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.15	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		65-131%
17060-07-0	1,2-Dichloroethane-D4	95%		70-121%
2037-26-5	Toluene-D8	94%		80-128%
460-00-4	4-Bromofluorobenzene	92%		67-131%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	
	Total Alkanes		0	ug/kg	

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Report of Analysis

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Client Sample ID:	SSEH-A(7.5-8.0)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-6A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	SW846 8270D SW846 3550C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	M95524.D	1	07/12/13	AD	07/10/13	OP67344	EM3884
Run #2							

	Initial Weight	Final Volume
Run #1	32.9 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	180	37	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	36	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	58	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	61	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	730	44	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	730	44	ug/kg	
95-48-7	2-Methylphenol	ND	73	41	ug/kg	
	3&4-Methylphenol	ND	73	46	ug/kg	
88-75-5	2-Nitrophenol	ND	180	38	ug/kg	
100-02-7	4-Nitrophenol	ND	360	61	ug/kg	
87-86-5	Pentachlorophenol	ND	360	62	ug/kg	
108-95-2	Phenol	ND	73	38	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	37	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	42	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	34	ug/kg	
83-32-9	Acenaphthene	ND	36	11	ug/kg	
208-96-8	Acenaphthylene	ND	36	12	ug/kg	
98-86-2	Acetophenone	ND	180	6.4	ug/kg	
120-12-7	Anthracene	ND	36	13	ug/kg	
1912-24-9	Atrazine	ND	180	7.2	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	14	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	36	14	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	73	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	73	21	ug/kg	
92-52-4	1,1'-Biphenyl	ND	73	4.2	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.4	ug/kg	
91-58-7	2-Chloronaphthalene	ND	73	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	12	ug/kg	
86-74-8	Carbazole	ND	73	17	ug/kg	

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Report of Analysis

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Client Sample ID:	SSEH-A(7.5-8.0)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-6A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	SW846 8270D SW846 3550C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	73	11	ug/kg	
218-01-9	Chrysene	ND	36	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	73	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	73	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	73	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	73	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	73	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	73	14	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	180	9.2	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	36	12	ug/kg	
132-64-9	Dibenzofuran	ND	73	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	73	8.1	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	73	18	ug/kg	
84-66-2	Diethyl phthalate	ND	73	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	73	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	73	32	ug/kg	
206-44-0	Fluoranthene	ND	36	16	ug/kg	
86-73-7	Fluorene	ND	36	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	73	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	37	ug/kg	
67-72-1	Hexachloroethane	ND	180	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36	13	ug/kg	
78-59-1	Isophorone	ND	73	9.8	ug/kg	
91-57-6	2-Methylnaphthalene	ND	73	20	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	36	9.9	ug/kg	
98-95-3	Nitrobenzene	ND	73	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	73	8.9	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	22	ug/kg	
85-01-8	Phenanthrene	ND	36	17	ug/kg	
129-00-0	Pyrene	ND	36	14	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	180	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	59%		13-110%
4165-62-2	Phenol-d5	63%		15-110%

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Report of Analysis

Page 3 of 3

Client Sample ID:	SSEH-A(7.5-8.0)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-6A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	SW846 8270D SW846 3550C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	69%		20-123%
4165-60-0	Nitrobenzene-d5	78%		10-110%
321-60-8	2-Fluorobiphenyl	72%		17-110%
1718-51-0	Terphenyl-d14	72%		30-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.94	330	ug/kg	J
	system artifact	2.41	1400	ug/kg	J
	system artifact	2.46	150	ug/kg	J
	system artifact	3.28	150	ug/kg	J
	system artifact	3.43	230	ug/kg	J
	system artifact	3.49	170	ug/kg	J
	system artifact	3.54	270	ug/kg	J
	system artifact/aldol-condensation	3.61	2900	ug/kg	J
	system artifact	3.72	180	ug/kg	J
	Total TIC, Semi-Volatile		0	ug/kg	
	Total Alkanes		0	ug/kg	

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSEH-A(7.5-8.0)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-6A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	SW846 8081B SW846 3546		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G76980.D	1	07/10/13	VDT	07/10/13	OP67347	G3G2644
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.79	0.36	ug/kg	
319-84-6	alpha-BHC	ND	0.79	0.24	ug/kg	
319-85-7	beta-BHC	ND	0.79	0.49	ug/kg	
319-86-8	delta-BHC	ND	0.79	0.39	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.79	0.39	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.79	0.29	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.79	0.54	ug/kg	
60-57-1	Dieldrin	ND	0.79	0.31	ug/kg	
72-54-8	4,4' -DDD	ND	0.79	0.43	ug/kg	
72-55-9	4,4' -DDE	ND	0.79	0.32	ug/kg	
50-29-3	4,4' -DDT	ND	0.79	0.39	ug/kg	
72-20-8	Endrin	ND	0.79	0.25	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.79	0.34	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.79	0.41	ug/kg	
959-98-8	Endosulfan-I	ND	0.79	0.30	ug/kg	
33213-65-9	Endosulfan-II	ND	0.79	0.47	ug/kg	
76-44-8	Heptachlor	ND	0.79	0.38	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.79	0.29	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.77	ug/kg	
53494-70-5	Endrin ketone	ND	0.79	0.32	ug/kg	
8001-35-2	Toxaphene	ND	20	9.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%		11-151%
877-09-8	Tetrachloro-m-xylene	59%		11-151%
2051-24-3	Decachlorobiphenyl	48%		11-170%
2051-24-3	Decachlorobiphenyl	64%		11-170%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSEH-A(7.5-8.0)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-6A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	SW846 8082A SW846 3546		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX136247.D	1	07/10/13	JR	07/10/13	OP67346	GXX4716
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	39	10	ug/kg	
11104-28-2	Aroclor 1221	ND	39	24	ug/kg	
11141-16-5	Aroclor 1232	ND	39	20	ug/kg	
53469-21-9	Aroclor 1242	ND	39	12	ug/kg	
12672-29-6	Aroclor 1248	ND	39	12	ug/kg	
11097-69-1	Aroclor 1254	ND	39	18	ug/kg	
11096-82-5	Aroclor 1260	ND	39	13	ug/kg	
11100-14-4	Aroclor 1268	ND	39	12	ug/kg	
37324-23-5	Aroclor 1262	ND	39	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		17-146%
877-09-8	Tetrachloro-m-xylene	74%		17-146%
2051-24-3	Decachlorobiphenyl	67%		12-155%
2051-24-3	Decachlorobiphenyl	68%		12-155%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSEH-A(7.5-8.0)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-6A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	83.7
Method:	NJDEP EPH SW846 3546		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Y9409.D	1	07/12/13	GAD	07/10/13	OP67349	G6Y376
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	2.0 ml
Run #2		

NJDEP EPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C10-C12 Aromatics	ND	6.1	0.18	mg/kg	
	C12-C16 Aromatics	ND	6.1	0.26	mg/kg	
	C16-C21 Aromatics	ND	6.1	0.38	mg/kg	
	C21-C36 Aromatics	ND	6.1	0.61	mg/kg	
	Total Aromatics	ND	6.1	0.18	mg/kg	
	C9-C12 Aliphatics	ND	6.1	0.17	mg/kg	
	C12-C16 Aliphatics	ND	6.1	0.26	mg/kg	
	C16-C21 Aliphatics	ND	6.1	0.23	mg/kg	
	C21-C40 Aliphatics	ND	6.1	0.67	mg/kg	
	Total Aliphatics	ND	6.1	0.17	mg/kg	
	Total EPH	ND	6.1	0.17	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	81%		40-140%
321-60-8	2-Fluorobiphenyl	93%		40-140%
3386-33-2	1-Chlorooctadecane	102%		40-140%
580-13-2	2-Bromonaphthalene	17% ^a		40-140%

(a) Fraction surrogate broke through to aliphatics, sample ND.

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Report of Analysis

Page 1 of 1

Client Sample ID: SSEH-A(7.5-8.0)	Date Sampled: 07/08/13
Lab Sample ID: JB41459-6A	Date Received: 07/08/13
Matrix: SO - Soil	Percent Solids: 83.7
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ	

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	5960	57	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Antimony	< 2.3	2.3	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Arsenic	7.0	2.3	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Barium	< 23	23	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Beryllium	0.84	0.23	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Cadmium	< 0.57	0.57	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Calcium	< 570	570	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Chromium	82.0	1.1	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Cobalt	< 5.7	5.7	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Copper	< 2.9	2.9	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Iron	18900	57	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Lead	3.0	2.3	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Magnesium	1910	570	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Manganese	18.3	1.7	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Mercury	< 0.039	0.039	mg/kg	1	07/12/13	07/12/13 JW	SW846 7471B ¹	SW846 7471B ⁴
Nickel	< 4.6	4.6	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Potassium	4830	1100	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Selenium	< 2.3	2.3	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Silver	< 0.57	0.57	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Sodium	< 1100	1100	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Thallium	< 1.1	1.1	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Vanadium	44.5	5.7	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³
Zinc	19.3	2.3	mg/kg	1	07/09/13	07/20/13 JY	SW846 6010C ²	SW846 3050B ³

(1) Instrument QC Batch: MA31640

(2) Instrument QC Batch: MA31698

(3) Prep QC Batch: MP73097

(4) Prep QC Batch: MP73144

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SSEH-A(7.5-8.0)	Date Sampled:	07/08/13
Lab Sample ID:	JB41459-6A	Date Received:	07/08/13
Matrix:	SO - Soil	Percent Solids:	83.7
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.26	0.26	mg/kg	1	07/10/13 09:41	CV	SW846 9012 M/LACHAT

RL = Reporting Limit

4.6
4

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #	Accutest Quote #	Accutest Job #	Matrix Codes
		JB41459	DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment LIQ - Other Liquid AIR - Air SOL - Other Solid WIP - Wipes FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank
Client / Reporting Information		Project Information	
Company Name: U.S. Army Fort Monmouth Street Address: P.O. Box 148 City: Oceanport NJ Zip: 07757 Project Contact: Robert Yurko E-mail: ryurko@usarmy.com Phone: 732-380-7412 Sampler(s) Name(s): Robert Yurko Phone: 732-380-7412		Project Name: CWATP Street: Laboratory Road City: Tinton Falls NJ State: NJ Billing Information (if different from Report to): Company Name: COS, LLC Street Address: P.O. Box 148 City: Oceanport NJ State: NJ Zip: 07757 Client Purchase Order #: DK6/2612-646 Project Manager: Wanda Green Attention: Helene Seichnowitz	
Requested Analysis (see TEST CODE sheet)		Matrix Codes	
Full TCL/THL+30 Hexavalent Chromium BENZEPH PH Vol. Moisture		LAB USE ONLY 1 SSSC-B(6-6.5) 07/08/13 08:45 RY SO 4 0 2 SSSC-D(6-6.5) 07/08/13 09:10 RY SO 4 0 3 SSSC-C(6-6.5) 07/08/13 09:35 RY SO 4 0 4 SSSC-E(6-6.5) 07/08/13 10:30 RY SO 4 0 5 SSSC-A(6-6.5) 07/08/13 11:00 RY SO 4 0 6 SSSH-A(7.5-8.0) 07/08/13 11:30 RY SO 4 0	
Turnaround Time (Business days)		Data Deliverable Information	
☒ Std. 10 Business Days ☐ 5 Day RUSH ☐ 3 Day EMERGENCY ☐ 2 Day EMERGENCY ☐ 1 Day EMERGENCY ☐ other _____ Emergency & Rush T/A data available VIA Lablink		Approved By (Accutest PM): / Date: _____ ☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☒ FULLT1 (Level 3+4) ☒ NJ Reduced ☐ Commercial "C" ☐ Commercial "A" = Results Only ☐ Commercial "B" = Results + QC Summary ☐ NJ Reduced = Results + QC Summary + Partial Raw data	
Comments / Special Instructions		3 ENCO RES PER SAMPLE 7-8-13	
Sample Custody must be documented below each time samples change possession, including courier delivery.			
Relinquished by Sampler:	Date Time:	Received By:	Date Time:
1 [Signature]	07/08/13 14:10	1 [Signature]	07/08/13 1530
Relinquished by Sampler:	Date Time:	Received By:	Date Time:
3 [Signature]		3 [Signature]	
Relinquished by:	Date Time:	Received By:	Date Time:
5 [Signature]		5 [Signature]	
Custody Seal #	☐ Intact ☐ Not Intact	Preserved where applicable	☐ In Ice ☐ Cooler Temp. 4.8

JB41459A: Chain of Custody

Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB41459 **Client:** _____ **Project:** _____
Date / Time Received: 7/8/2013 **Delivery Method:** _____ **Airbill #s:** _____
Cooler Temps (Initial/Adjusted): #1: (4.8/4.8); 0

Cooler Security	Y	or	N				Y	or	N
1. Custody Seals Present:	☒		☐				☒		☐
2. Custody Seals Intact:	☒		☐				☒		☐
3. COC Present:							☒		☐
4. Smpl Dates/Time OK							☒		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☒		☐
2. Cooler temp verification:			IR Gun
3. Cooler media:			Ice (Bag)
4. No. Coolers:			1

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☒
2. Trip Blank listed on COC:	☐		☐	☒
3. Samples preserved properly:	☒		☐	
4. VOCs headspace free:	☐		☐	☒

Comments

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☒		☐
2. Container labeling complete:	☒		☐
3. Sample container label / COC agree:	☒		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☒		☐
2. All containers accounted for:	☒		☐
3. Condition of sample:			Intact

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☒		☐	
2. Bottles received for unspecified tests	☐		☒	
3. Sufficient volume recvd for analysis:	☒		☐	
4. Compositing instructions clear:	☐		☐	☒
5. Filtering instructions clear:	☐		☐	☒



09/11/13

Technical Report for

Fort Monmouth Environmental Testing Lab.

Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
CWATP

Accutest Job Number: JB42300

Sampling Date: 07/16/13

Report to:

Fort Monmouth Environmental Testing Lab.

RYouhas@chenega.com

ATTN: Rob Youhas

Total number of pages in report: **11**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads 'Nancy Cole'.

Nancy Cole
Laboratory Director

Client Service contact: Kristin Beebe 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC,
OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

Fort Monmouth Environmental Testing Lab.

Job No: JB42300

Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
Project No: CWATP

Sample Number	Collected		Matrix Code Type	Client	
	Date	Time By	Received	Sample ID	
JB42300-1	07/16/13	08:45 RY	07/16/13	SO	Soil
					SSTA-E (7.5-8.0)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Fort Monmouth Environmental Testing Lab.

Job No JB42300

Site: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, F

Report Date 7/30/2013 10:33:59 A

On 07/16/2013, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 5.2 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB42300 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.

Wet Chemistry By Method ASTM D1498-76M

Matrix: SO

Batch ID: GN88466

- Sample(s) JB42548-1DUP were used as the QC samples for Redox Potential Vs H2.

Wet Chemistry By Method SM2540 G-97

Matrix: SO

Batch ID: GN88422

- The data for SM2540 G-97 meets quality control requirements.

Wet Chemistry By Method SW846 3060A/7196A

Matrix: SO

Batch ID: GP73510

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42300-1MS, JB42300-1DUP, JB42300-1MS were used as the QC samples for Chromium, Hexavalent.
- Matrix Spike Recovery(s) for Chromium, Hexavalent are outside control limits. Soluble XCR matrix spike recovery indicates possible matrix interference. Good post spike recovery (93.6%) on this sample.
- RPD(s) for Duplicate for Chromium, Hexavalent are outside control limits for sample GP73510-D1. High RPD due to possible sample nonhomogeneity.
- GP73510-S2 for Chromium, Hexavalent: Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.

Wet Chemistry By Method SW846 9045C,D

Matrix: SO

Batch ID: GN88465

- Sample(s) JB42548-1DUP were used as the QC samples for pH.

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

Summary of Hits

Job Number: JB42300
Account: Fort Monmouth Environmental Testing Lab.
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
Collected: 07/16/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB42300-1	SSTA-E (7.5-8.0)					
Chromium, Hexavalent		3.4	0.43		mg/kg	SW846 3060A/7196A
Redox Potential Vs H2		433			mv	ASTM D1498-76M
pH		4.92			su	SW846 9045C,D

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SSTA-E (7.5-8.0)	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-1	Date Received:	07/16/13
Matrix:	SO - Soil	Percent Solids:	93.2
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	3.4	0.43	mg/kg	1	07/25/13 20:37	CW	SW846 3060A/7196A
Moisture, Percent	6.8		%	1	07/19/13 16:22	PD	SM2540 G-97
Redox Potential Vs H2	433		mv	1	07/20/13 15:29	SA	ASTM D1498-76M
pH	4.92		su	1	07/20/13 12:51	SA	SW846 9045C,D

RL = Reporting Limit

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

FED-EX Tracking #		Bottle Order Control #	
Accutest Quote #		Accutest Job # JB42300	

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)		Matrix Codes	
Company Name: U.S. Army Fort Monmouth		Project Name: CWATP		Full TCL/TAL+30 Hexavalent Chromium ENJEPH 80 Moisture		DW - Drinking Water GW - Ground Water VW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB-Field Blank EB-Equipment Blank RB-Rinse Blank TB-Trip Blank	
Street Address: P.O. Box 148		Street: Laboratory Road					
City: Oceanport NJ Zip: 07757		City: Tinton Falls NJ					
Project Contact: Robert Yuhas E-mail: ryuhas@thonega.com		Project # CWATP					
Phone # 732-380-7412 Fax #		Client Purchase Order # V66/2012-646					
Sampler(s) Name(s): Robert Yuhas Phone # 732-380-7412		Project Manager: Wanda Green		Attention: Helene Sackowitz			
Turnaround Time (Business days)		Data Deliverable Information		Comments / Special Instructions			

☒ Std. 10 Business Days
☐ 5 Day RUSH
☐ 3 Day EMERGENCY
☐ 2 Day EMERGENCY
☐ 1 Day EMERGENCY
☐ other

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date: _____

☐ Commercial "A" (Level 1)
☐ Commercial "B" (Level 2)
☐ FULLT1 (Level 3+4)
☒ NJ Reduced
☐ Commercial "C"

☐ NYASP Category A
☐ NYASP Category B
☐ State Forms
☐ EDD Format
☐ Other

Commercial "A" = Results Only
 Commercial "B" = Results + QC Summary
 NJ Reduced = Results + QC Summary + Partial Raw data

03 Encores Rec'd 7/16/13 AL

Sample Custody must be documented below each time samples change possession, including courier delivery.			
Relinquished by Sampler: 1	Date Time: 07/16/13 15:50	Received By: 2	Date Time: 1735
Relinquished by Sampler: 3	Date Time:	Received By: 4	Date Time:
Relinquished by: 5	Date Time:	Received By:	Date Time:

Custody Seal #

☐ Intact
☐ Not Intact

Preserved when applicable

☒

On Ice

☐

Cooler Temp.

5.2

2B

JB42300: Chain of Custody

Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB42300 **Client:** _____ **Project:** _____
Date / Time Received: 7/16/2013 **Delivery Method:** _____ **Airbill #s:** _____
Cooler Temps (Initial/Adjusted): #1: (5.2/5.2); 0

Cooler Security

	<u>Y</u>	<u>or</u>	<u>N</u>		<u>Y</u>	<u>or</u>	<u>N</u>
1. Custody Seals Present:	☒		☐	3. COC Present:	☒		☐
2. Custody Seals Intact:	☒		☐	4. Smpl Dates/Time OK	☒		☐

Cooler Temperature

	<u>Y</u>	<u>or</u>	<u>N</u>
1. Temp criteria achieved:	☒		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation

	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Trip Blank present / cooler:	☐		☒	☐
2. Trip Blank listed on COC:	☐		☒	☐
3. Samples preserved properly:	☒		☐	
4. VOCs headspace free:	☒		☐	☐

Comments

Sample Integrity - Documentation

	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample labels present on bottles:	☒		☐
2. Container labeling complete:	☒		☐
3. Sample container label / COC agree:	☒		☐

Sample Integrity - Condition

	<u>Y</u>	<u>or</u>	<u>N</u>
1. Sample recvd within HT:	☒		☐
2. All containers accounted for:	☒		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions

	<u>Y</u>	<u>or</u>	<u>N</u>	<u>N/A</u>
1. Analysis requested is clear:	☒		☐	
2. Bottles received for unspecified tests	☐		☒	
3. Sufficient volume recvd for analysis:	☒		☐	
4. Compositing instructions clear:	☐		☐	☒
5. Filtering instructions clear:	☐		☐	☒



Job Change Order: JB42300

Requested Date:	7/26/2013	Received Date:	7/16/2013
Account Name:	Fort Monmouth Environmental Te	Due Date:	7/30/2013
Project Description:	Fort Monmouth Env Testing Lab, Building 173, SEL	Deliverable:	FULT1
CSR:	kristinb	TAT (Days):	14

=====

Sample #:	JB42300-1	Change:	
Dept:			Please relog sample and MS/MSD for XXCRAR

SSTA-E (7.5-8.0)

=====

Above Changes Per: Client / Robert Youhas **Date:** 7/26/2013

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

JB42300: Chain of Custody
Page 3 of 3



09/11/13

Technical Report for

Fort Monmouth Environmental Testing Lab.

Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
CWATP

Accutest Job Number: JB42300A

Sampling Date: 07/16/13

Report to:

Fort Monmouth Environmental Testing Lab.

RYouhas@chenega.com

ATTN: Rob Youhas

Total number of pages in report: **45**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads 'Nancy Cole'.

Nancy Cole
Laboratory Director

Client Service contact: Kristin Beebe 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC,
OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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Sample Summary

Fort Monmouth Environmental Testing Lab.

Job No: JB42300A

Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Project No: CWATP

Sample Number	Collected			Received	Matrix		Client Sample ID
	Date	Time	By		Code	Type	
JB42300-1A	07/16/13	08:45	RY	07/16/13	SO	Soil	SSTA-E (7.5-8.0)
JB42300-2	07/16/13	10:30	RY	07/16/13	AQ	Ground Water	SSSC-C-GW
JB42300-3	07/16/13	11:20	RY	07/16/13	AQ	Ground Water	SSSC-D-GW

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Fort Monmouth Environmental Testing Lab.

Job No JB42300A

Site: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, F

Report Date 8/1/2013 3:37:35 PM

On 07/16/2013, 3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 5.2 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB42300A 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.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ

Batch ID: V1C5267

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB42185-1MS, JB42185-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, 1,1,2-Trichloroethane, 1,2-Dibromo-3-chloropropane, 1,2-Dibromoethane, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, 2-Hexanone, Bromoform, Dibromochloromethane are outside control limits. High percent recoveries and no associated positive found in the QC batch.

Matrix: AQ

Batch ID: V1C5270

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB42308-1MS, JB42308-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 1,1,2,2-Tetrachloroethane, 1,2-Dibromoethane are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- Matrix Spike Recovery(s) for Styrene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Styrene are outside control limits. Outside control limits due to matrix interference.

Matrix: SO

Batch ID: VX5988

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB41793-6MS, JB41793-6MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ

Batch ID: OP67568

- All samples were extracted within the recommended method holding time.
- Sample(s) JB42374-2MS, JB42374-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 2-Nitroaniline, 3,3'-Dichlorobenzidine, 4-Nitroaniline are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 2-Nitroaniline, 3,3'-Dichlorobenzidine, 4-Nitroaniline are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MS/MSD for Hexachlorobutadiene are outside control limits. Outside control limits due to matrix interference.

Matrix: SO

Batch ID: OP67511

- All samples were extracted within the recommended method holding time.
- Sample(s) JB42292-3MS, JB42292-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for 2,3,4,6-Tetrachlorophenol, 2,4,5-Trichlorophenol, 2,4,6-Trichlorophenol, 2,4-Dichlorophenol, 2,4-Dinitrophenol, 2-Chlorophenol, 2-Nitrophenol, 4,6-Dinitro-o-cresol, 4-Chloro-3-methyl phenol, 4-Nitrophenol, Carbazole, Fluorene, Indeno(1,2,3-cd)pyrene, N-Nitrosodiphenylamine, Pentachlorophenol are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Recovery(s) for Fluoranthene, Pyrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- OP67511-MS for 2-Fluorophenol: Outside control limits due to matrix interference.
- OP67511-MS/MSD for 2,4,6-Tribromophenol: Outside control limits due to matrix interference.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ

Batch ID: OP67568A

- All samples were extracted within the recommended method holding time.
- Sample(s) JB42374-2MS, JB42374-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method NJDEP EPH

Matrix: AQ

Batch ID: OP67501

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42273-5DUP, JB42300-3MS, JB42300-3MSD were used as the QC samples indicated.
- JB42300-2 for 1-Chlorooctadecane: Outside the QC limits, confirmed by re-extract.

Matrix: AQ

Batch ID: OP67641

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42675-10MS, JB42675-10MSD, JB42786-13DUP were used as the QC samples indicated.
- JB42300-2: Confirmation run for surrogate recoveries.

Matrix: SO

Batch ID: OP67499

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42273-1DUP, JB42273-3MS, JB42273-3MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for C9-C12 Aliphatics are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for C12-C16 Aliphatics, C16-C21 Aliphatics, C16-C21 Aromatics, C21-C36 Aromatics, C21-C40 Aliphatics, Total Aliphatics, Total Aromatics, Total EPH are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- RPD(s) for Duplicate for C10-C12 Aromatics, C12-C16 Aliphatics, C16-C21 Aliphatics, C21-C40 Aliphatics, Total Aliphatics are outside control limits. Outside the QC limits.
- RPD(s) for MS/MSD for C21-C36 Aromatics are outside control limits. Outside control limits due to matrix interference.
- OP67499-DUP for 1-Chlorooctadecane: Outside the QC limits.

Extractables by GC By Method SW846 8081B

Matrix: AQ

Batch ID: OP67517

- All samples were extracted within the recommended method holding time.
- Sample(s) JB42300-3MS, JB42300-3MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO

Batch ID: OP67513

- All samples were extracted within the recommended method holding time.
- Sample(s) JB42346-4MS, JB42346-4MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for alpha-BHC, delta-BHC, Heptachlor epoxide, gamma-BHC (Lindane), Endosulfan-I are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for 4,4'-DDD, 4,4'-DDT are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Matrix Spike Recovery(s) for 4,4'-DDD, 4,4'-DDT, beta-BHC are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Extractables by GC By Method SW846 8082A

Matrix: AQ

Batch ID: OP67516

- All samples were extracted within the recommended method holding time.
- Sample(s) JB42308-1MS, JB42308-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Matrix: SO

Batch ID: OP67512

- All samples were extracted within the recommended method holding time.
- Sample(s) JB42300-1AMS, JB42300-1AMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010C

Matrix: AQ

Batch ID: MP73272

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42312-1FMS, JB42312-1FMSD, JB42312-1FSDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Silver, Aluminum, Arsenic, Cadmium, Cobalt, Copper, Nickel are outside control limits. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO

Batch ID: MP73260

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42351-3MS, JB42351-3MSD, JB42351-3SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Antimony, Calcium, Copper, Iron, Magnesium, Manganese are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Antimony, Calcium, Iron, Magnesium, Manganese are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- RPD(s) for Serial Dilution for Antimony, Arsenic, Silver, Thallium are outside control limits. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP73260-SD1 for Vanadium: Serial dilution indicates possible matrix interference.
- MP73260-SD1 for Sodium: Serial dilution indicates possible matrix interference.
- MP73260-SD1 for Nickel: Serial dilution indicates possible matrix interference.
- MP73260-SD1 for Cobalt: Serial dilution indicates possible matrix interference.
- MP73260-SD1 for Beryllium: Serial dilution indicates possible matrix interference.
- MP73260-SD1 for Barium: Serial dilution indicates possible matrix interference.
- MP73260-SD1 for Zinc: Serial dilution indicates possible matrix interference.

