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

21 February 2017

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

Re: No Further Action Request
Site Investigation Report Addendum for ECP Parcel 35 Septic Tank at Pool Area and Suspected Underground Storage Tank at Former Building 2560
Fort Monmouth, New Jersey

Attachments:

A. Previous Parcel 35 Correspondence
B. Historical Drawings
C. Figure 2 Corregidor-Guam Area Test Pit Location Map (showing sample locations)
D. Test Pit Records (Photographs and Field Notes)
E. Soil Sampling Results (Table 1)
F. Groundwater Sampling Results (Table 2)
G. Locations of Exceedances of RDCSRS and GWQS
H. Laboratory Data Reports
I. Weston (1995) Site Investigation Report Excerpt (CW-5 Former Sanitary Treatment Plant)

Previous Correspondence (Attachment A):

1. NJDEP letter to Calibre Systems dated 29 April 2013, re: *Draft Finding of Suitability to Transfer (FOST) dated March 2013, Charles Wood Area, Fort Monmouth, New Jersey.*
2. U.S. Army letter to NJDEP dated 17 May 2013, re: *Proposed Test Pit Investigation Plan for Parcel 28 Historical Septic Tank Systems and Gas Station, Charles Wood Area, Fort Monmouth, New Jersey.*
3. NJDEP letter to the U.S. Army dated 3 June 2013, re: *Proposed Test Pit Investigation Plan for Parcel 28 Historical Septic Tank Systems & Gas Station, Charles Wood Area, Fort Monmouth, New Jersey.*

Dear Ms. Range:

The U.S. Army Fort Monmouth (FTMM) Team has reviewed and summarized the results of environmental investigations at the Environmental Condition of Property (ECP) Parcel 35 Septic

Tank at Pool Area and Suspected Underground Storage Tank at Former Building 2560 in this Site Investigation (SI) Report Addendum.

Correspondence 1 (**Attachment A**) includes New Jersey Department of Environmental Protection (NJDEP) comments on the 2013 Finding of Suitability to Transfer (FOST), indicating that NJDEP did not concur with the determination of no discharge for a former underground storage tank (UST) adjacent to Building 2560. Correspondence 2 describes the proposed test pit investigations for septic tank systems at adjacent Parcel 28 within the Charles Wood Area, and Correspondence 3 provides NJDEP approval of the Parcel 28 investigation. Investigation of the former septic tank system at nearby Parcel 35 was included in the Parcel 28 field investigations in July 2013 based on site similarity and proximity. Field investigation of the nearby suspected UST at Building 2560 was also provided at that time. A site background description and the results of the soil and groundwater sampling completed at the subject portions of Parcel 35 are summarized below.

1.0 SITE DESCRIPTION

Parcel 35 was originally identified in the 2007 ECP Report as a 59-acre area in the central portion of the Charles Wood Area of FTMM. An approximately 0.1 acre "carve-out" area requiring additional environmental investigation was identified in the 2013 FOST at the southeast corner of Corregidor Road and Guam Lane, and was designated as the "ECP Parcel 35 Septic Tank at Pool Area." The suspected UST at Building 2560 was also located within Parcel 35 but was