Metals By Method SW846 7470A

Matrix: AQ

Batch ID: MP73274

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42399-1MS, JB42399-1MSD were used as the QC samples for metals.

Metals By Method SW846 7471B

Matrix: SO

Batch ID: MP73291

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42435-3MSD, JB42435-3MS were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Mercury are outside control limits. Spike recovery indicates possible matrix interference.

Wet Chemistry By Method EPA 335.4/LACHAT

Matrix: AQ

Batch ID: GP73410

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42308-2DUP, JB42308-2MS were used as the QC samples for Cyanide.
- Matrix Spike Recovery(s) for Cyanide are outside control limits. Spike recovery indicates possible matrix interference.

Wet Chemistry By Method SM4500H+ B-11

Matrix: AQ

Batch ID: R124917

- The data for SM4500H+ B-11 meets quality control requirements.
- JB42300-2 for pH: Sample received out of holding time for pH analysis.

Matrix: AQ

Batch ID: R124918

- The data for SM4500H+ B-11 meets quality control requirements.
- JB42300-3 for pH: Sample received out of holding time for pH analysis.

Wet Chemistry By Method SW846 7196A

Matrix: AQ

Batch ID: GN88211

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42300-3DUP, JB42300-3MS were used as the QC samples for Chromium, Hexavalent.

Wet Chemistry By Method SW846 9012 M/LACHAT

Matrix: SO

Batch ID: GP73465

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42673-1DUP, JB42673-1MS were used as the QC samples for Cyanide.

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

Summary of Hits

Job Number: JB42300A

Account: Fort Monmouth Environmental Testing Lab.

Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Collected: 07/16/13

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JB42300-1A SSTA-E (7.5-8.0)

Methylene chloride	3.3 J	4.5	1.1	ug/kg	SW846 8260B
Toluene	0.42 J	0.89	0.094	ug/kg	SW846 8260B
Acenaphthene	64.4	31	9.0	ug/kg	SW846 8270D
Acenaphthylene	26.5 J	31	9.9	ug/kg	SW846 8270D
Anthracene	50.2	31	11	ug/kg	SW846 8270D
Benzo(a)anthracene	43.9	31	10	ug/kg	SW846 8270D
Benzo(a)pyrene	31.9	31	9.5	ug/kg	SW846 8270D
Benzo(b)fluoranthene	33.9	31	10	ug/kg	SW846 8270D
Benzo(g,h,i)perylene	18.2 J	31	12	ug/kg	SW846 8270D
Benzo(k)fluoranthene	13.6 J	31	12	ug/kg	SW846 8270D
1,1'-Biphenyl	17.5 J	62	3.6	ug/kg	SW846 8270D
Carbazole	18.8 J	62	14	ug/kg	SW846 8270D
Chrysene	36.7	31	10	ug/kg	SW846 8270D
Dibenzofuran	34.1 J	62	9.2	ug/kg	SW846 8270D
Fluoranthene	83.9	31	14	ug/kg	SW846 8270D
Fluorene	53.7	31	10	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene	20.4 J	31	11	ug/kg	SW846 8270D
2-Methylnaphthalene	122	62	17	ug/kg	SW846 8270D
Naphthalene	344	31	8.5	ug/kg	SW846 8270D
Phenanthrene	173	31	14	ug/kg	SW846 8270D
Pyrene	83.0	31	12	ug/kg	SW846 8270D
Total TIC, Semi-Volatile	700 J			ug/kg	
Aluminum	8250	53		mg/kg	SW846 6010C
Arsenic	7.2	2.1		mg/kg	SW846 6010C
Beryllium	0.65	0.21		mg/kg	SW846 6010C
Chromium	67.6	1.1		mg/kg	SW846 6010C
Copper	2.8	2.7		mg/kg	SW846 6010C
Iron	19800	53		mg/kg	SW846 6010C
Lead	5.5	2.1		mg/kg	SW846 6010C
Magnesium	1790	530		mg/kg	SW846 6010C
Manganese	27.2	1.6		mg/kg	SW846 6010C
Nickel	4.4	4.3		mg/kg	SW846 6010C
Potassium	3540	1100		mg/kg	SW846 6010C
Selenium	2.8	2.1		mg/kg	SW846 6010C
Silver	0.62	0.53		mg/kg	SW846 6010C
Vanadium	48.7	5.3		mg/kg	SW846 6010C
Zinc	24.0	2.1		mg/kg	SW846 6010C

JB42300-2 SSSC-C-GW

Chloroform	0.29 J	1.0	0.20	ug/l	SW846 8260B
Naphthalene	0.202	0.10	0.036	ug/l	SW846 8270D BY SIM
Total TIC, Semi-Volatile	19.6 J			ug/l	

Summary of Hits

Page 2 of 2

Job Number: JB42300A

Account: Fort Monmouth Environmental Testing Lab.

Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Collected: 07/16/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Aluminum		8740	200		ug/l	SW846 6010C
Arsenic		15.3	3.0		ug/l	SW846 6010C
Calcium		30600	5000		ug/l	SW846 6010C
Chromium		128	10		ug/l	SW846 6010C
Iron		29900	100		ug/l	SW846 6010C
Lead		23.0	3.0		ug/l	SW846 6010C
Magnesium		6760	5000		ug/l	SW846 6010C
Manganese		25.4	15		ug/l	SW846 6010C
Sodium		29900	10000		ug/l	SW846 6010C
Vanadium		87.8	50		ug/l	SW846 6010C
Zinc		21.1	20		ug/l	SW846 6010C
pH ^a		6.50			su	SM4500H+ B-11
JB42300-3 SSSC-D-GW						
Aluminum		4880	200		ug/l	SW846 6010C
Arsenic		6.8	3.0		ug/l	SW846 6010C
Calcium		37900	5000		ug/l	SW846 6010C
Chromium		58.5	10		ug/l	SW846 6010C
Iron		13800	100		ug/l	SW846 6010C
Lead		7.8	3.0		ug/l	SW846 6010C
Magnesium		13400	5000		ug/l	SW846 6010C
Manganese		53.9	15		ug/l	SW846 6010C
Sodium		51300	10000		ug/l	SW846 6010C
pH ^a		6.44			su	SM4500H+ B-11

(a) Sample received out of holding time for pH analysis.

Sample Results

Report of Analysis

Report of Analysis

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Client Sample ID:	SSTA-E (7.5-8.0)	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-1A	Date Received:	07/16/13
Matrix:	SO - Soil	Percent Solids:	93.2
Method:	SW846 8260B SW846 5035		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X138241.D	1	07/18/13	NT	07/17/13 08:00	n/a	VX5988
Run #2							

	Initial Weight
Run #1	6.0 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	8.9	1.5	ug/kg	
71-43-2	Benzene	ND	0.89	0.11	ug/kg	
74-97-5	Bromochloromethane	ND	4.5	0.24	ug/kg	
75-27-4	Bromodichloromethane	ND	4.5	0.094	ug/kg	
75-25-2	Bromoform	ND	4.5	0.14	ug/kg	
74-83-9	Bromomethane	ND	4.5	0.24	ug/kg	
78-93-3	2-Butanone (MEK)	ND	8.9	2.1	ug/kg	
75-15-0	Carbon disulfide	ND	4.5	0.10	ug/kg	
56-23-5	Carbon tetrachloride	ND	4.5	0.12	ug/kg	
108-90-7	Chlorobenzene	ND	4.5	0.097	ug/kg	
75-00-3	Chloroethane	ND	4.5	0.20	ug/kg	
67-66-3	Chloroform	ND	4.5	0.074	ug/kg	
74-87-3	Chloromethane	ND	4.5	0.17	ug/kg	
110-82-7	Cyclohexane	ND	4.5	0.11	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	8.9	0.80	ug/kg	
124-48-1	Dibromochloromethane	ND	4.5	0.15	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.89	0.11	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.5	0.17	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.5	0.17	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.5	0.16	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.5	0.20	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.5	0.12	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.89	0.12	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4.5	0.23	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4.5	0.16	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4.5	0.21	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.5	0.14	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.5	0.12	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.5	0.14	ug/kg	
123-91-1	1,4-Dioxane	ND	110	53	ug/kg	
100-41-4	Ethylbenzene	ND	0.89	0.24	ug/kg	
76-13-1	Freon 113	ND	4.5	0.38	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

Page 2 of 2

Client Sample ID:	SSTA-E (7.5-8.0)	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-1A	Date Received:	07/16/13
Matrix:	SO - Soil	Percent Solids:	93.2
Method:	SW846 8260B SW846 5035		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	4.5	0.56	ug/kg	
98-82-8	Isopropylbenzene	ND	4.5	0.066	ug/kg	
79-20-9	Methyl Acetate	ND	4.5	2.3	ug/kg	
108-87-2	Methylcyclohexane	ND	4.5	0.15	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.89	0.21	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.5	0.67	ug/kg	
75-09-2	Methylene chloride	3.3	4.5	1.1	ug/kg	J
100-42-5	Styrene	ND	4.5	0.082	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.5	0.12	ug/kg	
127-18-4	Tetrachloroethene	ND	4.5	0.15	ug/kg	
108-88-3	Toluene	0.42	0.89	0.094	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	4.5	0.15	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.5	0.12	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.5	0.095	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.5	0.16	ug/kg	
79-01-6	Trichloroethene	ND	4.5	0.16	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.5	0.27	ug/kg	
75-01-4	Vinyl chloride	ND	4.5	0.13	ug/kg	
	m,p-Xylene	ND	0.89	0.16	ug/kg	
95-47-6	o-Xylene	ND	0.89	0.12	ug/kg	
1330-20-7	Xylene (total)	ND	0.89	0.12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		65-131%
17060-07-0	1,2-Dichloroethane-D4	96%		70-121%
2037-26-5	Toluene-D8	98%		80-128%
460-00-4	4-Bromofluorobenzene	100%		67-131%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	
	Total Alkanes		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

Report of Analysis

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Client Sample ID:	SSTA-E (7.5-8.0)	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-1A	Date Received:	07/16/13
Matrix:	SO - Soil	Percent Solids:	93.2
Method:	SW846 8270D SW846 3550C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2M54621.D	1	07/21/13	JL	07/18/13	OP67511	E2M2322
Run #2							

	Initial Weight	Final Volume
Run #1	34.6 g	1.0 ml
Run #2		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	160	31	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	160	31	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	160	50	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	160	52	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	620	38	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	620	38	ug/kg	
95-48-7	2-Methylphenol	ND	62	35	ug/kg	
	3&4-Methylphenol	ND	62	39	ug/kg	
88-75-5	2-Nitrophenol	ND	160	33	ug/kg	
100-02-7	4-Nitrophenol	ND	310	52	ug/kg	
87-86-5	Pentachlorophenol	ND	310	53	ug/kg	
108-95-2	Phenol	ND	62	33	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	160	32	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	160	36	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	160	29	ug/kg	
83-32-9	Acenaphthene	64.4	31	9.0	ug/kg	
208-96-8	Acenaphthylene	26.5	31	9.9	ug/kg	J
98-86-2	Acetophenone	ND	160	5.5	ug/kg	
120-12-7	Anthracene	50.2	31	11	ug/kg	
1912-24-9	Atrazine	ND	160	6.1	ug/kg	
56-55-3	Benzo(a)anthracene	43.9	31	10	ug/kg	
50-32-8	Benzo(a)pyrene	31.9	31	9.5	ug/kg	
205-99-2	Benzo(b)fluoranthene	33.9	31	10	ug/kg	
191-24-2	Benzo(g,h,i)perylene	18.2	31	12	ug/kg	J
207-08-9	Benzo(k)fluoranthene	13.6	31	12	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	62	11	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	62	18	ug/kg	
92-52-4	1,1'-Biphenyl	17.5	62	3.6	ug/kg	J
100-52-7	Benzaldehyde	ND	160	7.1	ug/kg	
91-58-7	2-Chloronaphthalene	ND	62	9.6	ug/kg	
106-47-8	4-Chloroaniline	ND	160	9.9	ug/kg	
86-74-8	Carbazole	18.8	62	14	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:	SSTA-E (7.5-8.0)	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-1A	Date Received:	07/16/13
Matrix:	SO - Soil	Percent Solids:	93.2
Method:	SW846 8270D SW846 3550C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
105-60-2	Caprolactam	ND	62	9.8	ug/kg	
218-01-9	Chrysene	36.7	31	10	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	62	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	62	9.3	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	62	9.2	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	62	9.3	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	62	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	62	12	ug/kg	
91-94-1	3,3' -Dichlorobenzidine	ND	160	7.9	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	31	11	ug/kg	
132-64-9	Dibenzofuran	34.1	62	9.2	ug/kg	J
84-74-2	Di-n-butyl phthalate	ND	62	6.9	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	62	15	ug/kg	
84-66-2	Diethyl phthalate	ND	62	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	62	11	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	62	27	ug/kg	
206-44-0	Fluoranthene	83.9	31	14	ug/kg	
86-73-7	Fluorene	53.7	31	10	ug/kg	
118-74-1	Hexachlorobenzene	ND	62	10	ug/kg	
87-68-3	Hexachlorobutadiene	ND	31	8.6	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	310	32	ug/kg	
67-72-1	Hexachloroethane	ND	160	8.6	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	20.4	31	11	ug/kg	J
78-59-1	Isophorone	ND	62	8.3	ug/kg	
91-57-6	2-Methylnaphthalene	122	62	17	ug/kg	
88-74-4	2-Nitroaniline	ND	160	14	ug/kg	
99-09-2	3-Nitroaniline	ND	160	12	ug/kg	
100-01-6	4-Nitroaniline	ND	160	12	ug/kg	
91-20-3	Naphthalene	344	31	8.5	ug/kg	
98-95-3	Nitrobenzene	ND	62	9.0	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	62	7.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	160	19	ug/kg	
85-01-8	Phenanthrene	173	31	14	ug/kg	
129-00-0	Pyrene	83.0	31	12	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	160	9.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	84%		13-110%
4165-62-2	Phenol-d5	78%		15-110%

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Report of Analysis

Page 3 of 3

Client Sample ID:	SSTA-E (7.5-8.0)	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-1A	Date Received:	07/16/13
Matrix:	SO - Soil	Percent Solids:	93.2
Method:	SW846 8270D SW846 3550C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List (SOM0 1.1)

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
118-79-6	2,4,6-Tribromophenol	89%		20-123%
4165-60-0	Nitrobenzene-d5	89%		10-110%
321-60-8	2-Fluorobiphenyl	87%		17-110%
1718-51-0	Terphenyl-d14	106%		30-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.32	530	ug/kg	J
	system artifact	3.34	250	ug/kg	J
	system artifact	3.46	150	ug/kg	J
	system artifact/aldol-condensation	3.53	6800	ug/kg	J
	unknown	3.64	140	ug/kg	J
	unknown	4.30	240	ug/kg	J
	unknown	16.93	160	ug/kg	J
	unknown	19.70	160	ug/kg	J
	Total TIC, Semi-Volatile		700	ug/kg	J
	Total Alkanes		0	ug/kg	

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSTA-E (7.5-8.0)	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-1A	Date Received:	07/16/13
Matrix:	SO - Soil	Percent Solids:	93.2
Method:	SW846 8081B SW846 3546		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G2413.D	1	07/19/13	DS	07/18/13	OP67513	G6G81
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.71	0.32	ug/kg	
319-84-6	alpha-BHC	ND	0.71	0.21	ug/kg	
319-85-7	beta-BHC	ND	0.71	0.44	ug/kg	
319-86-8	delta-BHC	ND	0.71	0.35	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.71	0.35	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.71	0.26	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.71	0.49	ug/kg	
60-57-1	Dieldrin	ND	0.71	0.28	ug/kg	
72-54-8	4,4' -DDD	ND	0.71	0.39	ug/kg	
72-55-9	4,4' -DDE	ND	0.71	0.28	ug/kg	
50-29-3	4,4' -DDT	ND	0.71	0.35	ug/kg	
72-20-8	Endrin	ND	0.71	0.23	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.71	0.30	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.71	0.37	ug/kg	
959-98-8	Endosulfan-I	ND	0.71	0.27	ug/kg	
33213-65-9	Endosulfan-II	ND	0.71	0.42	ug/kg	
76-44-8	Heptachlor	ND	0.71	0.34	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.71	0.26	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.69	ug/kg	
53494-70-5	Endrin ketone	ND	0.71	0.29	ug/kg	
8001-35-2	Toxaphene	ND	18	8.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%		10-147%
877-09-8	Tetrachloro-m-xylene	69%		10-147%
2051-24-3	Decachlorobiphenyl	67%		10-154%
2051-24-3	Decachlorobiphenyl	65%		10-154%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSTA-E (7.5-8.0)	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-1A	Date Received:	07/16/13
Matrix:	SO - Soil	Percent Solids:	93.2
Method:	SW846 8082A SW846 3546		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2G83791.D	1	07/18/13	RK	07/18/13	OP67512	G2G2719
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	35	9.2	ug/kg	
11104-28-2	Aroclor 1221	ND	35	21	ug/kg	
11141-16-5	Aroclor 1232	ND	35	18	ug/kg	
53469-21-9	Aroclor 1242	ND	35	11	ug/kg	
12672-29-6	Aroclor 1248	ND	35	11	ug/kg	
11097-69-1	Aroclor 1254	ND	35	17	ug/kg	
11096-82-5	Aroclor 1260	ND	35	12	ug/kg	
11100-14-4	Aroclor 1268	ND	35	10	ug/kg	
37324-23-5	Aroclor 1262	ND	35	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	68%		14-139%
877-09-8	Tetrachloro-m-xylene	70%		14-139%
2051-24-3	Decachlorobiphenyl	70%		10-155%
2051-24-3	Decachlorobiphenyl	68%		10-155%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSTA-E (7.5-8.0)	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-1A	Date Received:	07/16/13
Matrix:	SO - Soil	Percent Solids:	93.2
Method:	NJDEP EPH SW846 3546		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Y9665.D	1	07/25/13	LC	07/17/13	OP67499	G6Y388
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	2.0 ml
Run #2		

NJDEP EPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C10-C12 Aromatics	ND	5.7	0.17	mg/kg	
	C12-C16 Aromatics	ND	5.7	0.24	mg/kg	
	C16-C21 Aromatics	ND	5.7	0.36	mg/kg	
	C21-C36 Aromatics	ND	5.7	0.57	mg/kg	
	Total Aromatics	ND	5.7	0.17	mg/kg	
	C9-C12 Aliphatics	ND	5.7	0.16	mg/kg	
	C12-C16 Aliphatics	ND	5.7	0.24	mg/kg	
	C16-C21 Aliphatics	ND	5.7	0.21	mg/kg	
	C21-C40 Aliphatics	ND	5.7	0.63	mg/kg	
	Total Aliphatics	ND	5.7	0.16	mg/kg	
	Total EPH	ND	5.7	0.16	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	66%		40-140%
321-60-8	2-Fluorobiphenyl	74%		40-140%
3386-33-2	1-Chlorooctadecane	81%		40-140%
580-13-2	2-Bromonaphthalene	83%		40-140%

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Report of Analysis

Page 1 of 1

Client Sample ID: SSTA-E (7.5-8.0)**Lab Sample ID:** JB42300-1A**Matrix:** SO - Soil**Date Sampled:** 07/16/13**Date Received:** 07/16/13**Percent Solids:** 93.2**Project:** Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	8250	53	mg/kg	1	07/18/13	07/27/13	ND	SW846 6010C ²
Antimony	< 2.1	2.1	mg/kg	1	07/18/13	07/27/13	ND	SW846 6010C ²
Arsenic	7.2	2.1	mg/kg	1	07/18/13	07/27/13	ND	SW846 6010C ²
Barium	< 21	21	mg/kg	1	07/18/13	07/27/13	ND	SW846 6010C ²
Beryllium	0.65	0.21	mg/kg	1	07/18/13	07/27/13	ND	SW846 6010C ²
Cadmium	< 0.53	0.53	mg/kg	1	07/18/13	07/27/13	ND	SW846 6010C ²
Calcium	< 530	530	mg/kg	1	07/18/13	07/27/13	ND	SW846 6010C ²
Chromium	67.6	1.1	mg/kg	1	07/18/13	07/27/13	ND	SW846 6010C ²
Cobalt	< 5.3	5.3	mg/kg	1	07/18/13	07/27/13	ND	SW846 6010C ²
Copper	2.8	2.7	mg/kg	1	07/18/13	07/27/13	ND	SW846 6010C ²
Iron	19800	53	mg/kg	1	07/18/13	07/30/13	KK	SW846 6010C ³
Lead	5.5	2.1	mg/kg	1	07/18/13	07/27/13	ND	SW846 6010C ²
Magnesium	1790	530	mg/kg	1	07/18/13	07/30/13	KK	SW846 6010C ³
Manganese	27.2	1.6	mg/kg	1	07/18/13	07/27/13	ND	SW846 6010C ²
Mercury	< 0.033	0.033	mg/kg	1	07/19/13	07/19/13	AA	SW846 7471B ¹
Nickel	4.4	4.3	mg/kg	1	07/18/13	07/27/13	ND	SW846 6010C ²
Potassium	3540	1100	mg/kg	1	07/18/13	07/30/13	KK	SW846 6010C ³
Selenium	2.8	2.1	mg/kg	1	07/18/13	07/27/13	ND	SW846 6010C ²
Silver	0.62	0.53	mg/kg	1	07/18/13	07/27/13	ND	SW846 6010C ²
Sodium	< 1100	1100	mg/kg	1	07/18/13	07/30/13	KK	SW846 6010C ³
Thallium	< 1.1	1.1	mg/kg	1	07/18/13	07/27/13	ND	SW846 6010C ²
Vanadium	48.7	5.3	mg/kg	1	07/18/13	07/27/13	ND	SW846 6010C ²
Zinc	24.0	2.1	mg/kg	1	07/18/13	07/27/13	ND	SW846 6010C ²

(1) Instrument QC Batch: MA31702

(2) Instrument QC Batch: MA31745

(3) Instrument QC Batch: MA31763

(4) Prep QC Batch: MP73260

(5) Prep QC Batch: MP73291

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SSTA-E (7.5-8.0)	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-1A	Date Received:	07/16/13
Matrix:	SO - Soil	Percent Solids:	93.2
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.24	0.24	mg/kg	1	07/22/13 12:43	CV	SW846 9012 M/LACHAT

RL = Reporting Limit

Report of Analysis

Page 1 of 2

Client Sample ID:	SSSC-C-GW	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-2	Date Received:	07/16/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C118862.D	1	07/22/13	MD	n/a	n/a	V1C5267
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	0.29	1.0	0.20	ug/l	J
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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Report of Analysis

Page 2 of 2

Client Sample ID:	SSSC-C-GW	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-2	Date Received:	07/16/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-119%
17060-07-0	1,2-Dichloroethane-D4	97%		74-122%
2037-26-5	Toluene-D8	101%		80-120%
460-00-4	4-Bromofluorobenzene	93%		76-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

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Report of Analysis

Page 1 of 2

Client Sample ID:	SSSC-C-GW	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-2	Date Received:	07/16/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P76144.D	1	07/22/13	JL	07/19/13	OP67568	EP3242
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List without PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.97	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.8	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.5	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	17	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.99	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.0	ug/l	
	3&4-Methylphenol	ND	2.0	0.93	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.5	ug/l	
100-02-7	4-Nitrophenol	ND	10	5.2	ug/l	
108-95-2	Phenol	ND	2.0	1.3	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.94	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.3	ug/l	
98-86-2	Acetophenone	ND	2.0	0.29	ug/l	
1912-24-9	Atrazine	ND	5.0	0.49	ug/l	
100-52-7	Benzaldehyde	ND	5.0	3.3	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.36	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.29	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.30	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.30	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.53	ug/l	
86-74-8	Carbazole	ND	1.0	0.36	ug/l	
105-60-2	Caprolactam	ND	2.0	0.69	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.31	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	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.31	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.43	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.46	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.36	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.27	ug/l	

ND = Not detected MDL - Method Detection Limit

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E = Indicates value exceeds calibration range

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N = Indicates presumptive evidence of a compound

Report of Analysis

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Client Sample ID:	SSSC-C-GW	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-2	Date Received:	07/16/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List without PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
84-74-2	Di-n-butyl phthalate	ND	2.0	0.56	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.31	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.33	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.28	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.59	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.51	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	7.1	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.55	ug/l	
78-59-1	Isophorone	ND	2.0	0.27	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.38	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.7	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.42	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.30	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.31	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		10-110%
4165-62-2	Phenol-d5	29%		10-110%
118-79-6	2,4,6-Tribromophenol	80%		29-139%
4165-60-0	Nitrobenzene-d5	64%		28-131%
321-60-8	2-Fluorobiphenyl	68%		30-121%
1718-51-0	Terphenyl-d14	77%		16-147%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Benzene, -chloro--methyl-	3.19	13	ug/l	J
	Benzene, -chloro--methyl-	3.23	6.6	ug/l	J
	Total TIC, Semi-Volatile		19.6	ug/l	J
	Total Alkanes		0	ug/l	

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Report of Analysis

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Client Sample ID:	SSSC-C-GW	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-2	Date Received:	07/16/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4P2471.D	1	07/26/13	AD	07/19/13	OP67568A	E4P97
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
87-86-5	Pentachlorophenol	ND	0.30	0.10	ug/l	
83-32-9	Acenaphthene	ND	0.10	0.020	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.024	ug/l	
120-12-7	Anthracene	ND	0.10	0.020	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.012	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.012	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.010	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.016	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.015	ug/l	
218-01-9	Chrysene	ND	0.10	0.012	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.017	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.013	ug/l	
86-73-7	Fluorene	ND	0.10	0.017	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.017	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.014	ug/l	
91-20-3	Naphthalene	0.202	0.10	0.036	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.021	ug/l	
129-00-0	Pyrene	ND	0.10	0.015	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	50%		10-110%
4165-62-2	Phenol-d5	38%		10-110%
118-79-6	2,4,6-Tribromophenol	102%		10-157%
4165-60-0	Nitrobenzene-d5	74%		23-131%
321-60-8	2-Fluorobiphenyl	75%		24-120%
1718-51-0	Terphenyl-d14	75%		10-125%

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Report of Analysis

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Client Sample ID:	SSSC-C-GW	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-2	Date Received:	07/16/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8081B SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G77203.D	1	07/19/13	VDT	07/18/13	OP67517	G3G2651
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0079	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0023	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0023	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0019	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0017	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0029	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0016	ug/l	
72-54-8	4,4' -DDD	ND	0.010	0.0025	ug/l	
72-55-9	4,4' -DDE	ND	0.010	0.0017	ug/l	
50-29-3	4,4' -DDT	ND	0.010	0.0032	ug/l	
72-20-8	Endrin	ND	0.010	0.0020	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0019	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0037	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0047	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0028	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0020	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0026	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0041	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	64%		14-144%
877-09-8	Tetrachloro-m-xylene	59%		14-144%
2051-24-3	Decachlorobiphenyl	25%		10-128%
2051-24-3	Decachlorobiphenyl	26%		10-128%

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Report of Analysis

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Client Sample ID:	SSSC-C-GW	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-2	Date Received:	07/16/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G15375.D	1	07/19/13	JR	07/18/13	OP67516	G5G415
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.27	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.086	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.14	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.50	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.50	0.060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%		16-140%
877-09-8	Tetrachloro-m-xylene	69%		16-140%
2051-24-3	Decachlorobiphenyl	29%		10-125%
2051-24-3	Decachlorobiphenyl	30%		10-125%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-C-GW	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-2	Date Received:	07/16/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	NJDEP EPH SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4Z21537.D	1	07/18/13	KD	07/17/13	OP67501	G4Z673
Run #2 ^a	4Y23132.D	1	07/24/13	KD	07/24/13	OP67641	G4Y736

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2	1000 ml	1.0 ml

NJDEP EPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	EPH (C9-C28)	ND	0.050	0.032	mg/l	
	EPH (> C28-C40)	ND	0.050	0.015	mg/l	
	Total EPH (C9-C40)	ND	0.050	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%	95%	40-140%
3386-33-2	1-Chlorooctadecane	22% ^b	37% ^b	40-140%

(a) Confirmation run for surrogate recoveries.

(b) Outside the QC limits, confirmed by re-extract.

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Report of Analysis

Page 1 of 1

Client Sample ID: SSSC-C-GW

Lab Sample ID: JB42300-2

Matrix: AQ - Ground Water

Date Sampled: 07/16/13

Date Received: 07/16/13

Percent Solids: n/a

Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	8740	200	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Antimony	< 6.0	6.0	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Arsenic	15.3	3.0	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Barium	< 200	200	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Calcium	30600	5000	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Chromium	128	10	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Cobalt	< 50	50	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Copper	< 10	10	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Iron	29900	100	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Lead	23.0	3.0	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Magnesium	6760	5000	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Manganese	25.4	15	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	07/18/13	07/18/13 JW	SW846 7470A ¹	SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Potassium	< 10000	10000	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Selenium	< 10	10	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Silver	< 10	10	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Sodium	29900	10000	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Thallium	< 2.0	2.0	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Vanadium	87.8	50	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Zinc	21.1	20	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³

(1) Instrument QC Batch: MA31693

(2) Instrument QC Batch: MA31729

(3) Prep QC Batch: MP73272

(4) Prep QC Batch: MP73274

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SSSC-C-GW	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-2	Date Received:	07/16/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	07/16/13 22:15	CF	SW846 7196A
Cyanide	< 0.010	0.010	mg/l	1	07/19/13 12:15	CV	EPA 335.4/LACHAT
pH ^a	6.50		su	1	07/16/13 20:10	AL	SM4500H+ B-11

(a) Sample received out of holding time for pH analysis.

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	SSSC-D-GW	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-3	Date Received:	07/16/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1C118910.D	1	07/23/13	MD	n/a	n/a	V1C5270
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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Report of Analysis

Page 2 of 2

Client Sample ID:	SSSC-D-GW	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-3	Date Received:	07/16/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		80-119%
17060-07-0	1,2-Dichloroethane-D4	95%		74-122%
2037-26-5	Toluene-D8	102%		80-120%
460-00-4	4-Bromofluorobenzene	93%		76-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 2

Client Sample ID:	SSSC-D-GW	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-3	Date Received:	07/16/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	P76145.D	1	07/22/13	JL	07/19/13	OP67568	EP3242
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List without PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.97	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.8	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.5	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	17	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.99	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.0	ug/l	
	3&4-Methylphenol	ND	2.0	0.93	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.5	ug/l	
100-02-7	4-Nitrophenol	ND	10	5.2	ug/l	
108-95-2	Phenol	ND	2.0	1.3	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.94	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.3	ug/l	
98-86-2	Acetophenone	ND	2.0	0.29	ug/l	
1912-24-9	Atrazine	ND	5.0	0.49	ug/l	
100-52-7	Benzaldehyde	ND	5.0	3.3	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.36	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.29	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.30	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.30	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.53	ug/l	
86-74-8	Carbazole	ND	1.0	0.36	ug/l	
105-60-2	Caprolactam	ND	2.0	0.69	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.31	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	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.31	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.43	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.46	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.36	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.27	ug/l	

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Report of Analysis

Page 2 of 2

Client Sample ID:	SSSC-D-GW	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-3	Date Received:	07/16/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List without PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
84-74-2	Di-n-butyl phthalate	ND	2.0	0.56	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.31	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.33	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.28	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.59	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.51	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	7.1	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.55	ug/l	
78-59-1	Isophorone	ND	2.0	0.27	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.38	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.7	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.42	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.30	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.31	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		10-110%
4165-62-2	Phenol-d5	29%		10-110%
118-79-6	2,4,6-Tribromophenol	80%		29-139%
4165-60-0	Nitrobenzene-d5	61%		28-131%
321-60-8	2-Fluorobiphenyl	66%		30-121%
1718-51-0	Terphenyl-d14	88%		16-147%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-D-GW	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-3	Date Received:	07/16/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4P2472.D	1	07/26/13	AD	07/19/13	OP67568A	E4P97
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
87-86-5	Pentachlorophenol	ND	0.30	0.10	ug/l	
83-32-9	Acenaphthene	ND	0.10	0.020	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.024	ug/l	
120-12-7	Anthracene	ND	0.10	0.020	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.012	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.012	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.010	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.016	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.015	ug/l	
218-01-9	Chrysene	ND	0.10	0.012	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.017	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.013	ug/l	
86-73-7	Fluorene	ND	0.10	0.017	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.017	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.014	ug/l	
91-20-3	Naphthalene	ND	0.10	0.036	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.021	ug/l	
129-00-0	Pyrene	ND	0.10	0.015	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		10-110%
4165-62-2	Phenol-d5	36%		10-110%
118-79-6	2,4,6-Tribromophenol	99%		10-157%
4165-60-0	Nitrobenzene-d5	64%		23-131%
321-60-8	2-Fluorobiphenyl	67%		24-120%
1718-51-0	Terphenyl-d14	81%		10-125%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-D-GW	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-3	Date Received:	07/16/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8081B SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G77204.D	1	07/19/13	VDT	07/18/13	OP67517	G3G2651
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0079	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0023	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0023	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0019	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0017	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0029	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0016	ug/l	
72-54-8	4,4' -DDD	ND	0.010	0.0025	ug/l	
72-55-9	4,4' -DDE	ND	0.010	0.0017	ug/l	
50-29-3	4,4' -DDT	ND	0.010	0.0032	ug/l	
72-20-8	Endrin	ND	0.010	0.0020	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0019	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0037	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0047	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0028	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0020	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0026	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0041	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	54%		14-144%
877-09-8	Tetrachloro-m-xylene	52%		14-144%
2051-24-3	Decachlorobiphenyl	39%		10-128%
2051-24-3	Decachlorobiphenyl	40%		10-128%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-D-GW	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-3	Date Received:	07/16/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G15376.D	1	07/19/13	JR	07/18/13	OP67516	G5G415
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.27	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.086	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.14	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.50	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.50	0.060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	59%		16-140%
877-09-8	Tetrachloro-m-xylene	63%		16-140%
2051-24-3	Decachlorobiphenyl	55%		10-125%
2051-24-3	Decachlorobiphenyl	56%		10-125%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-D-GW	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-3	Date Received:	07/16/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	NJDEP EPH SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4Y23133.D	1	07/24/13	KD	07/24/13	OP67641	G4Y736
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

NJDEP EPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	EPH (C9-C28)	ND	0.050	0.032	mg/l	
	EPH (> C28-C40)	ND	0.050	0.015	mg/l	
	Total EPH (C9-C40)	ND	0.050	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	76%		40-140%
3386-33-2	1-Chlorooctadecane	47%		40-140%

ND = Not detected MDL - Method Detection Limit
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 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: SSSC-D-GW**Lab Sample ID:** JB42300-3**Matrix:** AQ - Ground Water**Date Sampled:** 07/16/13**Date Received:** 07/16/13**Percent Solids:** n/a**Project:** Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	4880	200	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Antimony	< 6.0	6.0	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Arsenic	6.8	3.0	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Barium	< 200	200	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Calcium	37900	5000	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Chromium	58.5	10	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Cobalt	< 50	50	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Copper	< 10	10	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Iron	13800	100	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Lead	7.8	3.0	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Magnesium	13400	5000	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Manganese	53.9	15	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	07/18/13	07/18/13 JW	SW846 7470A ¹	SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Potassium	< 10000	10000	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Selenium	< 10	10	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Silver	< 10	10	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Sodium	51300	10000	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Thallium	< 2.0	2.0	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Vanadium	< 50	50	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³
Zinc	< 20	20	ug/l	1	07/18/13	07/25/13 GT	SW846 6010C ²	SW846 3010A ³

(1) Instrument QC Batch: MA31693

(2) Instrument QC Batch: MA31729

(3) Prep QC Batch: MP73272

(4) Prep QC Batch: MP73274

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SSSC-D-GW	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-3	Date Received:	07/16/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	07/16/13 22:15	CF	SW846 7196A
Cyanide	< 0.010	0.010	mg/l	1	07/19/13 12:16	CV	EPA 335.4/LACHAT
pH ^a	6.44		su	1	07/16/13 20:18	AL	SM4500H+ B-11

(a) Sample received out of holding time for pH analysis.

RL = Reporting Limit

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



PAGE 1 OF 1

FED-EX Tracking #	Bottle Order Control #
Accutest Quote #	Accutest Job # JB41300

[illegible]

2b

5.22
66

JB42300A: Chain of Custody

Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB42300 **Client:** _____ **Project:** _____
Date / Time Received: 7/16/2013 **Delivery Method:** _____ **Airbill #s:** _____
Cooler Temps (Initial/Adjusted): #1: (5.2/5.2); 0

Cooler Security

	Y	or	N		Y	or	N
1. Custody Seals Present:	☒		☐	3. COC Present:	☒		☐
2. Custody Seals Intact:	☒		☐	4. Smpl Dates/Time OK	☒		☐

Cooler Temperature

	Y	or	N
1. Temp criteria achieved:	☒		☐
2. Cooler temp verification:	IR Gun		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservation

	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☒	☐
2. Trip Blank listed on COC:	☐		☒	☐
3. Samples preserved properly:	☒		☐	
4. VOCs headspace free:	☒		☐	☐

Comments

Sample Integrity - Documentation

	Y	or	N
1. Sample labels present on bottles:	☒		☐
2. Container labeling complete:	☒		☐
3. Sample container label / COC agree:	☒		☐

Sample Integrity - Condition

	Y	or	N
1. Sample recvd within HT:	☒		☐
2. All containers accounted for:	☒		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions

	Y	or	N	N/A
1. Analysis requested is clear:	☒		☐	
2. Bottles received for unspecified tests	☐		☒	
3. Sufficient volume recvd for analysis:	☒		☐	
4. Compositing instructions clear:	☐		☐	☒
5. Filtering instructions clear:	☐		☐	☒



Job Change Order: JB42300

Requested Date:	7/26/2013	Received Date:	7/16/2013
Account Name:	Fort Monmouth Environmental Te	Due Date:	7/30/2013
Project Description:	Fort Monmouth Env Testing Lab, Building 173, SEL	Deliverable:	FULT1
CSR:	kristinb	TAT (Days):	14

=====

Sample #:	JB42300-1	Change:	
Dept:			Please relog sample and MS/MSD for XXCRAR

SSTA-E (7.5-8.0)

=====

Above Changes Per: Client / Robert Youhas **Date:** 7/26/2013

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

JB42300A: Chain of Custody
Page 3 of 3



09/11/13

Technical Report for

Fort Monmouth Environmental Testing Lab.

Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
CWATP

Accutest Job Number: JB42300R

Sampling Date: 07/16/13

Report to:

Fort Monmouth Environmental Testing Lab.

RYouhas@chenega.com

ATTN: Rob Youhas

Total number of pages in report: **11**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads 'Nancy Cole'.

Nancy Cole
Laboratory Director

Client Service contact: Kristin Beebe 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC,
OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

Fort Monmouth Environmental Testing Lab.

Job No: JB42300R

Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Project No: CWATP

Sample Number	Collected			Received	Matrix		Client Sample ID
	Date	Time	By		Code	Type	
JB42300-1R	07/16/13	08:45	RY	07/16/13	SO	Soil	SSTA-E (7.5-8.0)
JB42300-1RD	07/16/13	08:45	RY	07/16/13	SO	Soil Dup/MSD	SSTA-E (7.5-8.0)
JB42300-1RS	07/16/13	08:45	RY	07/16/13	SO	Soil Matrix Spike	SSTA-E (7.5-8.0)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Fort Monmouth Environmental Testing Lab.

Job No JB42300R

Site: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, F

Report Date 8/6/2013 3:09:07 PM

On 07/16/2013, 1 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 5.2 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB42300R 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.

Wet Chemistry By Method SW846 3060A/7196A

Matrix: SO

Batch ID: GP73667

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42300-1RDUP, JB42300-1RMS were used as the QC samples for Chromium, Hexavalent.
- Matrix Spike Recovery(s) for Chromium, Hexavalent are outside control limits. Soluble XCR matrix spike recovery indicates possible matrix interference. Good post spike recovery (89.5%) on this sample.
- GP73667-S2 for Chromium, Hexavalent: Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.

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

Summary of Hits

Job Number: JB42300R
Account: Fort Monmouth Environmental Testing Lab.
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
Collected: 07/16/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB42300-1R	SSTA-E (7.5-8.0)					
Chromium, Hexavalent		2.6	0.43		mg/kg	SW846 3060A/7196A

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SSTA-E (7.5-8.0)	Date Sampled:	07/16/13
Lab Sample ID:	JB42300-1R	Date Received:	07/16/13
Matrix:	SO - Soil	Percent Solids:	93.2
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	2.6	0.43	mg/kg	1	08/02/13 16:02	BP	SW846 3060A/7196A

RL = Reporting Limit

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

2235 Route 130, Dayton, NJ 08810
TEL: 732-329-0200 FAX: 732-329-3499/3480
www.accutest.com

Client / Reporting Information Company Name: U.S. Army Fort Monmouth Street Address: P.O. Box 148 City: Oceanport NJ Zip: 07757 Project Contact: Robert Yushas E-mail: ryushas@honeywell.com Phone #: 732-380-7412 Fax #: 732-380-7412 Sample(s) Name(s): Robert Yushas 732-380-7412		Project Information Project Name: CWATP Street: Laboratory Road City: Tinton Falls NJ Project #: CWATP Client Purchase Order #: 1661012-646 Project Manager: Wanda Green		Billing Information (if different from Report to) Company Name: COS, LLC Street Address: P.O. Box 148 City: Oceanport NJ Zip: 07757 Attention: Helene Sackowitz		Requested Analysis (see TEST CODE sheet) Full TCL/TAL+30 Hexavalent Chromium ENJEPH 80 Moisture		Matrix Codes DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OL - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank									
Account Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Matrix	# of bottles	PC	NO3	NO2	HSO4	NONE	DI Water	MEOH	ENDORE	LAB USE ONLY	
-1	SSTA-E(7.5-8.0)		07/16/13	08:45	RY	SO	4					1		3			E23
-2	SSSC-C-GW		07/16/13	10:30	RY	GW	13	5	1	1	6						A2
-3	SSSC-D-GW		07/16/13	11:20	RY	GW	13	5	1	1	6						C44
																	B2
																	B10
																	1464
																	4078
Turnaround Time (Business days)		Data Deliverable Information		Comments / Special Instructions													
☒ Std. 10 Business Days ☐ 5 Day RUSH ☐ 3 Day EMERGENCY ☐ 2 Day EMERGENCY ☐ 1 Day EMERGENCY ☐ other _____ Emergency & Rush T/A data available VIA Lablink		Approved By (Accutest PM): / Date: _____ ☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ FULLT1 (Level 3+4) ☒ NJ Reduced ☐ Commercial "C" ☐ Commercial "A" = Results Only ☐ Commercial "B" = Results + QC Summary ☐ NJ Reduced = Results + QC Summary + Partial Raw data		☐ NYASP Category A ☐ NYASP Category B ☐ State Forms ☐ EDD Format ☐ Other _____ 3 Encores Rec'd 7/16/13 AL													
Sample Custody must be documented below each time samples change possession, including courier delivery.																	
Relinquished by Sampler:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:	Received By:	Date Time:	Relinquished By:	Date Time:
1	07/16/13 15:50	2	1735	3		4		5		6		7		8		9	
3		4		5		6		7		8		9		10		11	
5		6		7		8		9		10		11		12		13	
Custody Seal #		Intact		Not Intact		Preserved when applicable		On Ice		Cooler Temp.							

2B

5.2
RE

JB42300R: Chain of Custody

Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB42300 **Client:** _____ **Project:** _____
Date / Time Received: 7/16/2013 **Delivery Method:** _____ **Airbill #s:** _____
Cooler Temps (Initial/Adjusted): #1: (5.2/5.2); 0

Cooler Security

	Y or N			Y or N	
1. Custody Seals Present:	☒	☐	3. COC Present:	☒	☐
2. Custody Seals Intact:	☒	☐	4. Smpl Dates/Time OK	☒	☐

Cooler Temperature

	Y or N	
1. Temp criteria achieved:	☒	☐
2. Cooler temp verification:	IR Gun	
3. Cooler media:	Ice (Bag)	
4. No. Coolers:	1	

Quality Control Preservation

	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☒	☐
2. Trip Blank listed on COC:	☐		☒	☐
3. Samples preserved properly:	☒		☐	
4. VOCs headspace free:	☒		☐	☐

Comments

Sample Integrity - Documentation

	Y	or	N
1. Sample labels present on bottles:	☒		☐
2. Container labeling complete:	☒		☐
3. Sample container label / COC agree:	☒		☐

Sample Integrity - Condition

	Y	or	N
1. Sample recvd within HT:	☒		☐
2. All containers accounted for:	☒		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions

	Y	or	N	N/A
1. Analysis requested is clear:	☒		☐	
2. Bottles received for unspecified tests	☐		☒	
3. Sufficient volume recvd for analysis:	☒		☐	
4. Compositing instructions clear:	☐		☐	☒
5. Filtering instructions clear:	☐		☐	☒



Job Change Order: JB42300

Requested Date:	7/26/2013	Received Date:	7/16/2013
Account Name:	Fort Monmouth Environmental Te	Due Date:	7/30/2013
Project Description:	Fort Monmouth Env Testing Lab, Building 173, SEL	Deliverable:	FULT1
CSR:	kristinb	TAT (Days):	14

=====

Sample #:	JB42300-1	Change:	
Dept:			Please relog sample and MS/MSD for XXCRAR

SSTA-E (7.5-8.0)

=====

Above Changes Per: Client / Robert Youhas **Date:** 7/26/2013

To Client: This Change Order is confirmation of the revisions, previously discussed with the Accutest Client Service Representative.

Page 1 of 1

JB42300R: Chain of Custody
Page 3 of 3



09/11/13

Technical Report for

Fort Monmouth Environmental Testing Lab.

Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
CWATP

Accutest Job Number: JB42423

Sampling Date: 07/17/13

Report to:

Fort Monmouth Environmental Testing Lab.

RYouhas@chenega.com

ATTN: Rob Youhas

Total number of pages in report: **52**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads 'Nancy Cole'.

Nancy Cole
Laboratory Director

Client Service contact: Kristin Beebe 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC,
OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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Sample Summary

Fort Monmouth Environmental Testing Lab.

Job No: JB42423

Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Project No: CWATP

Sample Number	Collected		Matrix Code	Type	Client Sample ID
	Date	Time By			
JB42423-1	07/17/13	08:30 RY	07/17/13	AQ Ground Water	SSSC-B-GW
JB42423-2	07/17/13	09:30 RY	07/17/13	AQ Ground Water	SSSC-E-GW
JB42423-3	07/17/13	10:00 RY	07/17/13	AQ Ground Water	SSSC-A-GW
JB42423-4	07/17/13	10:30 RY	07/17/13	AQ Ground Water	FFSGC-A-GW

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Fort Monmouth Environmental Testing Lab.

Job No JB42423

Site: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, F

Report Date 7/31/2013 7:05:14 PM

On 07/17/2013, 4 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 5.4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB42423 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.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ

Batch ID: V2C5044

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB42423-1MS, JB42423-2DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ

Batch ID: OP67569

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42423-4MS, JB42423-4MSD were used as the QC samples indicated.
- RPD(s) for MSD for bis(2-Ethylhexyl)phthalate, Butyl benzyl phthalate are outside control limits for sample OP67569-MSD.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ

Batch ID: OP67569A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42423-1MS, JB42423-1MSD were used as the QC samples indicated.

Extractables by GC By Method NJDEP EPH

Matrix: AQ

Batch ID: OP67570

- All samples were extracted within the recommended method holding time.
- Sample(s) JB42561-30DUP were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Total EPH (C9-C40) are outside control limits.

Matrix: AQ

Batch ID: OP67641

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42675-10MS, JB42675-10MSD, JB42786-13DUP were used as the QC samples indicated.

Extractables by GC By Method SW846 8081B

Matrix: AQ

Batch ID: OP67517

- All samples were extracted within the recommended method holding time.
- Sample(s) JB42300-3MS, JB42300-3MSD, OP67517-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8082A

Matrix: AQ

Batch ID: OP67516

- All samples were extracted within the recommended method holding time.
- Sample(s) JB42308-1MS, JB42308-1MSD, OP67516-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010C

Matrix: AQ

Batch ID: MP73296

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42385-3MS, JB42385-3MSD, JB42385-3SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Aluminum, Antimony, Arsenic, Cobalt, Copper, Lead, Nickel, Silver, Vanadium, Zinc are outside control limits for sample MP73296-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- JB42423-1 for Thallium: Elevated detection limit due to dilution required for high interfering element.
- JB42423-1 for Iron: Elevated detection limit due to dilution required for high interfering element.
- MP73296-SD1 for Potassium: Serial dilution indicates possible matrix interference.

Metals By Method SW846 7470A

Matrix: AQ

Batch ID: MP73306

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42423-2MS, JB42423-2MSD were used as the QC samples for metals.

Wet Chemistry By Method EPA 335.4/LACHAT

Matrix: AQ

Batch ID: GP73514

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42423-1DUP, JB42423-1MS, JB42423-2MS were used as the QC samples for Cyanide.
- Matrix Spike Recovery(s) for Cyanide are outside control limits. Spike recovery indicates possible matrix interference.

Wet Chemistry By Method SM4500H+ B-11

Matrix: AQ	Batch ID: R124895

- The data for SM4500H+ B-11 meets quality control requirements.
- JB42423-1 for pH: Sample received out of holding time for pH analysis.

Matrix: AQ	Batch ID: R124896

- The data for SM4500H+ B-11 meets quality control requirements.
- JB42423-2 for pH: Sample received out of holding time for pH analysis.

Matrix: AQ	Batch ID: R124897

- The data for SM4500H+ B-11 meets quality control requirements.
- JB42423-3 for pH: Sample received out of holding time for pH analysis.

Matrix: AQ	Batch ID: R124898

- The data for SM4500H+ B-11 meets quality control requirements.
- JB42423-4 for pH: Sample received out of holding time for pH analysis.

Wet Chemistry By Method SW846 7196A

Matrix: AQ	Batch ID: GN88287

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42423-3DUP, JB42423-3MS were used as the QC samples for Chromium, Hexavalent.

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

Summary of Hits

Job Number: JB42423

Account: Fort Monmouth Environmental Testing Lab.

Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Collected: 07/17/13



Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB42423-1 SSSC-B-GW						
alpha-Chlordane		0.13	0.010	0.0029	ug/l	SW846 8081B
gamma-Chlordane		0.12	0.010	0.0021	ug/l	SW846 8081B
Aluminum		35800	200		ug/l	SW846 6010C
Arsenic		36.3	3.0		ug/l	SW846 6010C
Beryllium		2.9	1.0		ug/l	SW846 6010C
Calcium		32200	5000		ug/l	SW846 6010C
Chromium		408	10		ug/l	SW846 6010C
Copper		12.0	10		ug/l	SW846 6010C
Iron ^a		105000	200		ug/l	SW846 6010C
Lead		36.9	6.0		ug/l	SW846 6010C
Magnesium		12500	5000		ug/l	SW846 6010C
Manganese		115	15		ug/l	SW846 6010C
Nickel		18.6	10		ug/l	SW846 6010C
Potassium		18300	10000		ug/l	SW846 6010C
Sodium		132000	10000		ug/l	SW846 6010C
Vanadium		269	50		ug/l	SW846 6010C
Zinc		157	20		ug/l	SW846 6010C
pH ^b		5.34			su	SM4500H+ B-11
JB42423-2 SSSC-E-GW						
bis(2-Ethylhexyl)phthalate		2.9	2.0	0.59	ug/l	SW846 8270D
EPH (C9-C28)		0.220	0.050	0.032	mg/l	NJDEP EPH
Total EPH (C9-C40)		0.220	0.050	0.015	mg/l	NJDEP EPH
Calcium		57100	5000		ug/l	SW846 6010C
Iron		182	100		ug/l	SW846 6010C
Manganese		27.6	15		ug/l	SW846 6010C
Sodium		15400	10000		ug/l	SW846 6010C
Zinc		37.4	20		ug/l	SW846 6010C
pH ^b		6.02			su	SM4500H+ B-11
JB42423-3 SSSC-A-GW						
EPH (C9-C28)		0.290	0.050	0.032	mg/l	NJDEP EPH
Total EPH (C9-C40)		0.290	0.050	0.015	mg/l	NJDEP EPH
Calcium		55500	5000		ug/l	SW846 6010C
Iron		177	100		ug/l	SW846 6010C
Manganese		28.9	15		ug/l	SW846 6010C
Sodium		16000	10000		ug/l	SW846 6010C
Zinc		37.3	20		ug/l	SW846 6010C
pH ^b		6.24			su	SM4500H+ B-11

Summary of Hits

Job Number: JB42423

Account: Fort Monmouth Environmental Testing Lab.

Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Collected: 07/17/13

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB42423-4	FFSGC-A-GW					
Chlorobenzene		2.9	1.0	0.23	ug/l	SW846 8260B
EPH (C9-C28)		0.202	0.050	0.032	mg/l	NJDEP EPH
Total EPH (C9-C40)		0.202	0.050	0.015	mg/l	NJDEP EPH
Aluminum		6560	200		ug/l	SW846 6010C
Arsenic		10.8	3.0		ug/l	SW846 6010C
Calcium		20300	5000		ug/l	SW846 6010C
Chromium		16.7	10		ug/l	SW846 6010C
Iron		71600	100		ug/l	SW846 6010C
Lead		6.5	3.0		ug/l	SW846 6010C
Magnesium		6240	5000		ug/l	SW846 6010C
Manganese		399	15		ug/l	SW846 6010C
Sodium		35900	10000		ug/l	SW846 6010C
pH ^b		6.07			su	SM4500H+ B-11

(a) Elevated detection limit due to dilution required for high interfering element.

(b) Sample received out of holding time for pH analysis.

Sample Results

Report of Analysis

Report of Analysis

Page 1 of 2

Client Sample ID:	SSSC-B-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-1	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C109895.D	1	07/20/13	DR	n/a	n/a	V2C5044
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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Report of Analysis

Page 2 of 2

Client Sample ID: SSSC-B-GW	Date Sampled: 07/17/13
Lab Sample ID: JB42423-1	Date Received: 07/17/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-119%
17060-07-0	1,2-Dichloroethane-D4	105%		74-122%
2037-26-5	Toluene-D8	108%		80-120%
460-00-4	4-Bromofluorobenzene	102%		76-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

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Report of Analysis

Page 1 of 2

Client Sample ID:	SSSC-B-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-1	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P22392.D	1	07/25/13	KH	07/19/13	OP67569	E3P983
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List without PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.97	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.8	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.5	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	17	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.99	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.0	ug/l	
	3&4-Methylphenol	ND	2.0	0.93	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.5	ug/l	
100-02-7	4-Nitrophenol	ND	10	5.2	ug/l	
108-95-2	Phenol	ND	2.0	1.3	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.94	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.3	ug/l	
98-86-2	Acetophenone	ND	2.0	0.29	ug/l	
1912-24-9	Atrazine	ND	5.0	0.49	ug/l	
100-52-7	Benzaldehyde	ND	5.0	3.3	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.36	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.29	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.30	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.30	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.53	ug/l	
86-74-8	Carbazole	ND	1.0	0.36	ug/l	
105-60-2	Caprolactam	ND	2.0	0.69	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.31	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	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.31	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.43	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.46	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.36	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.27	ug/l	

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Report of Analysis

Page 2 of 2

Client Sample ID:	SSSC-B-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-1	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List without PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
84-74-2	Di-n-butyl phthalate	ND	2.0	0.56	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.31	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.33	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.28	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.59	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.51	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	7.1	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.55	ug/l	
78-59-1	Isophorone	ND	2.0	0.27	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.38	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.7	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.42	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.30	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.31	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	20%		10-110%
4165-62-2	Phenol-d5	14%		10-110%
118-79-6	2,4,6-Tribromophenol	71%		29-139%
4165-60-0	Nitrobenzene-d5	52%		28-131%
321-60-8	2-Fluorobiphenyl	53%		30-121%
1718-51-0	Terphenyl-d14	47%		16-147%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Semi-Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-B-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-1	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4P2519.D	1	07/27/13	JL	07/19/13	OP67569A	E4P99
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
87-86-5	Pentachlorophenol	ND	0.30	0.10	ug/l	
83-32-9	Acenaphthene	ND	0.10	0.020	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.024	ug/l	
120-12-7	Anthracene	ND	0.10	0.020	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.012	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.012	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.010	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.016	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.015	ug/l	
218-01-9	Chrysene	ND	0.10	0.012	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.017	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.013	ug/l	
86-73-7	Fluorene	ND	0.10	0.017	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.017	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.014	ug/l	
91-20-3	Naphthalene	ND	0.10	0.036	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.021	ug/l	
129-00-0	Pyrene	ND	0.10	0.015	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	21%		10-110%
4165-62-2	Phenol-d5	14%		10-110%
118-79-6	2,4,6-Tribromophenol	65%		10-157%
4165-60-0	Nitrobenzene-d5	46%		23-131%
321-60-8	2-Fluorobiphenyl	48%		24-120%
1718-51-0	Terphenyl-d14	49%		10-125%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-B-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-1	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8081B SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G77209.D	1	07/19/13	VDT	07/18/13	OP67517	G3G2651
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0079	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0023	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0023	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0019	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0017	ug/l	
5103-71-9	alpha-Chlordane	0.13	0.010	0.0029	ug/l	
5103-74-2	gamma-Chlordane	0.12	0.010	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0016	ug/l	
72-54-8	4,4' -DDD	ND	0.010	0.0025	ug/l	
72-55-9	4,4' -DDE	ND	0.010	0.0017	ug/l	
50-29-3	4,4' -DDT	ND	0.010	0.0032	ug/l	
72-20-8	Endrin	ND	0.010	0.0020	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0019	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0037	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0047	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0028	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0020	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0026	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0041	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	50%		14-144%
877-09-8	Tetrachloro-m-xylene	49%		14-144%
2051-24-3	Decachlorobiphenyl	30%		10-128%
2051-24-3	Decachlorobiphenyl	30%		10-128%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-B-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-1	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G15383.D	1	07/19/13	JR	07/18/13	OP67516	G5G415
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.27	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.086	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.14	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.50	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.50	0.060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	50%		16-140%
877-09-8	Tetrachloro-m-xylene	54%		16-140%
2051-24-3	Decachlorobiphenyl	35%		10-125%
2051-24-3	Decachlorobiphenyl	39%		10-125%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-B-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-1	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	NJDEP EPH SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4Y23134.D	1	07/24/13	KD	07/24/13	OP67641	G4Y736
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

NJDEP EPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	EPH (C9-C28)	ND	0.050	0.032	mg/l	
	EPH (> C28-C40)	ND	0.050	0.015	mg/l	
	Total EPH (C9-C40)	ND	0.050	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	83%		40-140%
3386-33-2	1-Chlorooctadecane	56%		40-140%

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Report of Analysis

Page 1 of 1

Client Sample ID: SSSC-B-GW	Date Sampled: 07/17/13
Lab Sample ID: JB42423-1	Date Received: 07/17/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ	

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	35800	200	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ⁵
Antimony	< 6.0	6.0	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ⁵
Arsenic	36.3	3.0	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ⁵
Barium	< 200	200	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ⁵
Beryllium	2.9	1.0	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ⁵
Cadmium	< 3.0	3.0	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ⁵
Calcium	32200	5000	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ⁵
Chromium	408	10	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ⁵
Cobalt	< 50	50	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ⁵
Copper	12.0	10	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ⁵
Iron ^a	105000	200	ug/l	2	07/19/13	07/31/13 JY	SW846 6010C ³	SW846 3010A ⁵
Lead	36.9	6.0	ug/l	2	07/19/13	07/31/13 ND	SW846 6010C ⁴	SW846 3010A ⁵
Magnesium	12500	5000	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ⁵
Manganese	115	15	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ⁵
Mercury	< 0.20	0.20	ug/l	1	07/19/13	07/19/13 JW	SW846 7470A ¹	SW846 7470A ⁶
Nickel	18.6	10	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ⁵
Potassium	18300	10000	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ⁵
Selenium	< 10	10	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ⁵
Silver	< 10	10	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ⁵
Sodium	132000	10000	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ⁵
Thallium ^a	< 4.0	4.0	ug/l	2	07/19/13	07/31/13 JY	SW846 6010C ³	SW846 3010A ⁵
Vanadium	269	50	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ⁵
Zinc	157	20	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ⁵

(1) Instrument QC Batch: MA31701

(2) Instrument QC Batch: MA31749

(3) Instrument QC Batch: MA31771

(4) Instrument QC Batch: MA31778

(5) Prep QC Batch: MP73296

(6) Prep QC Batch: MP73306

(a) Elevated detection limit due to dilution required for high interfering element.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SSSC-B-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-1	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	07/17/13 22:40	LS	SW846 7196A
Cyanide	< 0.010	0.010	mg/l	1	07/24/13 11:09	CV	EPA 335.4/LACHAT
pH ^a	5.34		su	1	07/17/13 20:20	AL	SM4500H+ B-11

(a) Sample received out of holding time for pH analysis.

RL = Reporting Limit

Report of Analysis

Page 1 of 2

Client Sample ID:	SSSC-E-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-2	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C109897.D	1	07/20/13	DR	n/a	n/a	V2C5044
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	SSSC-E-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-2	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		80-119%
17060-07-0	1,2-Dichloroethane-D4	106%		74-122%
2037-26-5	Toluene-D8	109%		80-120%
460-00-4	4-Bromofluorobenzene	102%		76-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

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Report of Analysis

Page 1 of 2

Client Sample ID:	SSSC-E-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-2	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P22393.D	1	07/25/13	KH	07/19/13	OP67569	E3P983
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List without PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.97	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.8	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.5	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	17	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.99	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.0	ug/l	
	3&4-Methylphenol	ND	2.0	0.93	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.5	ug/l	
100-02-7	4-Nitrophenol	ND	10	5.2	ug/l	
108-95-2	Phenol	ND	2.0	1.3	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.94	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.3	ug/l	
98-86-2	Acetophenone	ND	2.0	0.29	ug/l	
1912-24-9	Atrazine	ND	5.0	0.49	ug/l	
100-52-7	Benzaldehyde	ND	5.0	3.3	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.36	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.29	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.30	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.30	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.53	ug/l	
86-74-8	Carbazole	ND	1.0	0.36	ug/l	
105-60-2	Caprolactam	ND	2.0	0.69	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.31	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	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.31	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.43	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.46	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.36	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.27	ug/l	

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Report of Analysis

Page 2 of 2

Client Sample ID:	SSSC-E-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-2	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List without PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
84-74-2	Di-n-butyl phthalate	ND	2.0	0.56	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.31	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.33	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.28	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	2.9	2.0	0.59	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.51	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	7.1	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.55	ug/l	
78-59-1	Isophorone	ND	2.0	0.27	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.38	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.7	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.42	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.30	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.31	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	27%		10-110%
4165-62-2	Phenol-d5	19%		10-110%
118-79-6	2,4,6-Tribromophenol	88%		29-139%
4165-60-0	Nitrobenzene-d5	68%		28-131%
321-60-8	2-Fluorobiphenyl	71%		30-121%
1718-51-0	Terphenyl-d14	77%		16-147%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.23	4.6	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-E-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-2	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4P2520.D	1	07/27/13	JL	07/19/13	OP67569A	E4P99
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
87-86-5	Pentachlorophenol	ND	0.30	0.10	ug/l	
83-32-9	Acenaphthene	ND	0.10	0.020	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.024	ug/l	
120-12-7	Anthracene	ND	0.10	0.020	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.012	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.012	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.010	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.016	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.015	ug/l	
218-01-9	Chrysene	ND	0.10	0.012	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.017	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.013	ug/l	
86-73-7	Fluorene	ND	0.10	0.017	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.017	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.014	ug/l	
91-20-3	Naphthalene	ND	0.10	0.036	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.021	ug/l	
129-00-0	Pyrene	ND	0.10	0.015	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	27%		10-110%
4165-62-2	Phenol-d5	18%		10-110%
118-79-6	2,4,6-Tribromophenol	79%		10-157%
4165-60-0	Nitrobenzene-d5	58%		23-131%
321-60-8	2-Fluorobiphenyl	61%		24-120%
1718-51-0	Terphenyl-d14	73%		10-125%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-E-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-2	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8081B SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G77210.D	1	07/19/13	VDT	07/18/13	OP67517	G3G2651
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0079	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0023	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0023	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0019	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0017	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0029	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0016	ug/l	
72-54-8	4,4' -DDD	ND	0.010	0.0025	ug/l	
72-55-9	4,4' -DDE	ND	0.010	0.0017	ug/l	
50-29-3	4,4' -DDT	ND	0.010	0.0032	ug/l	
72-20-8	Endrin	ND	0.010	0.0020	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0019	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0037	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0047	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0028	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0020	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0026	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0041	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	60%		14-144%
877-09-8	Tetrachloro-m-xylene	59%		14-144%
2051-24-3	Decachlorobiphenyl	35%		10-128%
2051-24-3	Decachlorobiphenyl	36%		10-128%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-E-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-2	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G15384.D	1	07/19/13	JR	07/18/13	OP67516	G5G415
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.27	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.086	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.14	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.50	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.50	0.060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	62%		16-140%
877-09-8	Tetrachloro-m-xylene	68%		16-140%
2051-24-3	Decachlorobiphenyl	40%		10-125%
2051-24-3	Decachlorobiphenyl	42%		10-125%

ND = Not detected MDL - Method Detection Limit

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-E-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-2	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	NJDEP EPH SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5Y13697.D	1	07/22/13	GAD	07/19/13	OP67570	G5Y404
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

NJDEP EPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	EPH (C9-C28)	0.220	0.050	0.032	mg/l	
	EPH (> C28-C40)	ND	0.050	0.015	mg/l	
	Total EPH (C9-C40)	0.220	0.050	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	95%		40-140%
3386-33-2	1-Chlorooctadecane	45%		40-140%

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Report of Analysis

Page 1 of 1

Client Sample ID: SSSC-E-GW	Date Sampled: 07/17/13
Lab Sample ID: JB42423-2	Date Received: 07/17/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ	

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Antimony	< 6.0	6.0	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Arsenic	< 3.0	3.0	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Barium	< 200	200	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Calcium	57100	5000	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Chromium	< 10	10	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Cobalt	< 50	50	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Copper	< 10	10	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Iron	182	100	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Lead	< 3.0	3.0	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Magnesium	< 5000	5000	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Manganese	27.6	15	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	07/19/13	07/19/13	JW	SW846 7470A ¹ SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Potassium	< 10000	10000	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Selenium	< 10	10	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Silver	< 10	10	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Sodium	15400	10000	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Thallium	< 2.0	2.0	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Vanadium	< 50	50	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Zinc	37.4	20	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³

(1) Instrument QC Batch: MA31701

(2) Instrument QC Batch: MA31749

(3) Prep QC Batch: MP73296

(4) Prep QC Batch: MP73306

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SSSC-E-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-2	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	07/17/13 22:40	LS	SW846 7196A
Cyanide	< 0.010	0.010	mg/l	1	07/24/13 11:12	CV	EPA 335.4/LACHAT
pH ^a	6.02		su	1	07/17/13 20:25	AL	SM4500H+ B-11

(a) Sample received out of holding time for pH analysis.

RL = Reporting Limit

Report of Analysis

Page 1 of 2

Client Sample ID:	SSSC-A-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-3	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C109898.D	1	07/20/13	DR	n/a	n/a	V2C5044
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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Report of Analysis

Page 2 of 2

Client Sample ID:	SSSC-A-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-3	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		80-119%
17060-07-0	1,2-Dichloroethane-D4	108%		74-122%
2037-26-5	Toluene-D8	109%		80-120%
460-00-4	4-Bromofluorobenzene	102%		76-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

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Report of Analysis

Page 1 of 2

Client Sample ID:	SSSC-A-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-3	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P22394.D	1	07/25/13	KH	07/19/13	OP67569	E3P983
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List without PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.97	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.8	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.5	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	17	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.99	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.0	ug/l	
	3&4-Methylphenol	ND	2.0	0.93	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.5	ug/l	
100-02-7	4-Nitrophenol	ND	10	5.2	ug/l	
108-95-2	Phenol	ND	2.0	1.3	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.94	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.3	ug/l	
98-86-2	Acetophenone	ND	2.0	0.29	ug/l	
1912-24-9	Atrazine	ND	5.0	0.49	ug/l	
100-52-7	Benzaldehyde	ND	5.0	3.3	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.36	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.29	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.30	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.30	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.53	ug/l	
86-74-8	Carbazole	ND	1.0	0.36	ug/l	
105-60-2	Caprolactam	ND	2.0	0.69	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.31	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	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.31	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.43	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.46	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.36	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.27	ug/l	

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Report of Analysis

Page 2 of 2

Client Sample ID:	SSSC-A-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-3	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List without PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
84-74-2	Di-n-butyl phthalate	ND	2.0	0.56	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.31	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.33	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.28	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.59	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.51	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	7.1	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.55	ug/l	
78-59-1	Isophorone	ND	2.0	0.27	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.38	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.7	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.42	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.30	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.31	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		10-110%
4165-62-2	Phenol-d5	24%		10-110%
118-79-6	2,4,6-Tribromophenol	109%		29-139%
4165-60-0	Nitrobenzene-d5	89%		28-131%
321-60-8	2-Fluorobiphenyl	89%		30-121%
1718-51-0	Terphenyl-d14	97%		16-147%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.23	4.7	ug/l	J
	system artifact/aldol-condensation	3.73	4.4	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-A-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-3	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4P2521.D	1	07/27/13	JL	07/19/13	OP67569A	E4P99
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
87-86-5	Pentachlorophenol	ND	0.30	0.10	ug/l	
83-32-9	Acenaphthene	ND	0.10	0.020	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.024	ug/l	
120-12-7	Anthracene	ND	0.10	0.020	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.012	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.012	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.010	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.016	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.015	ug/l	
218-01-9	Chrysene	ND	0.10	0.012	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.017	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.013	ug/l	
86-73-7	Fluorene	ND	0.10	0.017	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.017	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.014	ug/l	
91-20-3	Naphthalene	ND	0.10	0.036	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.021	ug/l	
129-00-0	Pyrene	ND	0.10	0.015	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	34%		10-110%
4165-62-2	Phenol-d5	24%		10-110%
118-79-6	2,4,6-Tribromophenol	97%		10-157%
4165-60-0	Nitrobenzene-d5	73%		23-131%
321-60-8	2-Fluorobiphenyl	73%		24-120%
1718-51-0	Terphenyl-d14	87%		10-125%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-A-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-3	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8081B SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G77211.D	1	07/19/13	VDT	07/18/13	OP67517	G3G2651
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0079	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0023	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0023	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0019	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0017	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0029	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0016	ug/l	
72-54-8	4,4' -DDD	ND	0.010	0.0025	ug/l	
72-55-9	4,4' -DDE	ND	0.010	0.0017	ug/l	
50-29-3	4,4' -DDT	ND	0.010	0.0032	ug/l	
72-20-8	Endrin	ND	0.010	0.0020	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0019	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0037	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0047	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0028	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0020	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0026	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0041	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	60%		14-144%
877-09-8	Tetrachloro-m-xylene	58%		14-144%
2051-24-3	Decachlorobiphenyl	48%		10-128%
2051-24-3	Decachlorobiphenyl	48%		10-128%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-A-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-3	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G15385.D	1	07/19/13	JR	07/18/13	OP67516	G5G415
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.27	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.086	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.14	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.50	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.50	0.060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	58%		16-140%
877-09-8	Tetrachloro-m-xylene	63%		16-140%
2051-24-3	Decachlorobiphenyl	57%		10-125%
2051-24-3	Decachlorobiphenyl	53%		10-125%

ND = Not detected MDL - Method Detection Limit

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	SSSC-A-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-3	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	NJDEP EPH SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5Y13698.D	1	07/22/13	GAD	07/19/13	OP67570	G5Y404
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

NJDEP EPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	EPH (C9-C28)	0.290	0.050	0.032	mg/l	
	EPH (> C28-C40)	ND	0.050	0.015	mg/l	
	Total EPH (C9-C40)	0.290	0.050	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	126%		40-140%
3386-33-2	1-Chlorooctadecane	83%		40-140%

ND = Not detected MDL - Method Detection Limit

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N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID: SSSC-A-GW	Date Sampled: 07/17/13
Lab Sample ID: JB42423-3	Date Received: 07/17/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ	

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	< 200	200	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Antimony	< 6.0	6.0	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Arsenic	< 3.0	3.0	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Barium	< 200	200	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Calcium	55500	5000	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Chromium	< 10	10	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Cobalt	< 50	50	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Copper	< 10	10	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Iron	177	100	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Lead	< 3.0	3.0	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Magnesium	< 5000	5000	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Manganese	28.9	15	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	07/19/13	07/19/13	JW	SW846 7470A ¹ SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Potassium	< 10000	10000	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Selenium	< 10	10	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Silver	< 10	10	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Sodium	16000	10000	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Thallium	< 2.0	2.0	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Vanadium	< 50	50	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³
Zinc	37.3	20	ug/l	1	07/19/13	07/26/13	GT	SW846 6010C ² SW846 3010A ³

(1) Instrument QC Batch: MA31701

(2) Instrument QC Batch: MA31749

(3) Prep QC Batch: MP73296

(4) Prep QC Batch: MP73306

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SSSC-A-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-3	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	07/17/13 22:40	LS	SW846 7196A
Cyanide	< 0.010	0.010	mg/l	1	07/24/13 11:13	CV	EPA 335.4/LACHAT
pH ^a	6.24		su	1	07/17/13 20:31	AL	SM4500H+ B-11

(a) Sample received out of holding time for pH analysis.

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	FFSGC-A-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-4	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2C109899.D	1	07/20/13	DR	n/a	n/a	V2C5044
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	2.9	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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Report of Analysis

Page 2 of 2

Client Sample ID:	FFSGC-A-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-4	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		80-119%
17060-07-0	1,2-Dichloroethane-D4	108%		74-122%
2037-26-5	Toluene-D8	108%		80-120%
460-00-4	4-Bromofluorobenzene	104%		76-116%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

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Report of Analysis

Page 1 of 2

Client Sample ID:	FFSGC-A-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-4	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P22395.D	1	07/25/13	KH	07/19/13	OP67569	E3P983
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

ABN TCL List without PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.0	0.97	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.0	1.8	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.0	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.0	1.5	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	17	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	0.99	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.0	ug/l	
	3&4-Methylphenol	ND	2.0	0.93	ug/l	
88-75-5	2-Nitrophenol	ND	5.0	1.5	ug/l	
100-02-7	4-Nitrophenol	ND	10	5.2	ug/l	
108-95-2	Phenol	ND	2.0	1.3	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.0	0.94	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.0	1.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.0	1.3	ug/l	
98-86-2	Acetophenone	ND	2.0	0.29	ug/l	
1912-24-9	Atrazine	ND	5.0	0.49	ug/l	
100-52-7	Benzaldehyde	ND	5.0	3.3	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.36	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.29	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.30	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.30	ug/l	
106-47-8	4-Chloroaniline	ND	5.0	0.53	ug/l	
86-74-8	Carbazole	ND	1.0	0.36	ug/l	
105-60-2	Caprolactam	ND	2.0	0.69	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.31	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	0.45	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.31	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.43	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.46	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.0	0.36	ug/l	
132-64-9	Dibenzofuran	ND	5.0	0.27	ug/l	

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Report of Analysis

Page 2 of 2

Client Sample ID:	FFSGC-A-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-4	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List without PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
84-74-2	Di-n-butyl phthalate	ND	2.0	0.56	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	0.31	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.33	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.28	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.59	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.51	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	7.1	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.55	ug/l	
78-59-1	Isophorone	ND	2.0	0.27	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.38	ug/l	
88-74-4	2-Nitroaniline	ND	5.0	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.0	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.0	1.7	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.42	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.30	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.0	0.31	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.31	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	35%		10-110%
4165-62-2	Phenol-d5	24%		10-110%
118-79-6	2,4,6-Tribromophenol	107%		29-139%
4165-60-0	Nitrobenzene-d5	86%		28-131%
321-60-8	2-Fluorobiphenyl	85%		30-121%
1718-51-0	Terphenyl-d14	87%		16-147%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.23	4.7	ug/l	J
	system artifact/aldol-condensation	3.72	4.2	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

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J = Indicates an estimated value

B = Indicates analyte found in associated method blank

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Report of Analysis

Page 1 of 1

Client Sample ID: FFSGC-A-GW
Lab Sample ID: JB42423-4
Matrix: AQ - Ground Water
Method: SW846 8270D BY SIM SW846 3510C
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Date Sampled: 07/17/13**Date Received:** 07/17/13**Percent Solids:** n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4P2522.D	1	07/27/13	JL	07/19/13	OP67569A	E4P99
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
87-86-5	Pentachlorophenol	ND	0.30	0.10	ug/l	
83-32-9	Acenaphthene	ND	0.10	0.020	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.024	ug/l	
120-12-7	Anthracene	ND	0.10	0.020	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.012	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.012	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.10	0.010	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.10	0.016	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.10	0.015	ug/l	
218-01-9	Chrysene	ND	0.10	0.012	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.10	0.017	ug/l	
206-44-0	Fluoranthene	ND	0.10	0.013	ug/l	
86-73-7	Fluorene	ND	0.10	0.017	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.017	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.10	0.014	ug/l	
91-20-3	Naphthalene	ND	0.10	0.036	ug/l	
85-01-8	Phenanthrene	ND	0.10	0.021	ug/l	
129-00-0	Pyrene	ND	0.10	0.015	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	33%		10-110%
4165-62-2	Phenol-d5	23%		10-110%
118-79-6	2,4,6-Tribromophenol	93%		10-157%
4165-60-0	Nitrobenzene-d5	70%		23-131%
321-60-8	2-Fluorobiphenyl	66%		24-120%
1718-51-0	Terphenyl-d14	78%		10-125%

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Report of Analysis

Page 1 of 1

Client Sample ID:	FFSGC-A-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-4	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8081B SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G77212.D	1	07/19/13	VDT	07/18/13	OP67517	G3G2651
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0079	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0023	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0023	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0019	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0017	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0029	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0016	ug/l	
72-54-8	4,4' -DDD	ND	0.010	0.0025	ug/l	
72-55-9	4,4' -DDE	ND	0.010	0.0017	ug/l	
50-29-3	4,4' -DDT	ND	0.010	0.0032	ug/l	
72-20-8	Endrin	ND	0.010	0.0020	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0019	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0037	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0047	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0028	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0020	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0026	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0041	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	63%		14-144%
877-09-8	Tetrachloro-m-xylene	60%		14-144%
2051-24-3	Decachlorobiphenyl	21%		10-128%
2051-24-3	Decachlorobiphenyl	19%		10-128%

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

Page 1 of 1

Client Sample ID:	FFSGC-A-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-4	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G15386.D	1	07/19/13	JR	07/18/13	OP67516	G5G415
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.27	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.086	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.14	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.50	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.50	0.060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	64%		16-140%
877-09-8	Tetrachloro-m-xylene	73%		16-140%
2051-24-3	Decachlorobiphenyl	24%		10-125%
2051-24-3	Decachlorobiphenyl	25%		10-125%

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

Page 1 of 1

Client Sample ID:	FFSGC-A-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-4	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	NJDEP EPH SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4Y23135.D	1	07/24/13	KD	07/24/13	OP67641	G4Y736
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

NJDEP EPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	EPH (C9-C28)	0.202	0.050	0.032	mg/l	
	EPH (> C28-C40)	ND	0.050	0.015	mg/l	
	Total EPH (C9-C40)	0.202	0.050	0.015	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	87%		40-140%
3386-33-2	1-Chlorooctadecane	41%		40-140%

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

Page 1 of 1

Client Sample ID: FFSGC-A-GW**Lab Sample ID:** JB42423-4**Matrix:** AQ - Ground Water**Date Sampled:** 07/17/13**Date Received:** 07/17/13**Percent Solids:** n/a**Project:** Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	6560	200	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³
Antimony	< 6.0	6.0	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³
Arsenic	10.8	3.0	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³
Barium	< 200	200	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³
Beryllium	< 1.0	1.0	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³
Cadmium	< 3.0	3.0	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³
Calcium	20300	5000	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³
Chromium	16.7	10	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³
Cobalt	< 50	50	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³
Copper	< 10	10	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³
Iron	71600	100	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³
Lead	6.5	3.0	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³
Magnesium	6240	5000	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³
Manganese	399	15	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³
Mercury	< 0.20	0.20	ug/l	1	07/19/13	07/19/13 JW	SW846 7470A ¹	SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³
Potassium	< 10000	10000	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³
Selenium	< 10	10	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³
Silver	< 10	10	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³
Sodium	35900	10000	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³
Thallium	< 2.0	2.0	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³
Vanadium	< 50	50	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³
Zinc	< 20	20	ug/l	1	07/19/13	07/26/13 GT	SW846 6010C ²	SW846 3010A ³

(1) Instrument QC Batch: MA31701

(2) Instrument QC Batch: MA31749

(3) Prep QC Batch: MP73296

(4) Prep QC Batch: MP73306

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FFSGC-A-GW	Date Sampled:	07/17/13
Lab Sample ID:	JB42423-4	Date Received:	07/17/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	07/17/13 22:40	LS	SW846 7196A
Cyanide	< 0.010	0.010	mg/l	1	07/24/13 11:15	CV	EPA 335.4/LACHAT
pH ^a	6.07		su	1	07/17/13 20:46	AL	SM4500H+ B-11

(a) Sample received out of holding time for pH analysis.

RL = Reporting Limit

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

LABORATORY 2255 Route 130, Dayton, NJ 08810 Tel: 732-329-0200 FAX: 732-329-3499/3480 www.accutest.com		FED-EX Tracking # Bottle Order Control #	
Client / Reporting Information Company Name: U.S. Army Fort Monmouth Street Address: P.O. Box 148 City: Oceanport NJ State: 07754 Project Contact: Robert Younes ryounes@nichols.com Phone #: 732-380-7412 Fax #: 732-380-7412 Sampler(s) Name(s): Robert Younes 732-380-7412		Project Information Project Name: CWATP Street: Laboratory Road City: Tinton Falls State: NJ Billing Information (if different from Report to): Company Name: CBS, LLC Street Address: P.O. Box 148 City: Oceanport State: NJ Zip: 07757 Client Purchase Order #: 04612012-646 Project Manager: Wanda Green Attention: Helene Sachowitz	
Requested Analysis (see TEST CODE sheet) Matrix Codes DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL - Sludge SED - Sediment OI - Oil LIO - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB - Field Blank EB - Equipment Blank RB - Rinse Blank TB - Trip Blank		LAB USE ONLY B28 A20 C45 B3 986	
Accutest Sample # Field ID / Point of Collection 1 SSSC-B-GW 2 SSSC-E-GW 3 SSSC-A-GW 4 FFSGC-A-GW		Collection MECH/DI Vial # Date Time Sampled by Matrix # of bottles HCl NaOH HNO3 H2SO4 NONE DI Water MECH ENCORE 1 07/17/13 08:30 RY GW 13 5 1 1 6 2 07/17/13 09:30 RY GW 13 5 1 1 6 3 07/17/13 10:00 RY GW 13 5 1 1 6 4 07/17/13 10:30 RY GW 13 5 1 1 6	
Turnaround Time (Business days) ☐ Std. 15 Business Days ☒ Std. 10 Business Days (by Contract only) ☐ 10 Day RUSH ☐ 5 Day RUSH ☐ 3 Day EMERGENCY ☐ 2 Day EMERGENCY ☐ 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink		Data Deliverable Information ☐ Commercial "A" (Level 1) ☐ Commercial "B" (Level 2) ☐ FULLT1 (Level 3+4) ☒ NJ Reduced ☐ Commercial "C" ☐ NYASP Category A ☐ NYASP Category B ☐ State Forms ☐ EDD Format ☐ Other Commercial "A" = Results Only Commercial "B" = Results + QC Summary NJ Reduced = Results + QC Summary + Partial Raw data	
Relinquished by Sampler: 1 [Signature] Relinquished by Sampler: 3 Relinquished by: 5		Date Time: 1 07/17/13 13:53 Date Time: 3 Date Time: 5	
Relinquished By: 1 [Signature] Relinquished By: 3 Relinquished By: 5		Date Time: 1 1740 Date Time: 3 Date Time: 5	
Custody Seal # ☐ Intact ☐ Not Intact		Preserved when applicable ☐ On Ice ☒ Cooler Temp. 5.12 5.00	

JB42423: Chain of Custody

Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB42423 **Client:** _____ **Project:** _____
Date / Time Received: 7/17/2013 **Delivery Method:** _____ **Airbill #s:** _____
Cooler Temps (Initial/Adjusted): #1: (5.2/5.2); #2: (5.4/5.4); 0

Cooler Security

	Y or N			Y or N	
1. Custody Seals Present:	☒	☐	3. COC Present:	☒	☐
2. Custody Seals Intact:	☒	☐	4. Smpl Dates/Time OK	☒	☐

Cooler Temperature

	Y or N
1. Temp criteria achieved:	☒ ☐
2. Cooler temp verification:	IR Gun
3. Cooler media:	Ice (Bag)
4. No. Coolers:	2

Quality Control Preservation

	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☒	☐
2. Trip Blank listed on COC:	☐		☒	☐
3. Samples preserved properly:	☒		☐	
4. VOCs headspace free:	☒		☐	☐

Comments

Sample Integrity - Documentation

	Y	or	N
1. Sample labels present on bottles:	☒		☐
2. Container labeling complete:	☒		☐
3. Sample container label / COC agree:	☒		☐

Sample Integrity - Condition

	Y	or	N
1. Sample recvd within HT:	☒		☐
2. All containers accounted for:	☒		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions

	Y	or	N	N/A
1. Analysis requested is clear:	☒		☐	
2. Bottles received for unspecified tests	☐		☒	
3. Sufficient volume recvd for analysis:	☒		☐	
4. Compositing instructions clear:	☐		☐	☒
5. Filtering instructions clear:	☐		☐	☒



09/23/13

Technical Report for

Fort Monmouth Environmental Testing Lab.

Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
DK6/2012-646

Accutest Job Number: JB43595

Sampling Date: 07/31/13

Report to:

Fort Monmouth Environmental Testing Lab.

RYouhas@chenega.com

ATTN: Rob Youhas

Total number of pages in report: **41**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads 'Nancy F. Cole'.

Nancy Cole
Laboratory Director

Client Service contact: Kristin Beebe 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC,
OH VAP (CL0056), PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

Fort Monmouth Environmental Testing Lab.

Job No: JB43595

Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
Project No: DK6/2012-646

Sample Number	Collected			Received	Matrix		Client Sample ID
	Date	Time	By		Code	Type	
JB43595-1	07/31/13	08:10	RY	07/31/13	AQ	Ground Water	SSEH-A-GW
JB43595-2	07/31/13	08:30	RY	07/31/13	AQ	Ground Water	SUST-A-GW
JB43595-3	07/31/13	09:30	RY	07/31/13	AQ	Ground Water	SUST-B-GW

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Fort Monmouth Environmental Testing Lab.

Job No JB43595

Site: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, F

Report Date 8/14/2013 6:31:26 PM

On 07/31/2013, 3 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 5.4 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB43595 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.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ

Batch ID: VO6045

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB43672-1MS, JB43672-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ

Batch ID: OP67983

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB43794-5MS, JB43794-5MSD were used as the QC samples indicated.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ

Batch ID: OP67983A

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB43794-11MS, JB43794-11MSD were used as the QC samples indicated.

Extractables by GC By Method NJDEP EPH

Matrix: AQ

Batch ID: OP67929

- All samples were extracted within the recommended method holding time.
- Sample(s) JB43582-2DUP, JB43595-2MS, JB43595-2MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8081B

Matrix: AQ

Batch ID: OP67897

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB43605-12MS, JB43605-12MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8082A

Matrix: AQ

Batch ID: OP67898

- All samples were extracted within the recommended method holding time.
- Sample(s) JB43617-1MS, JB43617-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010C

Matrix: AQ

Batch ID: MP73600

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB43564-4MS, JB43564-4MSD, JB43564-4SDL were used as the QC samples for metals.
- RPD(s) for Serial Dilution for Aluminum, Beryllium, Cadmium, Cobalt, Iron, Lead, Nickel, Selenium, Vanadium, Zinc are outside control limits. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP73600-SD1 for Calcium: Serial dilution indicates possible matrix interference.

Metals By Method SW846 7470A

Matrix: AQ

Batch ID: MP73651

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB43758-1MS, JB43758-1MSD were used as the QC samples for metals.

Wet Chemistry By Method EPA 335.4/LACHAT

Matrix: AQ

Batch ID: GP73715

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB43475-1DUP, JB43475-1MS were used as the QC samples for Cyanide.
- Matrix Spike Recovery(s) for Cyanide are outside control limits. Spike recovery indicates possible matrix interference.

Wet Chemistry By Method SM4500H+ B-11

Matrix: AQ

Batch ID: R125196

- The data for SM4500H+ B-11 meets quality control requirements.
- JB43595-1 for pH: Sample received out of holding time for pH analysis.
- JB43595-2 for pH: Sample received out of holding time for pH analysis.
- JB43595-3 for pH: Sample received out of holding time for pH analysis.

Wet Chemistry By Method SW846 7196A

Matrix: AQ

Batch ID: GN89061

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB43595-1DUP, JB43595-1MS were used as the QC samples for Chromium, Hexavalent.

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

Summary of Hits

Page 1 of 1

Job Number: JB43595

Account: Fort Monmouth Environmental Testing Lab.

Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Collected: 07/31/13

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JB43595-1 SSEH-A-GW

Total TIC, Semi-Volatile	6.5 J				ug/l	
Aluminum	16300	200			ug/l	SW846 6010C
Arsenic	15.0	3.0			ug/l	SW846 6010C
Beryllium	1.6	1.0			ug/l	SW846 6010C
Calcium	5320	5000			ug/l	SW846 6010C
Chromium	213	10			ug/l	SW846 6010C
Iron	41000	100			ug/l	SW846 6010C
Lead	12.1	3.0			ug/l	SW846 6010C
Magnesium	5280	5000			ug/l	SW846 6010C
Manganese	54.5	15			ug/l	SW846 6010C
Potassium	10400	10000			ug/l	SW846 6010C
Vanadium	111	50			ug/l	SW846 6010C
Zinc	56.2	20			ug/l	SW846 6010C
Cyanide	0.016	0.010			mg/l	EPA 335.4/LACHAT
pH ^a	7.03				su	SM4500H+ B-11

JB43595-2 SUST-A-GW

bis(2-Ethylhexyl)phthalate	1.6 J	2.2	0.65		ug/l	SW846 8270D
Total TIC, Semi-Volatile	5.3 J				ug/l	
Aluminum	6130	200			ug/l	SW846 6010C
Arsenic	12.5	3.0			ug/l	SW846 6010C
Beryllium	1.0	1.0			ug/l	SW846 6010C
Calcium	15600	5000			ug/l	SW846 6010C
Chromium	82.5	10			ug/l	SW846 6010C
Iron	25900	100			ug/l	SW846 6010C
Lead	7.6	3.0			ug/l	SW846 6010C
Manganese	99.3	15			ug/l	SW846 6010C
Zinc	63.3	20			ug/l	SW846 6010C
pH ^a	6.89				su	SM4500H+ B-11

JB43595-3 SUST-B-GW

Total TIC, Semi-Volatile	7.7 J				ug/l	
Aluminum	1500	200			ug/l	SW846 6010C
Calcium	14100	5000			ug/l	SW846 6010C
Chromium	20.6	10			ug/l	SW846 6010C
Iron	8010	100			ug/l	SW846 6010C
Manganese	78.7	15			ug/l	SW846 6010C
Zinc	22.5	20			ug/l	SW846 6010C
pH ^a	6.71				su	SM4500H+ B-11

(a) Sample received out of holding time for pH analysis.

Sample Results

Report of Analysis

Report of Analysis

Page 1 of 2

Client Sample ID:	SSEH-A-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-1	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O136932.D	1	08/06/13	VC	n/a	n/a	VO6045
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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Report of Analysis

Page 2 of 2

Client Sample ID:	SSEH-A-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-1	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		79-117%
17060-07-0	1,2-Dichloroethane-D4	90%		72-123%
2037-26-5	Toluene-D8	94%		82-118%
460-00-4	4-Bromofluorobenzene	85%		75-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

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Report of Analysis

Page 1 of 2

Client Sample ID:	SSEH-A-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-1	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z83240.D	1	08/07/13	OYA	08/06/13	OP67983	EZ4199
Run #2							

Run #	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN TCL List without PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.3	1.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.3	1.9	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.3	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.3	1.6	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	18	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	21	1.1	ug/l	
95-48-7	2-Methylphenol	ND	2.1	1.1	ug/l	
	3&4-Methylphenol	ND	2.1	0.98	ug/l	
88-75-5	2-Nitrophenol	ND	5.3	1.6	ug/l	
100-02-7	4-Nitrophenol	ND	11	5.5	ug/l	
108-95-2	Phenol	ND	2.1	1.4	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.3	1.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.3	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.3	1.4	ug/l	
98-86-2	Acetophenone	ND	2.1	0.30	ug/l	
1912-24-9	Atrazine	ND	5.3	0.52	ug/l	
100-52-7	Benzaldehyde	ND	5.3	3.5	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.1	0.38	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.1	0.31	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.32	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.1	0.32	ug/l	
106-47-8	4-Chloroaniline	ND	5.3	0.56	ug/l	
86-74-8	Carbazole	ND	1.1	0.38	ug/l	
105-60-2	Caprolactam	ND	2.1	0.73	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.1	0.33	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.1	0.33	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.1	0.48	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.1	0.33	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.1	0.45	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.1	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.38	ug/l	
132-64-9	Dibenzofuran	ND	5.3	0.28	ug/l	

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Report of Analysis

Page 2 of 2

Client Sample ID:	SSEH-A-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-1	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List without PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
84-74-2	Di-n-butyl phthalate	ND	2.1	0.59	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.1	0.33	ug/l	
84-66-2	Diethyl phthalate	ND	2.1	0.35	ug/l	
131-11-3	Dimethyl phthalate	ND	2.1	0.30	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.62	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.54	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	7.6	ug/l	
67-72-1	Hexachloroethane	ND	2.1	0.59	ug/l	
78-59-1	Isophorone	ND	2.1	0.29	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.41	ug/l	
88-74-4	2-Nitroaniline	ND	5.3	1.2	ug/l	
99-09-2	3-Nitroaniline	ND	5.3	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.3	1.8	ug/l	
98-95-3	Nitrobenzene	ND	2.1	0.45	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.1	0.32	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.32	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.1	0.32	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	32%		10-110%
4165-62-2	Phenol-d5	23%		10-110%
118-79-6	2,4,6-Tribromophenol	67%		29-139%
4165-60-0	Nitrobenzene-d5	53%		28-131%
321-60-8	2-Fluorobiphenyl	58%		30-121%
1718-51-0	Terphenyl-d14	82%		16-147%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	15.51	6.5	ug/l	J
	Total TIC, Semi-Volatile		6.5	ug/l	J
	Total Alkanes		0	ug/l	

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSEH-A-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-1	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M43578.D	1	08/08/13	NAP	08/06/13	OP67983A	E4M1810
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
87-86-5	Pentachlorophenol	ND	0.32	0.11	ug/l	
83-32-9	Acenaphthene	ND	0.11	0.022	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.025	ug/l	
120-12-7	Anthracene	ND	0.11	0.022	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.11	0.012	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.013	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.11	0.011	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.017	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.016	ug/l	
218-01-9	Chrysene	ND	0.11	0.013	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.018	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.014	ug/l	
86-73-7	Fluorene	ND	0.11	0.018	ug/l	
118-74-1	Hexachlorobenzene	ND	0.021	0.018	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.015	ug/l	
91-20-3	Naphthalene	ND	0.11	0.038	ug/l	
85-01-8	Phenanthrene	ND	0.11	0.022	ug/l	
129-00-0	Pyrene	ND	0.11	0.016	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	37%		10-110%
4165-62-2	Phenol-d5	27%		10-110%
118-79-6	2,4,6-Tribromophenol	60%		10-157%
4165-60-0	Nitrobenzene-d5	50%		23-131%
321-60-8	2-Fluorobiphenyl	54%		24-120%
1718-51-0	Terphenyl-d14	61%		10-125%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSEH-A-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-1	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8081B SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G2737.D	1	08/02/13	DS	08/02/13	OP67897	G6G91
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0079	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0023	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0023	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0019	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0017	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0029	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0021	ug/l	
57-74-9	Chlordane (alpha and gamma)	ND	0.010	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0016	ug/l	
72-54-8	4,4'-DDD	ND	0.010	0.0025	ug/l	
72-55-9	4,4'-DDE	ND	0.010	0.0017	ug/l	
50-29-3	4,4'-DDT	ND	0.010	0.0032	ug/l	
72-20-8	Endrin	ND	0.010	0.0020	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0019	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0037	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0047	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0028	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0020	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0026	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0041	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	73%		14-144%
877-09-8	Tetrachloro-m-xylene	82%		14-144%
2051-24-3	Decachlorobiphenyl	39%		10-128%
2051-24-3	Decachlorobiphenyl	45%		10-128%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSEH-A-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-1	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX137287.D	1	08/03/13	JR	08/02/13	OP67898	GXX4737
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.27	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.086	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.14	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.50	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.50	0.060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	79%		16-140%
877-09-8	Tetrachloro-m-xylene	83%		16-140%
2051-24-3	Decachlorobiphenyl	47%		10-125%
2051-24-3	Decachlorobiphenyl	49%		10-125%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSEH-A-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-1	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	NJDEP EPH SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5Z10461.D	1	08/05/13	GAD	08/04/13	OP67929	G5Z341
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

NJDEP EPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	EPH (C9-C28)	ND	0.053	0.034	mg/l	
	EPH (> C28-C40)	ND	0.053	0.016	mg/l	
	Total EPH (C9-C40)	ND	0.053	0.016	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	124%		40-140%
3386-33-2	1-Chlorooctadecane	63%		40-140%

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Report of Analysis

Page 1 of 1

Client Sample ID: SSEH-A-GW	Date Sampled: 07/31/13
Lab Sample ID: JB43595-1	Date Received: 07/31/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ	

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	16300	200	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Antimony	< 6.0	6.0	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Arsenic	15.0	3.0	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Barium	< 200	200	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Beryllium	1.6	1.0	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Cadmium	< 3.0	3.0	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Calcium	5320	5000	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Chromium	213	10	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Cobalt	< 50	50	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Copper	< 10	10	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Iron	41000	100	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Lead	12.1	3.0	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Magnesium	5280	5000	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Manganese	54.5	15	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Mercury	< 0.20	0.20	ug/l	1	08/05/13	08/05/13 DP	SW846 7470A ¹	SW846 7470A ⁵
Nickel	< 10	10	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Potassium	10400	10000	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Selenium	< 10	10	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Silver	< 10	10	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Sodium	< 10000	10000	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Thallium	< 2.0	2.0	ug/l	1	08/01/13	08/14/13 GT	SW846 6010C ³	SW846 3010A ⁴
Vanadium	111	50	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Zinc	56.2	20	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴

(1) Instrument QC Batch: MA31818

(2) Instrument QC Batch: MA31826

(3) Instrument QC Batch: MA31884

(4) Prep QC Batch: MP73600

(5) Prep QC Batch: MP73651

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SSEH-A-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-1	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	07/31/13 23:19	CW	SW846 7196A
Cyanide	0.016	0.010	mg/l	1	08/05/13 11:26	CV	EPA 335.4/LACHAT
pH ^a	7.03		su	1	07/31/13 16:37	AL	SM4500H+ B-11

(a) Sample received out of holding time for pH analysis.

RL = Reporting Limit

Report of Analysis

Page 1 of 2

Client Sample ID:	SUST-A-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-2	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O136931.D	1	08/06/13	VC	n/a	n/a	VO6045
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Page 2 of 2

Client Sample ID:	SUST-A-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-2	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		79-117%
17060-07-0	1,2-Dichloroethane-D4	91%		72-123%
2037-26-5	Toluene-D8	94%		82-118%
460-00-4	4-Bromofluorobenzene	84%		75-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

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Report of Analysis

Page 1 of 2

Client Sample ID:	SUST-A-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-2	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z83241.D	1	08/07/13	OYA	08/06/13	OP67983	EZ4199
Run #2							

Run #	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

ABN TCL List without PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.6	1.1	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.6	2.0	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.6	1.3	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.6	1.7	ug/l	
51-28-5	2,4-Dinitrophenol	ND	22	18	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	22	1.1	ug/l	
95-48-7	2-Methylphenol	ND	2.2	1.2	ug/l	
	3&4-Methylphenol	ND	2.2	1.0	ug/l	
88-75-5	2-Nitrophenol	ND	5.6	1.7	ug/l	
100-02-7	4-Nitrophenol	ND	11	5.8	ug/l	
108-95-2	Phenol	ND	2.2	1.4	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.6	1.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.6	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.6	1.4	ug/l	
98-86-2	Acetophenone	ND	2.2	0.32	ug/l	
1912-24-9	Atrazine	ND	5.6	0.54	ug/l	
100-52-7	Benzaldehyde	ND	5.6	3.6	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.2	0.40	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.2	0.32	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.34	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.2	0.33	ug/l	
106-47-8	4-Chloroaniline	ND	5.6	0.59	ug/l	
86-74-8	Carbazole	ND	1.1	0.40	ug/l	
105-60-2	Caprolactam	ND	2.2	0.77	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.2	0.34	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.2	0.34	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.2	0.50	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.2	0.35	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.2	0.47	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.2	0.51	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.6	0.40	ug/l	
132-64-9	Dibenzofuran	ND	5.6	0.29	ug/l	

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Report of Analysis

Page 2 of 2

Client Sample ID:	SUST-A-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-2	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List without PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
84-74-2	Di-n-butyl phthalate	ND	2.2	0.62	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.2	0.34	ug/l	
84-66-2	Diethyl phthalate	ND	2.2	0.36	ug/l	
131-11-3	Dimethyl phthalate	ND	2.2	0.31	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	1.6	2.2	0.65	ug/l	J
87-68-3	Hexachlorobutadiene	ND	1.1	0.57	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	7.9	ug/l	
67-72-1	Hexachloroethane	ND	2.2	0.61	ug/l	
78-59-1	Isophorone	ND	2.2	0.30	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.43	ug/l	
88-74-4	2-Nitroaniline	ND	5.6	1.2	ug/l	
99-09-2	3-Nitroaniline	ND	5.6	1.4	ug/l	
100-01-6	4-Nitroaniline	ND	5.6	1.8	ug/l	
98-95-3	Nitrobenzene	ND	2.2	0.47	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.2	0.34	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.6	0.34	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.2	0.34	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	24%		10-110%
4165-62-2	Phenol-d5	22%		10-110%
118-79-6	2,4,6-Tribromophenol	55%		29-139%
4165-60-0	Nitrobenzene-d5	57%		28-131%
321-60-8	2-Fluorobiphenyl	58%		30-121%
1718-51-0	Terphenyl-d14	92%		16-147%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	15.51	5.3	ug/l	J
	Total TIC, Semi-Volatile		5.3	ug/l	J
	Total Alkanes		0	ug/l	

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Report of Analysis

Page 1 of 1

Client Sample ID:	SUST-A-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-2	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M43579.D	1	08/08/13	NAP	08/06/13	OP67983A	E4M1810
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
87-86-5	Pentachlorophenol	ND	0.33	0.11	ug/l	
83-32-9	Acenaphthene	ND	0.11	0.023	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.026	ug/l	
120-12-7	Anthracene	ND	0.11	0.023	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.11	0.013	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.014	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.11	0.011	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.017	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.016	ug/l	
218-01-9	Chrysene	ND	0.11	0.013	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.018	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.015	ug/l	
86-73-7	Fluorene	ND	0.11	0.019	ug/l	
118-74-1	Hexachlorobenzene	ND	0.022	0.018	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.016	ug/l	
91-20-3	Naphthalene	ND	0.11	0.039	ug/l	
85-01-8	Phenanthrene	ND	0.11	0.023	ug/l	
129-00-0	Pyrene	ND	0.11	0.017	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	25%		10-110%
4165-62-2	Phenol-d5	24%		10-110%
118-79-6	2,4,6-Tribromophenol	46%		10-157%
4165-60-0	Nitrobenzene-d5	48%		23-131%
321-60-8	2-Fluorobiphenyl	49%		24-120%
1718-51-0	Terphenyl-d14	65%		10-125%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SUST-A-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-2	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8081B SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G2742.D	1	08/02/13	DS	08/02/13	OP67897	G6G91
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0082	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0024	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0024	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0019	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0018	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0030	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0022	ug/l	
57-74-9	Chlordane (alpha and gamma)	ND	0.010	0.0022	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0017	ug/l	
72-54-8	4,4'-DDD	ND	0.010	0.0026	ug/l	
72-55-9	4,4'-DDE	ND	0.010	0.0018	ug/l	
50-29-3	4,4'-DDT	ND	0.010	0.0033	ug/l	
72-20-8	Endrin	ND	0.010	0.0021	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0020	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0038	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0049	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0029	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0021	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0023	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0027	ug/l	
72-43-5	Methoxychlor	ND	0.021	0.0042	ug/l	
8001-35-2	Toxaphene	ND	0.26	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	80%		14-144%
877-09-8	Tetrachloro-m-xylene	92%		14-144%
2051-24-3	Decachlorobiphenyl	64%		10-128%
2051-24-3	Decachlorobiphenyl	73%		10-128%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SUST-A-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-2	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX137288.D	1	08/03/13	JR	08/02/13	OP67898	GXX4737
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.52	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.52	0.28	ug/l	
11141-16-5	Aroclor 1232	ND	0.52	0.40	ug/l	
53469-21-9	Aroclor 1242	ND	0.52	0.090	ug/l	
12672-29-6	Aroclor 1248	ND	0.52	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.52	0.15	ug/l	
11096-82-5	Aroclor 1260	ND	0.52	0.22	ug/l	
11100-14-4	Aroclor 1268	ND	0.52	0.14	ug/l	
37324-23-5	Aroclor 1262	ND	0.52	0.063	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	86%		16-140%
877-09-8	Tetrachloro-m-xylene	90%		16-140%
2051-24-3	Decachlorobiphenyl	75%		10-125%
2051-24-3	Decachlorobiphenyl	88%		10-125%

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

Page 1 of 1

Client Sample ID:	SUST-A-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-2	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	NJDEP EPH SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5Z10462.D	1	08/05/13	GAD	08/04/13	OP67929	G5Z341
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

NJDEP EPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	EPH (C9-C28)	ND	0.053	0.034	mg/l	
	EPH (> C28-C40)	ND	0.053	0.016	mg/l	
	Total EPH (C9-C40)	ND	0.053	0.016	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	116%		40-140%
3386-33-2	1-Chlorooctadecane	79%		40-140%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SUST-A-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-2	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	6130	200	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Antimony	< 6.0	6.0	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Arsenic	12.5	3.0	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Barium	< 200	200	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Beryllium	1.0	1.0	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Cadmium	< 3.0	3.0	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Calcium	15600	5000	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Chromium	82.5	10	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Cobalt	< 50	50	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Copper	< 10	10	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Iron	25900	100	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Lead	7.6	3.0	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Magnesium	< 5000	5000	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Manganese	99.3	15	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Mercury	< 0.20	0.20	ug/l	1	08/05/13	08/05/13 DP	SW846 7470A ¹	SW846 7470A ⁵
Nickel	< 10	10	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Potassium	< 10000	10000	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Selenium	< 10	10	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Silver	< 10	10	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Sodium	< 10000	10000	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Thallium	< 2.0	2.0	ug/l	1	08/01/13	08/14/13 GT	SW846 6010C ³	SW846 3010A ⁴
Vanadium	< 50	50	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Zinc	63.3	20	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴

(1) Instrument QC Batch: MA31818

(2) Instrument QC Batch: MA31826

(3) Instrument QC Batch: MA31884

(4) Prep QC Batch: MP73600

(5) Prep QC Batch: MP73651

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SUST-A-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-2	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	07/31/13 23:19	CW	SW846 7196A
Cyanide	< 0.010	0.010	mg/l	1	08/05/13 11:27	CV	EPA 335.4/LACHAT
pH ^a	6.89		su	1	07/31/13 16:42	AL	SM4500H+ B-11

(a) Sample received out of holding time for pH analysis.

RL = Reporting Limit

Report of Analysis

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Client Sample ID:	SUST-B-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-3	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O136930.D	1	08/06/13	VC	n/a	n/a	VO6045
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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Report of Analysis

Page 2 of 2

Client Sample ID:	SUST-B-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-3	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		79-117%
17060-07-0	1,2-Dichloroethane-D4	89%		72-123%
2037-26-5	Toluene-D8	93%		82-118%
460-00-4	4-Bromofluorobenzene	83%		75-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

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Report of Analysis

Page 1 of 2

Client Sample ID:	SUST-B-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-3	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z83242.D	1	08/07/13	OYA	08/06/13	OP67983	EZ4199
Run #2							

Run #	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

ABN TCL List without PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.3	1.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.3	1.9	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.3	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.3	1.6	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	18	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	21	1.1	ug/l	
95-48-7	2-Methylphenol	ND	2.1	1.1	ug/l	
	3&4-Methylphenol	ND	2.1	0.98	ug/l	
88-75-5	2-Nitrophenol	ND	5.3	1.6	ug/l	
100-02-7	4-Nitrophenol	ND	11	5.5	ug/l	
108-95-2	Phenol	ND	2.1	1.4	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.3	1.0	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.3	1.7	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.3	1.4	ug/l	
98-86-2	Acetophenone	ND	2.1	0.30	ug/l	
1912-24-9	Atrazine	ND	5.3	0.52	ug/l	
100-52-7	Benzaldehyde	ND	5.3	3.5	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.1	0.38	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.1	0.31	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.32	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.1	0.32	ug/l	
106-47-8	4-Chloroaniline	ND	5.3	0.56	ug/l	
86-74-8	Carbazole	ND	1.1	0.38	ug/l	
105-60-2	Caprolactam	ND	2.1	0.73	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.1	0.33	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.1	0.33	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.1	0.48	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.1	0.33	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.1	0.45	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.1	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.38	ug/l	
132-64-9	Dibenzofuran	ND	5.3	0.28	ug/l	

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Report of Analysis

Page 2 of 2

Client Sample ID:	SUST-B-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-3	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List without PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
84-74-2	Di-n-butyl phthalate	ND	2.1	0.59	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.1	0.33	ug/l	
84-66-2	Diethyl phthalate	ND	2.1	0.35	ug/l	
131-11-3	Dimethyl phthalate	ND	2.1	0.30	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.62	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.54	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	7.6	ug/l	
67-72-1	Hexachloroethane	ND	2.1	0.59	ug/l	
78-59-1	Isophorone	ND	2.1	0.29	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.41	ug/l	
88-74-4	2-Nitroaniline	ND	5.3	1.2	ug/l	
99-09-2	3-Nitroaniline	ND	5.3	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.3	1.8	ug/l	
98-95-3	Nitrobenzene	ND	2.1	0.45	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.1	0.32	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.32	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.1	0.32	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		10-110%
4165-62-2	Phenol-d5	31%		10-110%
118-79-6	2,4,6-Tribromophenol	88%		29-139%
4165-60-0	Nitrobenzene-d5	82%		28-131%
321-60-8	2-Fluorobiphenyl	83%		30-121%
1718-51-0	Terphenyl-d14	104%		16-147%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	15.51	7.7	ug/l	J
	Total TIC, Semi-Volatile		7.7	ug/l	J
	Total Alkanes		0	ug/l	

ND = Not detected MDL - Method Detection Limit

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Report of Analysis

Page 1 of 1

Client Sample ID:	SUST-B-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-3	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4M43580.D	1	08/08/13	NAP	08/06/13	OP67983A	E4M1810
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
87-86-5	Pentachlorophenol	ND	0.32	0.11	ug/l	
83-32-9	Acenaphthene	ND	0.11	0.022	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.025	ug/l	
120-12-7	Anthracene	ND	0.11	0.022	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.11	0.012	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.013	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.11	0.011	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.017	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.016	ug/l	
218-01-9	Chrysene	ND	0.11	0.013	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.018	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.014	ug/l	
86-73-7	Fluorene	ND	0.11	0.018	ug/l	
118-74-1	Hexachlorobenzene	ND	0.021	0.018	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.015	ug/l	
91-20-3	Naphthalene	ND	0.11	0.038	ug/l	
85-01-8	Phenanthrene	ND	0.11	0.022	ug/l	
129-00-0	Pyrene	ND	0.11	0.016	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	47%		10-110%
4165-62-2	Phenol-d5	33%		10-110%
118-79-6	2,4,6-Tribromophenol	75%		10-157%
4165-60-0	Nitrobenzene-d5	66%		23-131%
321-60-8	2-Fluorobiphenyl	72%		24-120%
1718-51-0	Terphenyl-d14	76%		10-125%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SUST-B-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-3	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8081B SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6G2743.D	1	08/02/13	DS	08/02/13	OP67897	G6G91
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0079	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0023	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0023	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0019	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0017	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0029	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0021	ug/l	
57-74-9	Chlordane (alpha and gamma)	ND	0.010	0.0021	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0016	ug/l	
72-54-8	4,4' -DDD	ND	0.010	0.0025	ug/l	
72-55-9	4,4' -DDE	ND	0.010	0.0017	ug/l	
50-29-3	4,4' -DDT	ND	0.010	0.0032	ug/l	
72-20-8	Endrin	ND	0.010	0.0020	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0019	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0037	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0047	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0028	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0020	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0022	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0026	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0041	ug/l	
8001-35-2	Toxaphene	ND	0.25	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	74%		14-144%
877-09-8	Tetrachloro-m-xylene	84%		14-144%
2051-24-3	Decachlorobiphenyl	51%		10-128%
2051-24-3	Decachlorobiphenyl	60%		10-128%

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

Page 1 of 1

Client Sample ID:	SUST-B-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-3	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	XX137289.D	1	08/03/13	JR	08/02/13	OP67898	GXX4737
Run #2							

	Initial Volume	Final Volume
Run #1	1000 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.50	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.50	0.27	ug/l	
11141-16-5	Aroclor 1232	ND	0.50	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.50	0.086	ug/l	
12672-29-6	Aroclor 1248	ND	0.50	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.50	0.14	ug/l	
11096-82-5	Aroclor 1260	ND	0.50	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.50	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.50	0.060	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	81%		16-140%
877-09-8	Tetrachloro-m-xylene	85%		16-140%
2051-24-3	Decachlorobiphenyl	66%		10-125%
2051-24-3	Decachlorobiphenyl	68%		10-125%

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

Page 1 of 1

Client Sample ID:	SUST-B-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-3	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	NJDEP EPH SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5Z10463.D	1	08/05/13	GAD	08/04/13	OP67929	G5Z341
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

NJDEP EPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	EPH (C9-C28)	ND	0.056	0.036	mg/l	
	EPH (> C28-C40)	ND	0.056	0.017	mg/l	
	Total EPH (C9-C40)	ND	0.056	0.017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	104%		40-140%
3386-33-2	1-Chlorooctadecane	96%		40-140%

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

Page 1 of 1

Client Sample ID: SUST-B-GW	Date Sampled: 07/31/13
Lab Sample ID: JB43595-3	Date Received: 07/31/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ	

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	1500	200	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Antimony	< 6.0	6.0	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Arsenic	< 3.0	3.0	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Barium	< 200	200	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Beryllium	< 1.0	1.0	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Cadmium	< 3.0	3.0	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Calcium	14100	5000	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Chromium	20.6	10	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Cobalt	< 50	50	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Copper	< 10	10	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Iron	8010	100	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Lead	< 3.0	3.0	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Magnesium	< 5000	5000	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Manganese	78.7	15	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Mercury	< 0.20	0.20	ug/l	1	08/05/13	08/05/13 DP	SW846 7470A ¹	SW846 7470A ⁵
Nickel	< 10	10	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Potassium	< 10000	10000	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Selenium	< 10	10	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Silver	< 10	10	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Sodium	< 10000	10000	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Thallium	< 2.0	2.0	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ³	SW846 3010A ⁴
Vanadium	< 50	50	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴
Zinc	22.5	20	ug/l	1	08/01/13	08/07/13 GT	SW846 6010C ²	SW846 3010A ⁴

(1) Instrument QC Batch: MA31818

(2) Instrument QC Batch: MA31826

(3) Instrument QC Batch: MA31842

(4) Prep QC Batch: MP73600

(5) Prep QC Batch: MP73651

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SUST-B-GW	Date Sampled:	07/31/13
Lab Sample ID:	JB43595-3	Date Received:	07/31/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	07/31/13 23:19	CW	SW846 7196A
Cyanide	< 0.010	0.010	mg/l	1	08/05/13 11:31	CV	EPA 335.4/LACHAT
pH ^a	6.71		su	1	07/31/13 16:47	AL	SM4500H+ B-11

(a) Sample received out of holding time for pH analysis.

RL = Reporting Limit

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

[illegible]

JB43595: Chain of Custody

Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB43595 **Client:** _____ **Project:** _____
Date / Time Received: 7/31/2013 **Delivery Method:** _____ **Airbill #s:** _____
Cooler Temps (Initial/Adjusted): #1: (5.2/5.2); #2: (5.4/5.4); 0

Cooler Security
Y or N

1. Custody Seals Present: ☒ ☐	3. COC Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐	4. Smpl Dates/Time OK: ☒ ☐

Cooler Temperature
Y or N

1. Temp criteria achieved: ☒ ☐	
2. Cooler temp verification: _____	IR Gun
3. Cooler media: _____	Ice (Bag)
4. No. Coolers: _____	3

Quality Control Preservation
Y or N N/A

1. Trip Blank present / cooler: ☐ ☒ ☐	
2. Trip Blank listed on COC: ☐ ☒ ☐	
3. Samples preserved properly: ☒ ☐ ☐	
4. VOCs headspace free: ☒ ☐ ☐	

Comments

Sample Integrity - Documentation
Y or N

1. Sample labels present on bottles: ☒ ☐	
2. Container labeling complete: ☒ ☐	
3. Sample container label / COC agree: ☒ ☐	

Sample Integrity - Condition
Y or N

1. Sample recvd within HT: ☒ ☐	
2. All containers accounted for: ☒ ☐	
3. Condition of sample: _____	Intact

Sample Integrity - Instructions
Y or N N/A

1. Analysis requested is clear: ☒ ☐	
2. Bottles received for unspecified tests: ☐ ☒	
3. Sufficient volume recvd for analysis: ☒ ☐	
4. Compositing instructions clear: ☐ ☐	☒
5. Filtering instructions clear: ☐ ☐	☒



09/11/13

Technical Report for

Fort Monmouth Environmental Testing Lab.

Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
CWATP

Accutest Job Number: JB43803

Sampling Date: 08/02/13

Report to:

Fort Monmouth Environmental Testing Lab.

RYouhas@chenega.com

ATTN: Rob Youhas

Total number of pages in report: **41**



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

A handwritten signature in black ink that reads 'Nancy F. Cole'.

Nancy Cole
Laboratory Director

Client Service contact: Kristin Beebe 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC,
OH VAP (CL0056), PA, RI, SC, TN, VA, WV

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Test results relate only to samples analyzed.

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Sample Summary

Fort Monmouth Environmental Testing Lab.

Job No: JB43803

Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Project No: CWATP

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
JB43803-1	08/02/13	08:30 RY	08/02/13	AQ	Ground Water	SSTA-E-GW
JB43803-2	08/02/13	09:10 RY	08/02/13	SO	Soil	FGS-A (6.0-6.5)
JB43803-3	08/02/13	09:30 RY	08/02/13	AQ	Ground Water	FGS-A-GW
JB43803-4	08/02/13	10:00 RY	08/02/13	AQ	Ground Water	FGS-B-GW
JB43803-5	08/02/13	10:30 RY	08/02/13	AQ	Ground Water	FGS-C-GW
JB43803-6	08/02/13	11:00 RY	08/02/13	AQ	Ground Water	FGS-D-GW
JB43803-7	08/02/13	11:30 RY	08/02/13	AQ	Ground Water	FGS-E-GW

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Fort Monmouth Environmental Testing Lab.

Job No: JB43803

Site: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, F

Report Date 8/18/2013 4:45:39 PM

On 08/02/2013, 7 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 1.8 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB43803 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.

Volatiles by GCMS By Method SW846 8260B

Matrix: AQ

Batch ID: V2B5018

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB43593-8MS, JB43593-8MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Styrene are outside control limits.
- V2B5018-BS for Styrene: High percent recoveries and no associated positive found in the QC batch.

Matrix: SO

Batch ID: VI7542

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB43715-2MS, JB43715-2MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for 1,4-Dioxane are outside control limits. Outside control limits due to matrix interference.
- RPD(s) for MSD for 1,4-Dioxane are outside control limits for sample JB43715-2MSD. Probable cause due to sample homogeneity.
- JB43715-2MSD for 1,4-Dioxane: Outside control limits due to matrix interference.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ

Batch ID: OP67984

- All samples were extracted within the recommended method holding time.
- Sample(s) JB43803-1MS, JB43803-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for Benzaldehyde are outside control limits.
- OP67984-BS1 for Benzaldehyde: Outside of in house control limits.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ

Batch ID: OP67984A

- All samples were extracted within the recommended method holding time.
- Sample(s) JB43758-1QMS, JB43758-1QMDS were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Pentachlorophenol, Phenanthrene are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Pentachlorophenol, Phenanthrene are outside control limits. Probable cause due to matrix interference.
- RPD(s) for MSD for Anthracene are outside control limits for sample OP67984A-MSD. Probable cause due to sample homogeneity.
- Sample(s) OP67984A-MS, OP67984A-MSD have surrogates outside control limits. Probable cause due to matrix interference.
- OP67984A-MS for Pentachlorophenol: High percent recoveries and no associated positive found in the QC batch.
- OP67984A-MS for Phenol-d5: Outside control limits due to matrix interference.
- OP67984A-MSD for Anthracene: Outside control limits due to matrix interference.
- OP67984A-MSD for Phenol-d5: Outside control limits due to matrix interference.

Extractables by GC By Method NJDEP EPH

Matrix: AQ

Batch ID: OP67970

- All samples were extracted within the recommended method holding time.
- Sample(s) JB43803-1DUP, JB43803-1MS, JB43803-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Extractables by GC By Method SW846 8081B

Matrix: AQ

Batch ID: OP67940

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB43703-4MS, JB43703-4MSD, OP67940-MSMSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8082A

Matrix: AQ

Batch ID: OP67939

- All samples were extracted within the recommended method holding time.
- Sample(s) JB43705-1QMS, JB43705-1QMDS, OP67939-MSMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.

Metals By Method SW846 6010C

Matrix: AQ

Batch ID: MP73695

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB43790-3MS, JB43790-3MSD, JB43790-3SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Calcium are outside control limits. Spike recovery indicates possible matrix interference.
- Matrix Spike Recovery(s) for Sodium are outside control limits. Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery information.
- RPD(s) for Serial Dilution for Aluminum, Antimony, Cadmium, Chromium, Copper, Lead, Nickel, Selenium, Barium, Manganese are outside control limits for sample MP73695-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP73695-SD1 for Barium: Serial dilution indicates possible matrix interference.
- MP73695-SD1 for Manganese: Serial dilution indicates possible matrix interference.

Matrix: SO

Batch ID: MP73771

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB43880-44AMS, JB43880-44AMSD, JB43880-44ASDL were used as the QC samples for metals.

Metals By Method SW846 7470A

Matrix: AQ

Batch ID: MP73687

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB43865-1MS, JB43865-1MSD were used as the QC samples for metals.

Wet Chemistry By Method EPA 335.4/LACHAT

Matrix: AQ

Batch ID: GP73805

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB43803-1DUP, JB43803-1MS were used as the QC samples for Cyanide.

Wet Chemistry By Method SM2540 G-97

Matrix: SO

Batch ID: GN89323

- The data for SM2540 G-97 meets quality control requirements.

Wet Chemistry By Method SM4500H+ B-11

Matrix: AQ

Batch ID: R125210

- The data for SM4500H+ B-11 meets quality control requirements.
- JB43803-1 for pH: Sample received out of holding time for pH analysis.

Wet Chemistry By Method SW846 7196A

Matrix: AQ

Batch ID: GN89222

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB43803-1DUP, JB43803-1MS were used as the QC samples for Chromium, Hexavalent.

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

Summary of Hits

Page 1 of 1

Job Number: JB43803

Account: Fort Monmouth Environmental Testing Lab.

Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Collected: 08/02/13

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method

JB43803-1 SSTA-E-GW

Total TIC, Semi-Volatile	4.5 J				ug/l	
Aluminum	2960	200			ug/l	SW846 6010C
Calcium	25800	5000			ug/l	SW846 6010C
Chromium	14.0	10			ug/l	SW846 6010C
Iron	4420	100			ug/l	SW846 6010C
Lead	3.0	3.0			ug/l	SW846 6010C
Magnesium	8140	5000			ug/l	SW846 6010C
Manganese	89.6	15			ug/l	SW846 6010C
Sodium	176000	10000			ug/l	SW846 6010C
Zinc	37.3	20			ug/l	SW846 6010C
pH ^a	4.44				su	SM4500H+ B-11

JB43803-2 FGS-A (6.0-6.5)

Methylene chloride	2.5 J	6.2	1.6	ug/kg	SW846 8260B
Lead	53.1	2.3		mg/kg	SW846 6010C

JB43803-3 FGS-A-GW

Lead	10.4	3.0		ug/l	SW846 6010C

JB43803-4 FGS-B-GW

Lead	5.0	3.0		ug/l	SW846 6010C

JB43803-5 FGS-C-GW

Lead	4.6	3.0		ug/l	SW846 6010C

JB43803-6 FGS-D-GW

Lead	13.7	3.0		ug/l	SW846 6010C

JB43803-7 FGS-E-GW

Lead	21.7	3.0		ug/l	SW846 6010C

(a) Sample received out of holding time for pH analysis.

Sample Results

Report of Analysis

Report of Analysis

Page 1 of 2

Client Sample ID:	SSTA-E-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-1	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B110329.D	1	08/05/13	DR	n/a	n/a	V2B5018
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	ug/l	

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Report of Analysis

Page 2 of 2

Client Sample ID:	SSTA-E-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-1	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	93%		72-123%
2037-26-5	Toluene-D8	101%		82-118%
460-00-4	4-Bromofluorobenzene	91%		75-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

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Report of Analysis

Page 1 of 2

Client Sample ID:	SSTA-E-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-1	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2P26068.D	1	08/09/13	ALS	08/06/13	OP67984	E2P1124
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

ABN TCL List without PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	5.3	1.0	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.3	1.9	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.3	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.3	1.6	ug/l	
51-28-5	2,4-Dinitrophenol	ND	21	17	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	21	1.0	ug/l	
95-48-7	2-Methylphenol	ND	2.1	1.1	ug/l	
	3&4-Methylphenol	ND	2.1	0.97	ug/l	
88-75-5	2-Nitrophenol	ND	5.3	1.6	ug/l	
100-02-7	4-Nitrophenol	ND	11	5.5	ug/l	
108-95-2	Phenol	ND	2.1	1.3	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.3	0.99	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.3	1.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.3	1.4	ug/l	
98-86-2	Acetophenone	ND	2.1	0.30	ug/l	
1912-24-9	Atrazine	ND	5.3	0.51	ug/l	
100-52-7	Benzaldehyde	ND	5.3	3.4	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.1	0.38	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.1	0.30	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.1	0.32	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.1	0.31	ug/l	
106-47-8	4-Chloroaniline	ND	5.3	0.56	ug/l	
86-74-8	Carbazole	ND	1.1	0.38	ug/l	
105-60-2	Caprolactam	ND	2.1	0.73	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.1	0.32	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.1	0.32	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	2.1	0.48	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.1	0.33	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.1	0.45	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.1	0.49	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.3	0.38	ug/l	
132-64-9	Dibenzofuran	ND	5.3	0.28	ug/l	

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Report of Analysis

Page 2 of 2

Client Sample ID:	SSTA-E-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-1	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

ABN TCL List without PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
84-74-2	Di-n-butyl phthalate	ND	2.1	0.58	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.1	0.32	ug/l	
84-66-2	Diethyl phthalate	ND	2.1	0.34	ug/l	
131-11-3	Dimethyl phthalate	ND	2.1	0.30	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.1	0.62	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.1	0.54	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	11	7.5	ug/l	
67-72-1	Hexachloroethane	ND	2.1	0.58	ug/l	
78-59-1	Isophorone	ND	2.1	0.29	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.1	0.40	ug/l	
88-74-4	2-Nitroaniline	ND	5.3	1.2	ug/l	
99-09-2	3-Nitroaniline	ND	5.3	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.3	1.7	ug/l	
98-95-3	Nitrobenzene	ND	2.1	0.44	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.1	0.32	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.3	0.32	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.1	0.32	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	28%		10-110%
4165-62-2	Phenol-d5	22%		10-110%
118-79-6	2,4,6-Tribromophenol	67%		29-139%
4165-60-0	Nitrobenzene-d5	62%		28-131%
321-60-8	2-Fluorobiphenyl	58%		30-121%
1718-51-0	Terphenyl-d14	92%		16-147%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.24	14	ug/l	J
	Internal standard added for SIM test	5.01	5.7	ug/l	J
	Internal standard added for SIM test	6.85	4.4	ug/l	J
	Internal standard added for SIM test	8.85	4.3	ug/l	J
	Internal standard added for SIM test	12.18	4.7	ug/l	J
	unknown	14.43	4.5	ug/l	J
	Internal standard added for SIM te	16.50	4.6	ug/l	J
	Total TIC, Semi-Volatile		4.5	ug/l	J
	Total Alkanes		0	ug/l	

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSTA-E-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-1	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8270D BY SIM SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4P2810.D	1	08/08/13	AD	08/06/13	OP67984A	E4P112
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
87-86-5	Pentachlorophenol	ND	0.32	0.11	ug/l	
83-32-9	Acenaphthene	ND	0.11	0.021	ug/l	
208-96-8	Acenaphthylene	ND	0.11	0.025	ug/l	
120-12-7	Anthracene	ND	0.11	0.021	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.11	0.012	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.11	0.013	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.11	0.011	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	0.11	0.016	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.11	0.016	ug/l	
218-01-9	Chrysene	ND	0.11	0.012	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.11	0.017	ug/l	
206-44-0	Fluoranthene	ND	0.11	0.014	ug/l	
86-73-7	Fluorene	ND	0.11	0.018	ug/l	
118-74-1	Hexachlorobenzene	ND	0.021	0.017	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.11	0.015	ug/l	
91-20-3	Naphthalene	ND	0.11	0.037	ug/l	
85-01-8	Phenanthrene	ND	0.11	0.022	ug/l	
129-00-0	Pyrene	ND	0.11	0.016	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	29%		10-110%
4165-62-2	Phenol-d5	24%		10-110%
118-79-6	2,4,6-Tribromophenol	57%		10-157%
4165-60-0	Nitrobenzene-d5	51%		23-131%
321-60-8	2-Fluorobiphenyl	49%		24-120%
1718-51-0	Terphenyl-d14	78%		10-125%

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Report of Analysis

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Client Sample ID:	SSTA-E-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-1	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8081B SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1G93008.D	1	08/06/13	DS	08/04/13	OP67940	G1G3071
Run #2							

	Initial Volume	Final Volume
Run #1	960 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0082	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0024	ug/l	
319-85-7	beta-BHC	ND	0.010	0.0024	ug/l	
319-86-8	delta-BHC	ND	0.010	0.0019	ug/l	
58-89-9	gamma-BHC (Lindane)	ND	0.010	0.0018	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0030	ug/l	
5103-74-2	gamma-Chlordane	ND	0.010	0.0022	ug/l	
57-74-9	Chlordane (alpha and gamma)	ND	0.010	0.0022	ug/l	
60-57-1	Dieldrin	ND	0.010	0.0017	ug/l	
72-54-8	4,4'-DDD	ND	0.010	0.0026	ug/l	
72-55-9	4,4'-DDE	ND	0.010	0.0018	ug/l	
50-29-3	4,4'-DDT	ND	0.010	0.0033	ug/l	
72-20-8	Endrin	ND	0.010	0.0021	ug/l	
1031-07-8	Endosulfan sulfate	ND	0.010	0.0020	ug/l	
7421-93-4	Endrin aldehyde	ND	0.010	0.0038	ug/l	
53494-70-5	Endrin ketone	ND	0.010	0.0049	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0029	ug/l	
33213-65-9	Endosulfan-II	ND	0.010	0.0021	ug/l	
76-44-8	Heptachlor	ND	0.010	0.0023	ug/l	
1024-57-3	Heptachlor epoxide	ND	0.010	0.0027	ug/l	
72-43-5	Methoxychlor	ND	0.021	0.0042	ug/l	
8001-35-2	Toxaphene	ND	0.26	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	52%		14-144%
877-09-8	Tetrachloro-m-xylene	53%		14-144%
2051-24-3	Decachlorobiphenyl	40%		10-128%
2051-24-3	Decachlorobiphenyl	44%		10-128%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSTA-E-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-1	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8082A SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5G16019.D	1	08/06/13	JR	08/04/13	OP67939	G5G430
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.56	0.14	ug/l	
11104-28-2	Aroclor 1221	ND	0.56	0.30	ug/l	
11141-16-5	Aroclor 1232	ND	0.56	0.43	ug/l	
53469-21-9	Aroclor 1242	ND	0.56	0.096	ug/l	
12672-29-6	Aroclor 1248	ND	0.56	0.16	ug/l	
11097-69-1	Aroclor 1254	ND	0.56	0.16	ug/l	
11096-82-5	Aroclor 1260	ND	0.56	0.23	ug/l	
11100-14-4	Aroclor 1268	ND	0.56	0.14	ug/l	
37324-23-5	Aroclor 1262	ND	0.56	0.067	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	50%		16-140%
877-09-8	Tetrachloro-m-xylene	56%		16-140%
2051-24-3	Decachlorobiphenyl	56%		10-125%
2051-24-3	Decachlorobiphenyl	56%		10-125%

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Report of Analysis

Page 1 of 1

Client Sample ID:	SSTA-E-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-1	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	NJDEP EPH SW846 3510C		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	4Y23477.D	1	08/06/13	KD	08/05/13	OP67970	G4Y745
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	1.0 ml
Run #2		

NJDEP EPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	EPH (C9-C28)	ND	0.053	0.034	mg/l	
	EPH (> C28-C40)	ND	0.053	0.016	mg/l	
	Total EPH (C9-C40)	ND	0.053	0.016	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	118%		40-140%
3386-33-2	1-Chlorooctadecane	119%		40-140%

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Report of Analysis

Page 1 of 1

Client Sample ID: SSTA-E-GW	Date Sampled: 08/02/13
Lab Sample ID: JB43803-1	Date Received: 08/02/13
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ	

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Aluminum	2960	200	ug/l	1	08/07/13	08/16/13	ND	SW846 6010C ³ SW846 3010A ⁵
Antimony	< 6.0	6.0	ug/l	1	08/07/13	08/16/13	ND	SW846 6010C ³ SW846 3010A ⁵
Arsenic	< 3.0	3.0	ug/l	1	08/07/13	08/16/13	ND	SW846 6010C ³ SW846 3010A ⁵
Barium	< 200	200	ug/l	1	08/07/13	08/11/13	GT	SW846 6010C ² SW846 3010A ⁵
Beryllium	< 1.0	1.0	ug/l	1	08/07/13	08/16/13	ND	SW846 6010C ³ SW846 3010A ⁵
Cadmium	< 3.0	3.0	ug/l	1	08/07/13	08/11/13	GT	SW846 6010C ² SW846 3010A ⁵
Calcium	25800	5000	ug/l	1	08/07/13	08/11/13	GT	SW846 6010C ² SW846 3010A ⁵
Chromium	14.0	10	ug/l	1	08/07/13	08/11/13	GT	SW846 6010C ² SW846 3010A ⁵
Cobalt	< 50	50	ug/l	1	08/07/13	08/11/13	GT	SW846 6010C ² SW846 3010A ⁵
Copper	< 10	10	ug/l	1	08/07/13	08/16/13	ND	SW846 6010C ³ SW846 3010A ⁵
Iron	4420	100	ug/l	1	08/07/13	08/11/13	GT	SW846 6010C ² SW846 3010A ⁵
Lead	3.0	3.0	ug/l	1	08/07/13	08/16/13	ND	SW846 6010C ³ SW846 3010A ⁵
Magnesium	8140	5000	ug/l	1	08/07/13	08/11/13	GT	SW846 6010C ² SW846 3010A ⁵
Manganese	89.6	15	ug/l	1	08/07/13	08/11/13	GT	SW846 6010C ² SW846 3010A ⁵
Mercury	< 0.20	0.20	ug/l	1	08/06/13	08/06/13	DP	SW846 7470A ¹ SW846 7470A ⁴
Nickel	< 10	10	ug/l	1	08/07/13	08/16/13	ND	SW846 6010C ³ SW846 3010A ⁵
Potassium	< 10000	10000	ug/l	1	08/07/13	08/16/13	ND	SW846 6010C ³ SW846 3010A ⁵
Selenium	< 10	10	ug/l	1	08/07/13	08/16/13	ND	SW846 6010C ³ SW846 3010A ⁵
Silver	< 10	10	ug/l	1	08/07/13	08/11/13	GT	SW846 6010C ² SW846 3010A ⁵
Sodium	176000	10000	ug/l	1	08/07/13	08/16/13	ND	SW846 6010C ³ SW846 3010A ⁵
Thallium	< 2.0	2.0	ug/l	1	08/07/13	08/16/13	ND	SW846 6010C ³ SW846 3010A ⁵
Vanadium	< 50	50	ug/l	1	08/07/13	08/11/13	GT	SW846 6010C ² SW846 3010A ⁵
Zinc	37.3	20	ug/l	1	08/07/13	08/11/13	GT	SW846 6010C ² SW846 3010A ⁵

(1) Instrument QC Batch: MA31828

(2) Instrument QC Batch: MA31868

(3) Instrument QC Batch: MA31916

(4) Prep QC Batch: MP73687

(5) Prep QC Batch: MP73695

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SSTA-E-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-1	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Chromium, Hexavalent	< 0.010	0.010	mg/l	1	08/02/13 19:35	LS	SW846 7196A
Cyanide	< 0.010	0.010	mg/l	1	08/08/13 09:55	CV	EPA 335.4/LACHAT
pH ^a	4.44		su	1	08/02/13 16:08	AS	SM4500H+ B-11

(a) Sample received out of holding time for pH analysis.

RL = Reporting Limit

Report of Analysis

Page 1 of 2

Client Sample ID:	FGS-A (6.0-6.5)	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-2	Date Received:	08/02/13
Matrix:	SO - Soil	Percent Solids:	85.6
Method:	SW846 8260B SW846 5035		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	I186709.D	1	08/05/13	SJM	08/02/13 16:00	n/a	VI7542
Run #2							

	Initial Weight
Run #1	4.7 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	12	2.1	ug/kg	
71-43-2	Benzene	ND	1.2	0.15	ug/kg	
74-97-5	Bromochloromethane	ND	6.2	0.33	ug/kg	
75-27-4	Bromodichloromethane	ND	6.2	0.13	ug/kg	
75-25-2	Bromoform	ND	6.2	0.19	ug/kg	
74-83-9	Bromomethane	ND	6.2	0.34	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	3.0	ug/kg	
75-15-0	Carbon disulfide	ND	6.2	0.15	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.2	0.17	ug/kg	
108-90-7	Chlorobenzene	ND	6.2	0.13	ug/kg	
75-00-3	Chloroethane	ND	6.2	0.28	ug/kg	
67-66-3	Chloroform	ND	6.2	0.10	ug/kg	
74-87-3	Chloromethane	ND	6.2	0.23	ug/kg	
110-82-7	Cyclohexane	ND	6.2	0.15	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.1	ug/kg	
124-48-1	Dibromochloromethane	ND	6.2	0.20	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.16	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.2	0.23	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.2	0.23	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.2	0.22	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.2	0.28	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.2	0.17	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.17	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.2	0.32	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.2	0.23	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.2	0.30	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.2	0.19	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.2	0.17	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.2	0.19	ug/kg	
123-91-1	1,4-Dioxane	ND	160	74	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.33	ug/kg	
76-13-1	Freon 113	ND	6.2	0.53	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

Page 2 of 2

Client Sample ID:	FGS-A (6.0-6.5)	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-2	Date Received:	08/02/13
Matrix:	SO - Soil	Percent Solids:	85.6
Method:	SW846 8260B SW846 5035		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	6.2	0.77	ug/kg	
98-82-8	Isopropylbenzene	ND	6.2	0.092	ug/kg	
79-20-9	Methyl Acetate	ND	6.2	3.2	ug/kg	
108-87-2	Methylcyclohexane	ND	6.2	0.21	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.29	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.2	0.93	ug/kg	
75-09-2	Methylene chloride	2.5	6.2	1.6	ug/kg	J
100-42-5	Styrene	ND	6.2	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.2	0.16	ug/kg	
127-18-4	Tetrachloroethene	ND	6.2	0.21	ug/kg	
108-88-3	Toluene	ND	1.2	0.13	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	6.2	0.20	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.2	0.17	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.2	0.13	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.2	0.22	ug/kg	
79-01-6	Trichloroethene	ND	6.2	0.22	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.2	0.37	ug/kg	
75-01-4	Vinyl chloride	ND	6.2	0.18	ug/kg	
	m,p-Xylene	ND	1.2	0.22	ug/kg	
95-47-6	o-Xylene	ND	1.2	0.17	ug/kg	
1330-20-7	Xylene (total)	ND	1.2	0.17	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		59-130%
17060-07-0	1,2-Dichloroethane-D4	101%		65-123%
2037-26-5	Toluene-D8	98%		80-124%
460-00-4	4-Bromofluorobenzene	103%		71-132%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	
	Total Alkanes		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

Report of Analysis

Client Sample ID:	FGS-A (6.0-6.5)	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-2	Date Received:	08/02/13
Matrix:	SO - Soil	Percent Solids:	85.6
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	53.1	2.3	mg/kg	1	08/10/13	08/17/13 ND	SW846 6010C ¹	SW846 3010A ²

- (1) Instrument QC Batch: MA31916
(2) Prep QC Batch: MP73771

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FGS-A (6.0-6.5)	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-2	Date Received:	08/02/13
Matrix:	SO - Soil	Percent Solids:	85.6
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	14.4		%	1	08/06/13 11:25	BM	SM2540 G-97

RL = Reporting Limit

Report of Analysis

Page 1 of 2

Client Sample ID:	FGS-A-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-3	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B110330.D	1	08/05/13	DR	n/a	n/a	V2B5018
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	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

Page 2 of 2

Client Sample ID:	FGS-A-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-3	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	92%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	92%		75-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		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

Report of Analysis

Client Sample ID:	FGS-A-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-3	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	10.4	3.0	ug/l	1	08/07/13	08/16/13 ND	SW846 6010C ¹	SW846 3010A ²

- (1) Instrument QC Batch: MA31916
(2) Prep QC Batch: MP73695

RL = Reporting Limit

Report of Analysis

Page 1 of 2

Client Sample ID:	FGS-B-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-4	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B110331.D	1	08/05/13	DR	n/a	n/a	V2B5018
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	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

Page 2 of 2

Client Sample ID:	FGS-B-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-4	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	96%		79-117%
17060-07-0	1,2-Dichloroethane-D4	91%		72-123%
2037-26-5	Toluene-D8	100%		82-118%
460-00-4	4-Bromofluorobenzene	93%		75-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		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

Report of Analysis

Client Sample ID:	FGS-B-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-4	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	5.0	3.0	ug/l	1	08/07/13	08/17/13 ND	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA31916
(2) Prep QC Batch: MP73695

RL = Reporting Limit

Report of Analysis

Page 1 of 2

Client Sample ID:	FGS-C-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-5	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B110332.D	1	08/05/13	DR	n/a	n/a	V2B5018
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	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

Page 2 of 2

Client Sample ID:	FGS-C-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-5	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		79-117%
17060-07-0	1,2-Dichloroethane-D4	92%		72-123%
2037-26-5	Toluene-D8	99%		82-118%
460-00-4	4-Bromofluorobenzene	92%		75-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		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

Report of Analysis

Client Sample ID:	FGS-C-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-5	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	4.6	3.0	ug/l	1	08/07/13	08/17/13 ND	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA31916
(2) Prep QC Batch: MP73695

RL = Reporting Limit

4.5
4

Report of Analysis

Page 1 of 2

Client Sample ID:	FGS-D-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-6	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B110333.D	1	08/05/13	DR	n/a	n/a	V2B5018
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	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

Page 2 of 2

Client Sample ID:	FGS-D-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-6	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-117%
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	101%		82-118%
460-00-4	4-Bromofluorobenzene	91%		75-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		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

Report of Analysis

Client Sample ID:	FGS-D-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-6	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	13.7	3.0	ug/l	1	08/07/13	08/17/13 ND	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA31916
(2) Prep QC Batch: MP73695

RL = Reporting Limit

4.6
4

Report of Analysis

Page 1 of 2

Client Sample ID:	FGS-E-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-7	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	2B110334.D	1	08/05/13	DR	n/a	n/a	V2B5018
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	3.3	ug/l	
71-43-2	Benzene	ND	1.0	0.24	ug/l	
74-97-5	Bromochloromethane	ND	5.0	0.30	ug/l	
75-27-4	Bromodichloromethane	ND	1.0	0.21	ug/l	
75-25-2	Bromoform	ND	4.0	0.21	ug/l	
74-83-9	Bromomethane	ND	2.0	0.22	ug/l	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/l	
75-15-0	Carbon disulfide	ND	2.0	0.19	ug/l	
56-23-5	Carbon tetrachloride	ND	1.0	0.22	ug/l	
108-90-7	Chlorobenzene	ND	1.0	0.23	ug/l	
75-00-3	Chloroethane	ND	1.0	0.26	ug/l	
67-66-3	Chloroform	ND	1.0	0.20	ug/l	
74-87-3	Chloromethane	ND	1.0	0.21	ug/l	
110-82-7	Cyclohexane	ND	5.0	0.35	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.54	ug/l	
124-48-1	Dibromochloromethane	ND	1.0	0.14	ug/l	
106-93-4	1,2-Dibromoethane	ND	2.0	0.20	ug/l	
95-50-1	1,2-Dichlorobenzene	ND	1.0	0.22	ug/l	
541-73-1	1,3-Dichlorobenzene	ND	1.0	0.22	ug/l	
106-46-7	1,4-Dichlorobenzene	ND	1.0	0.30	ug/l	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.27	ug/l	
75-34-3	1,1-Dichloroethane	ND	1.0	0.11	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	0.26	ug/l	
75-35-4	1,1-Dichloroethene	ND	1.0	0.19	ug/l	
156-59-2	cis-1,2-Dichloroethene	ND	1.0	0.19	ug/l	
156-60-5	trans-1,2-Dichloroethene	ND	1.0	0.21	ug/l	
78-87-5	1,2-Dichloropropane	ND	1.0	0.48	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND	1.0	0.21	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	1.0	0.19	ug/l	
123-91-1	1,4-Dioxane	ND	130	75	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.23	ug/l	
76-13-1	Freon 113	ND	5.0	0.53	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

Page 2 of 2

Client Sample ID:	FGS-E-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-7	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
591-78-6	2-Hexanone	ND	5.0	1.1	ug/l	
98-82-8	Isopropylbenzene	ND	2.0	0.45	ug/l	
79-20-9	Methyl Acetate	ND	5.0	1.2	ug/l	
108-87-2	Methylcyclohexane	ND	5.0	0.26	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.16	ug/l	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.83	ug/l	
75-09-2	Methylene chloride	ND	2.0	0.70	ug/l	
100-42-5	Styrene	ND	5.0	0.21	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/l	
127-18-4	Tetrachloroethene	ND	1.0	0.28	ug/l	
108-88-3	Toluene	ND	1.0	0.23	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.28	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.20	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	1.0	0.24	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	1.0	0.29	ug/l	
79-01-6	Trichloroethene	ND	1.0	0.22	ug/l	
75-69-4	Trichlorofluoromethane	ND	5.0	0.27	ug/l	
75-01-4	Vinyl chloride	ND	1.0	0.21	ug/l	
	m,p-Xylene	ND	1.0	0.42	ug/l	
95-47-6	o-Xylene	ND	1.0	0.24	ug/l	
1330-20-7	Xylene (total)	ND	1.0	0.24	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		79-117%
17060-07-0	1,2-Dichloroethane-D4	94%		72-123%
2037-26-5	Toluene-D8	101%		82-118%
460-00-4	4-Bromofluorobenzene	90%		75-118%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/l	
	Total Alkanes		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

Report of Analysis

Client Sample ID:	FGS-E-GW	Date Sampled:	08/02/13
Lab Sample ID:	JB43803-7	Date Received:	08/02/13
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Lead	21.7	3.0	ug/l	1	08/07/13	08/17/13 ND	SW846 6010C ¹	SW846 3010A ²

(1) Instrument QC Batch: MA31916
(2) Prep QC Batch: MP73695

RL = Reporting Limit

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



PAGE 1 OF 1 E

FED-EX Tracking #	Bottle Order Control #						
Account Quote #	Acctest Job # J843803						
Requested Analysis (see TEST CODE sheet)						Matrix Codes	
Full TCC/TAL+30 ✓	Hexavalent Chromium ✓	S&W E-PH ✓	P-H ✓	VOL+15 ✓	Lead ✓	% Moisture ✓	DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SL - Soil SD - Sludge SED-Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WIP - Wipe FB-Field Blank EB-Equipment Blank RB- Rinse Blank TB-Trip Blank
							LAB USE ONLY
							E2
							A30
							C45
							G47
							850
							C28
							14R3
							4954
Comments / Special Instructions							
o g encoreg 8-2-13							
Initial Raw data							
cluding courier delivery.							
Date Time:	8/2/15 4:55	Received By:	2				
Date Time:		Received By:	4				
Infect	Not Infect	Preserved where applicable		On Ice	cooler Temp.		
				M	27.3°C		

5.1

Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB43803 **Client:** _____ **Project:** _____
Date / Time Received: 8/2/2013 **Delivery Method:** _____ **Airbill #s:** _____
Cooler Temps (Initial/Adjusted): #1: (1.8/1.8); 0

Cooler Security

<u>Y or N</u>	<u>Y or N</u>
1. Custody Seals Present: ☒ ☐	3. COC Present: ☒ ☐
2. Custody Seals Intact: ☒ ☐	4. Smpl Dates/Time OK ☒ ☐

Cooler Temperature

<u>Y or N</u>	
1. Temp criteria achieved: ☒ ☐	
2. Cooler temp verification: _____	IR Gun
3. Cooler media: _____	Ice (Bag)
4. No. Coolers: _____	1

Quality Control Preservation

<u>Y or N</u>	<u>N/A</u>
1. Trip Blank present / cooler: ☐ ☒ ☐	
2. Trip Blank listed on COC: ☐ ☒ ☐	
3. Samples preserved properly: ☒ ☐ ☐	
4. VOCs headspace free: ☒ ☐ ☐	

Sample Integrity - Documentation

<u>Y or N</u>	<u>Y or N</u>
1. Sample labels present on bottles: ☒ ☐	
2. Container labeling complete: ☒ ☐	
3. Sample container label / COC agree: ☒ ☐	

Sample Integrity - Condition

<u>Y or N</u>	<u>Y or N</u>
1. Sample recvd within HT: ☒ ☐	
2. All containers accounted for: ☒ ☐	
3. Condition of sample: _____	Intact

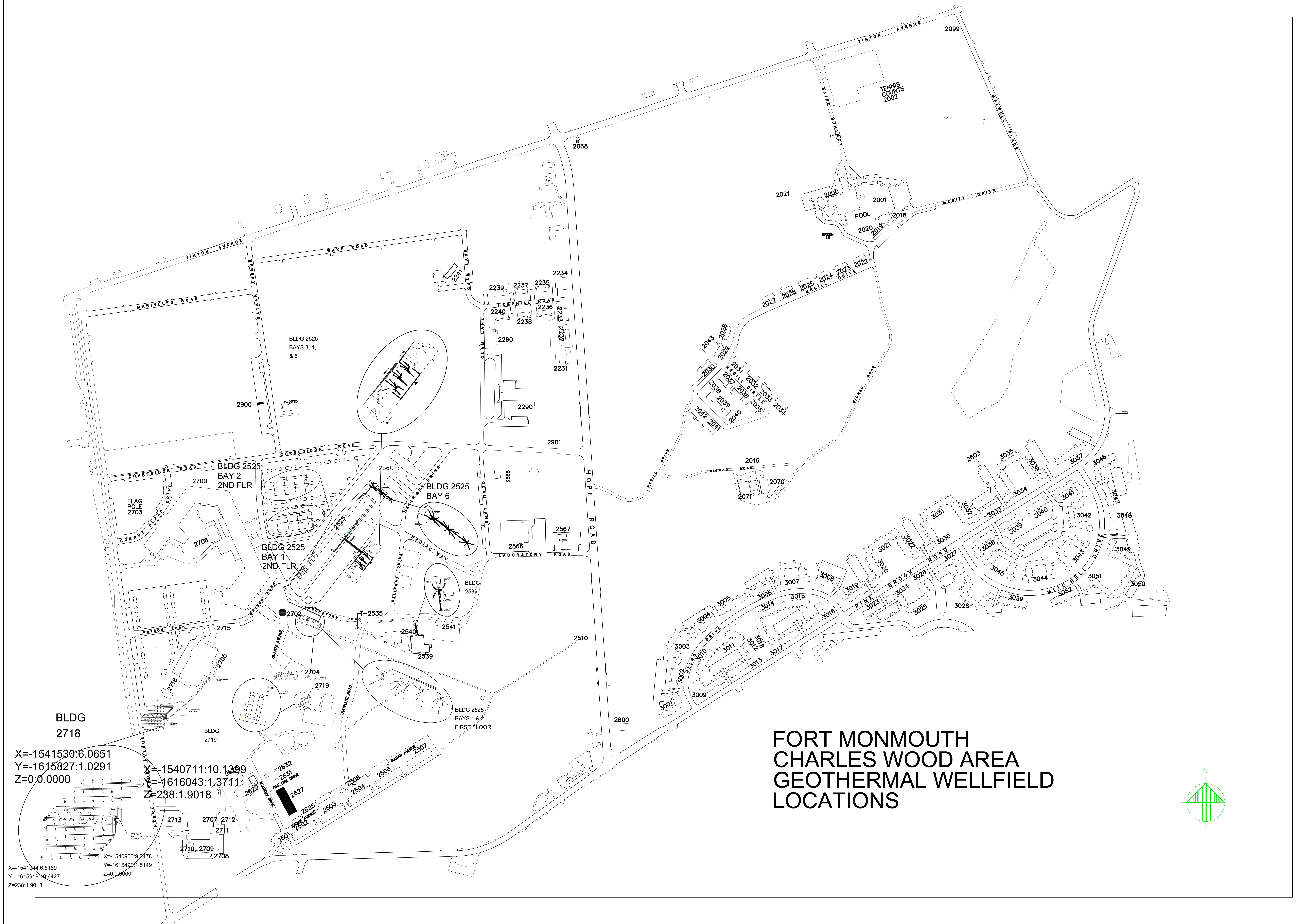
Sample Integrity - Instructions

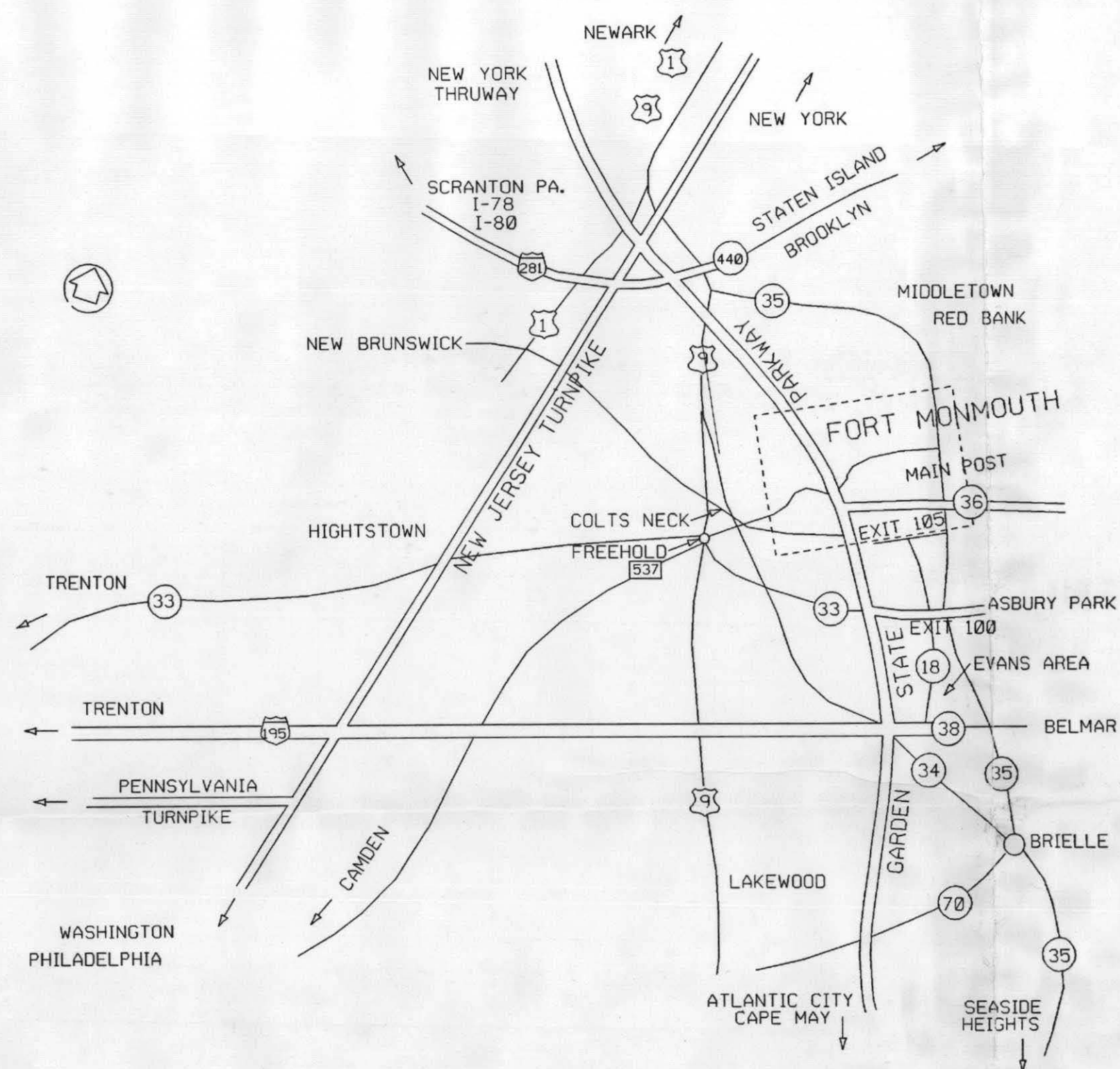
<u>Y or N</u>	<u>N/A</u>
1. Analysis requested is clear: ☒ ☐	
2. Bottles received for unspecified tests: ☐ ☒	
3. Sufficient volume recvd for analysis: ☒ ☐	
4. Compositing instructions clear: ☐ ☐	☒
5. Filtering instructions clear: ☐ ☐	☒

Comments

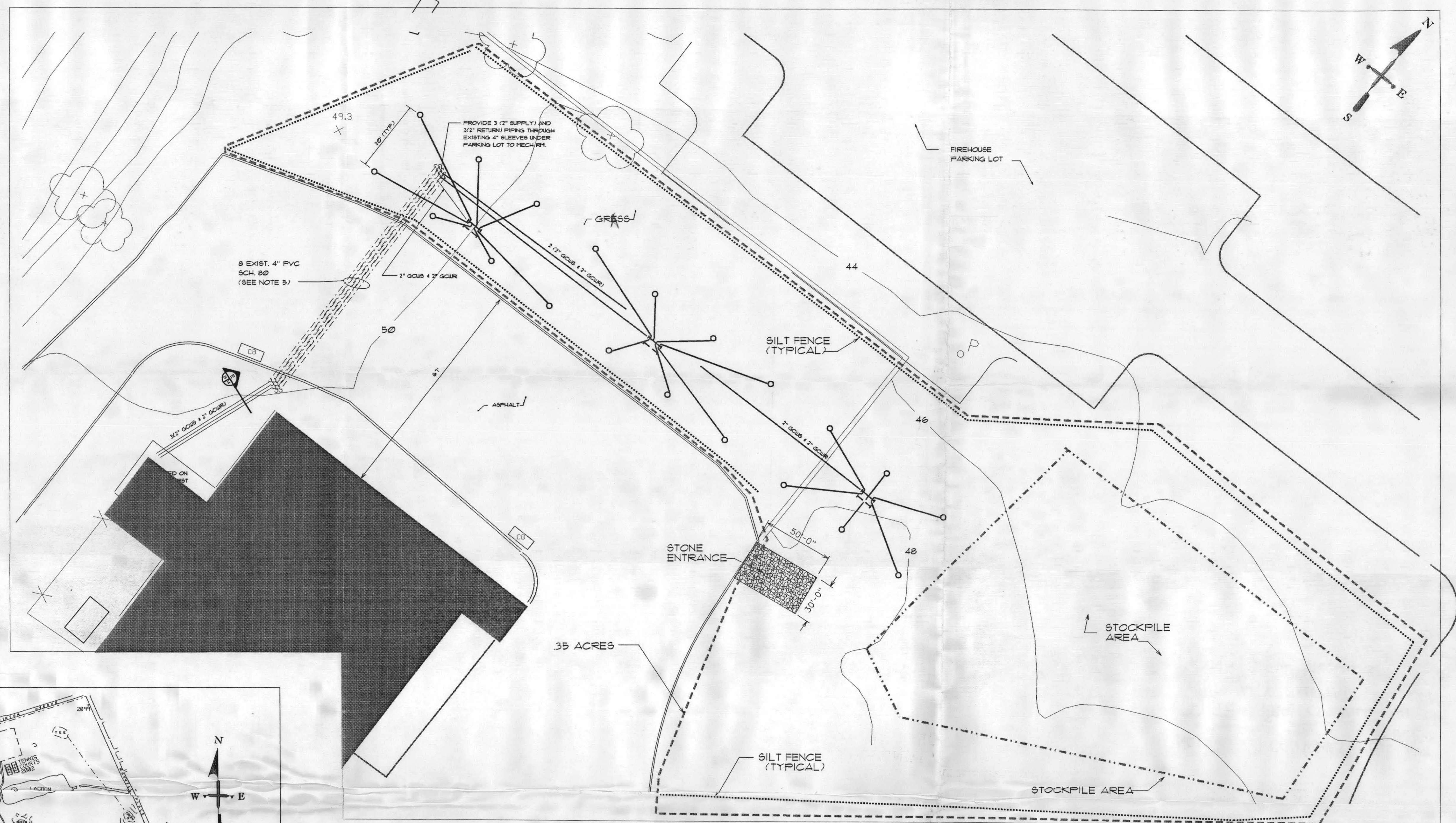
Attachment F

CWA Geothermal Well Layout Locations



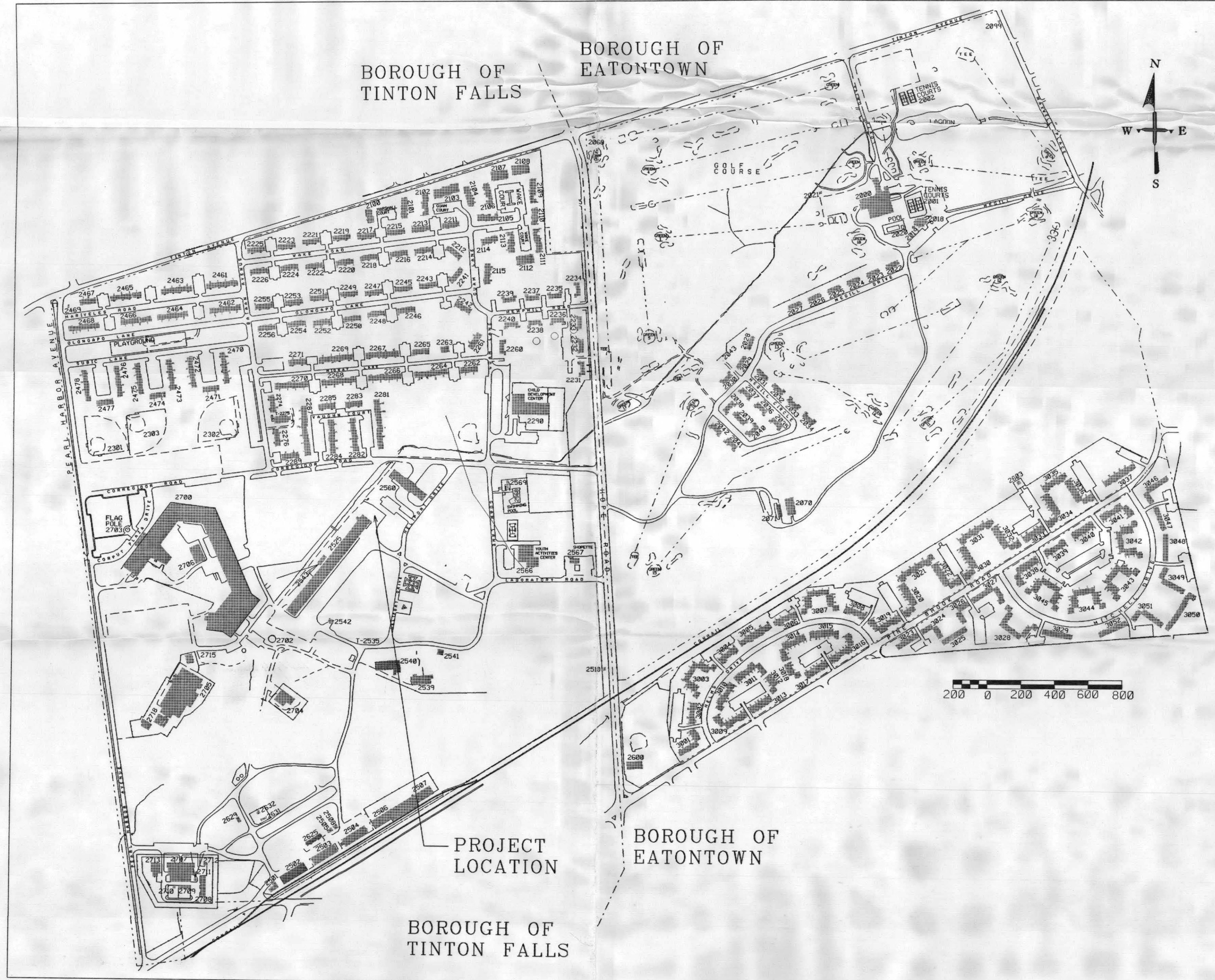


VICINITY MAP



SEDIMENTATION AND EROSION CONTROL PLAN
SCALE 1" = 10'

NOTES: 1) CONTOURS WILL NOT CHANGE.
2) THIS PROJECT WILL NOT TIE INTO ANY EXISTING OR CONSTRUCT ANY NEW STORM SEWER SYSTEM.



LOCATION MAP

SYMBOL	DESCRIPTION	DATE	APPROVED
REVISIONS			
DIRECTORATE OF PUBLIC WORKS Fort Monmouth, New Jersey "An Army Community Of Excellence"			
SITE PLAN FOR BAY 6, BUILDING 2525			
SOIL EROSION AND SEDIMENT CONTROL PLAN			
DESIGN: L. MARTINEZ MRE T.L. J. ALEXANDER PMD D. KOEHLER SAFETY F. MANGNO J. ERICHSEN CHIEF CMD M. MAER CUSTOMER	PM: L. MARTINEZ C.A. T.L. R. GARDNER DCI R. CAVALUZZI PREV. MED. J. SEREMBA ENVRON. D. DESAI ENER. OFC C. KONIG 754th EOD CPT Sponard		
RECOMMENDED: CHIEF ENGINEERING PLANS & SERVICES APPROVED DIR. OF PUBLIC WORKS	K. DOONEY DATE: 9/24/02 J. OTT, P.E.	SCALE: AS SHOWN DATE: 9/24/02 JOR. NO.: 02-0064	DRAWING NUMBER: SHEET 1 of 2



State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Case Management
401 East State Street
P.O. Box 420/Mail Code 401-05F
Trenton, NJ 08625-0028
Phone #: 609-633-1455
Fax #: 609-633-1439

BOB MARTIN
Commissioner

September 22, 2015

John Occhipinti
BRAC Environmental Coordinator
OACSIM – U.S. Army Fort Monmouth
PO Box 148
Oceanport, NJ 07757

Re: *Request for No Further Action at Parcel 28*
Site Investigation Report Addendum
Fort Monmouth
Oceanport, Monmouth County
PI G000000032

Dear Mr. Occhipinti:

The New Jersey Department of Environmental Protection (Department) has completed review of the referenced report, received June 8, 2015, prepared by the Department of the Army's Office of Assistant Chief of Staff for Installation Management as follow up to the July 2008 Site Investigation Report and the Department's letters of July 10, 2012 and February 22, 2013, and to provide information sufficient to allow for designation of No Further Action (NFA) of Parcel 28. The majority of Parcel 28 was previously recategorized as a Category 1 (February 22, 2013), and transferred. Among those areas remaining outstanding were several "carve-outs" - three former septic tanks and/or leach fields, a gasoline station associated with Building 2541. This submittal addresses these carve-outs, as well as specific underground storage tanks.

Underground Storage Tanks

The submittal indicates all but two of the reportedly 16 USTs previously located within Parcel 28 have received a designation of NFA. Attachment B, referenced as a compilation of the 16 USTs formerly located within Parcel 28, does not appear to include all UST/potential UST locations as noted on the figure contained in the *July 2014 Addendum Environmental Condition of Property Report Unregulated Heating Oil Tank Investigation Report*. Two specific USTs not included are:

UST Bldg 2546 / T9 - given a designation of Category 1 on February 22, 2013

UST Bldg 2544 / T7 – for which it was previously determined the NJDEP cannot comment as to the absence or presence of a petroleum discharge as no evaluation has been performed.

As regarding the request for designation of NFA for the following two USTs, as initially indicated via email to Calibre's Joe Pearson on June 19, 2013 at 1349 hours, no further action for the following USTs is required.

UST 2542-29

UST 2564-32

Former Septic System and Septic Tank A

Although the evaluation as proposed was unable to be fully completed due to the presence of the existing geothermal well field, it is agreed the investigation as documented in the referenced submittal, in conjunction with that previously performed and documented in the 2008 Site Investigation, is sufficient. No further action is necessary at this area of concern/carve-out.

Former Septic System East of Heliport Drive and South of Radiac Way

Previous sampling efforts as detailed in the 2008 Site Investigation adequately evaluated the leachfield, and found no contaminants above applicable criteria. The additional characterization sampling as documented in the referenced submittal was performed to complete evaluation of the septic system. Based upon the soil and ground water analytical results, no further action is necessary at this area of concern/carve-out. Although several metals were found in ground water above the Ground Water Quality Standards, N.J.A.C. 7:9-6, it has been determined the levels are present due to naturally occurring background conditions, not as the result of a discharge, and therefore are not subject to remediation pursuant to the Site Remediation Reform Act (N.J.S.A. 58:10C-1 et. seq.).

Former Septic System at Southeastern Corner of Parcel 28

As proposed, one test pit was performed in the location of the former holding tank area and four test pits were located within the former leach field. Based upon the additional sampling activities performed, and the analytical results from these as well as the 2008 Site Investigation activities, it is agreed the septic system has been adequately evaluated, and no further action is necessary at this area of concern/carve-out. Although several metals were found in ground water above the Ground Water Quality Standards, N.J.A.C. 7:9-6, it has been determined the levels are present due to naturally occurring background conditions, not as the result of a discharge, and therefore are not subject to remediation pursuant to the Site Remediation Reform Act (N.J.S.A. 58:10C-1 et. seq.).

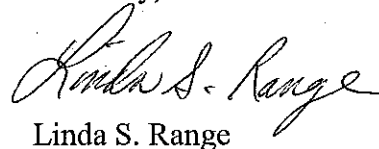
Former Gas Station at Former Building 2541

Although not identified in the 2008 Site Investigation, a gasoline station was subsequently identified as previously operating at Former Building 2541. An investigation of the area was performed in July/August 2013, with no exceedances of the applicable Soil Remediation Standards for volatile organics or lead noted.

Several of the ground water samples, however, exhibited elevated levels of lead, and cannot be considered for designation of no further action needed. As indicated in the submittal, the lead results may be biased high due to the sampling method (sample collection using a bailer, with high turbidity likely). Based upon the former use of the site, however, at minimum, the location which exhibited the highest lead concentration must be resampled, using methodology that would reduce turbidity (e.g. low flow), to obtain an analytical result which is below the Ground Water Quality Standards (N.J.A.C.).

Please contact this office if you have any questions.

Sincerely,

A handwritten signature in cursive script, appearing to read "Linda S. Range".

Linda S. Range

C: Joe Pearson, Calibre
Rich Harrison, FMERA
Joe Fallon, FMERA
Frank Barricelli, RAB
James Moore, USACE



New Jersey Department of Environmental Protection

Site Remediation Program

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

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

Documents:

- "Response to NJDEP's September 22, 2015 Comments on the June 4, 2015 *Request for No Further Action at Parcel 28, Site Investigation Report Addendum, Fort Monmouth, New Jersey.*"

PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

Full Legal Name of the Person Responsible for Conducting the Remediation: William R. Colvin

Representative First Name: William Representative Last Name: Colvin

Title: Fort Monmouth BRAC Environmental Coordinator (BEC)

Phone Number: (732) 380-7064 Ext: Fax:

Mailing Address: P.O. Box 148

City/Town: Oceanport State: NJ Zip Code: 07757

Email Address: william.r.colvin18.civ@mail.mil

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

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

Signature:  Date: 4/4/2016

Name/Title: William R. Colvin, PMP, CHMM, PG
BRAC Environmental Coordinator



DEPARTMENT OF THE ARMY

OFFICE OF ASSISTANT CHIEF OF STAFF FOR INSTALLATION MANAGEMENT
U.S. ARMY FORT MONMOUTH
P.O. 148
OCEANPORT, NEW JERSEY 07757

April 4, 2016

Ms. Linda Range
New Jersey Department of Environmental Protection
Bureau of Case Management
401 East State Street
PO Box 420/Mail Code 401-05F
Trenton, NJ 08625-0028

Subject: Response to NJDEP's September 22, 2015 Comments on the June 4, 2015 Request for No Further Action at Parcel 28, Site Investigation Report Addendum, Fort Monmouth, New Jersey

Dear Ms. Range:

Fort Monmouth and Parsons have reviewed the New Jersey Department of Environmental Protection (NJDEP) comments on the subject submittal for ECP Parcel 28, as documented in your letter dated September 22, 2015. We appreciate this opportunity to work with you on Parcel 28. Responses to your comments are provided below, for your review and concurrence or further comments.

A. Underground Storage Tanks

A1. COMMENT: *The submittal indicates all but two of the reportedly 16 USTs previously located within Parcel 28 have received a designation of NFA. Attachment B, referenced as a compilation of the 16 USTs formerly located within Parcel 28, does not appear to include all UST/potential UST locations as noted on the figure contained in the July 2014 Addendum Environmental Condition of Property Report Unregulated Heating Oil Tank Investigation Report. Two specific USTs not included are:*

*UST Bldg 2546 / T9 – given a designation of Category 1 on February 22, 2013
UST Bldg 2544 / T7 – for which it was previously determined the NJDEP cannot comment as to the absence or presence of a petroleum discharge as no evaluation has been performed.*

A1. RESPONSE: Agreed; there will be no further submittals from the Army concerning these locations.

A2. COMMENT: *As regarding the request for designation of NFA for the following two USTs, as initially indicated via email to Calibre's Joe Pearson on June 19, 2013 at 1349 hours, no further action for the following USTs is required.*

*UST 2542-29
UST 2564-32*

A2. RESPONSE: Agreed.

B. Former Septic System and Septic Tank A

B1. COMMENT: *Although the evaluation as proposed was unable to be fully completed due to the presence of the existing geothermal well field, it is agreed the investigation as documented in the referenced submittal, in conjunction with that previously performed and documented in the 2008 Site Investigation, is sufficient. No further action is necessary at this area of concern/carve-out.*

B1. RESPONSE: Agreed.

C. Former Septic System East of Heliport Drive and South of Radiac Way

C1. COMMENT: *Previous sampling efforts as detailed in the 2008 Site Investigation adequately evaluated the leachfield, and found no contaminants above applicable criteria. The additional characterization sampling as documented in the referenced submittal was performed to complete evaluation of the septic system. Based upon the soil and ground water analytical results, no further action is necessary at this area of concern/carve-out. Although several metals were found in ground water above the Ground Water Quality Standards, N.J.A.C. 7:9-6, it has been determined the levels are present due to naturally occurring background conditions, not as the result of a discharge, and therefore are not subject to remediation pursuant to the Site Remediation Reform Act (N.J.S.A. 58:10C-1 et. seq.).*

C1. RESPONSE: Agreed.

D. Former Septic System at Southeastern Corner of Parcel 28

D1. COMMENT: *As proposed, one test pit was performed in the location of the former holding tank area and four test pits were located within the former leach field. Based upon the additional sampling activities performed, and the analytical results from these as well as the 2008 Site Investigation activities, it is agreed the septic system has been adequately evaluated, and no further action is necessary at this area of concern/carve-out. Although several metals were found in ground water above the Ground Water Quality Standards, N.J.A.C. 7:9-6, it has been determined the levels are present due to naturally occurring background conditions, not as the result of a discharge, and therefore are not subject to remediation pursuant to the Site Remediation Reform Act (N.J.S.A. 58:10C-1 et. seq.).*

D1. RESPONSE: Agreed.

E. Former Gas Station at Former Building 2541

E1. COMMENT: *Although not identified in the 2008 Site Investigation, a gasoline station was subsequently identified as previously operating at Former Building 2541. An investigation of the area was performed in July/August 2013, with no exceedances of the applicable Soil Remediation Standards for volatile organics or lead noted.*

Several of the ground water samples, however, exhibited elevated levels of lead, and cannot be considered for designation of no further action needed. As indicated in the submittal, the lead results may be biased high due to the sampling method (sampling collection using a bailer, with high turbidity likely). Based upon the former use of the site, however, at minimum, the location which exhibited the highest lead concentration must be resampled, using methodology that would reduce turbidity (e.g. low flow), to obtain an analytical result which is below the Ground Water Quality Standards (N.J.A.C.).

E1. RESPONSE: Additional groundwater sampling has been performed to further assess the potential for lead impacts to groundwater from the Former Gas Station at Former Building 2541. This additional sampling was described in the November 2015 (Revision 1) version of *Environmental Condition of Property Supplemental Phase II Site Investigation Work Plan for Parcels 28, 38, 39, 49, 57, 61, and 69, Fort Monmouth, Oceanport, Monmouth County, New Jersey*, which is also referred to as the ECP Work Plan. The ECP Work Plan was approved by NJDEP in their letter dated December 30, 2015. Recently (March 2016) one groundwater monitoring well was installed, developed and sampled for lead at the location where the highest detection of lead was found. Results will be reported within a supplemental ECP Phase II Site Investigation (SI) report.

With the previous NJDEP acceptance of Parsons ECP Work Plan, we believe that all parties are in agreement on Parcel 28. The technical Point of Contact (POC) for this matter is Cris Grill at (617) 449-1583 or by email at cris.grill@parsons.com. Should you have any questions or require additional information, please contact me by phone at (732) 380-7064 or by e-mail at william.r.colvin18.civ@mail.mil.

Sincerely,



William R. Colvin, PMP, PG, CHMM
BRAC Environmental Coordinator

cc: Linda Range, NJDEP (e-mail and 3 hard copies)
Delight Balducci, HQDA ACSIM (e-mail)
Joseph Pearson, Calibre (e-mail)
James Moore, USACE (e-mail)
Jim Kelly, USACE (e-mail)
Cris Grill, Parsons (e-mail)

FIGURE
Figure 1 - Layout of Parcel 28 and Sample Location

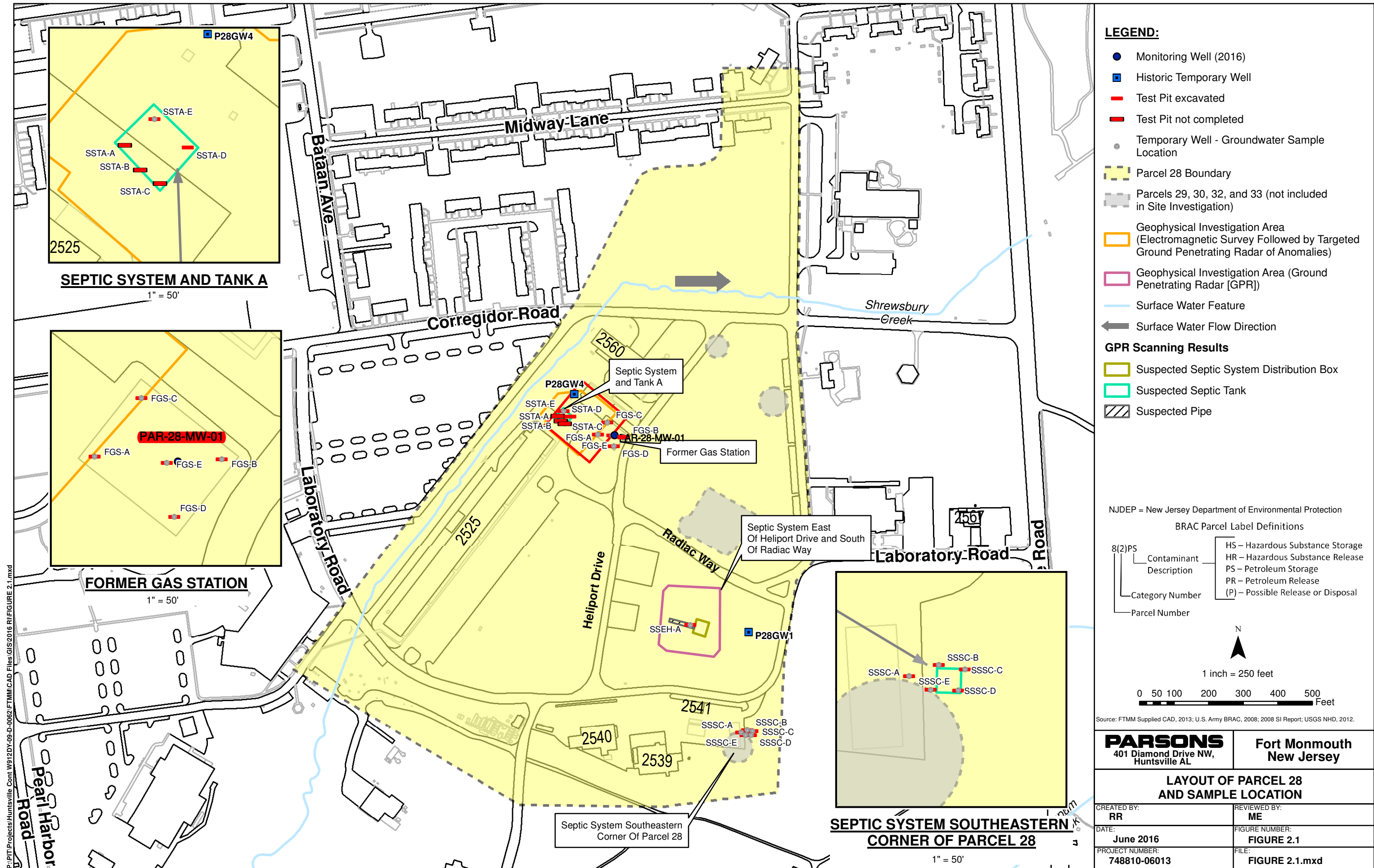


TABLE
Table 1 - Groundwater Sampling Results

TABLE 1
GROUNDWATER SAMPLING RESULTS
PARCEL 28
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Criteria	PAR-28-MW-01
Sample ID		PAR-28-GW-MW01-12.67
Sample Date		5/23/2016
Filtered		Total
Inorganics (µg/l)		
Lead	5	< 2.2

Footnote:

- 1) Number of Analyses is the number of detected and non-detected results excluding rejected results. Sample duplicate pairs have not been averaged.
- 2) NLE = no limit established.
- 3) ND = not detected in any background sample, no background concentration available.
- 4) Bold chemical detection

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

[blank] = detect, i.e. detected chemical result value.

B = Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

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

U-DL = Elevated sample detection limit due to difficult sample matrix.

U-ND = Analyte not detected in sample, but no detection or reporting limit provided.

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

D = Results from dilution of sample.

J-DL = Elevated sample detection limit due to difficult sample matrix.

JN = Tentatively identified compound, estimated concentration.

E (or ER) = Estimated result.

6) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.

- Cell Shade values represent a result that is above the NJ Ground Water Quality Criteria

####

NJDEP Interim Specific GWQC values are presented for the NJ GWQS where there is not a Specific Ground Water Quality Criteria. A full list of compounds is available at (http://www.nj.gov/dep/wms/bwqsa/gwqs_interim_criteria_table.htm).

NJDEP Interim Generic GWQC values are presented for the NJ GWQS where there is not a XXXXXX or a NJDEP Interim Specific GWQC. Available at (http://www.nj.gov/dep/wms/bwqsa/gwqs_interim_criteria_table.htm).

7) Criteria action level source document and web address.

- The NJ Ground Water Quality Criteria refers to the NJDEP Groundwater Quality Standards - Adopted July 22, 2010

<http://www.state.nj.us/dep/wms/bwqsa/docs/njac79C.pdf>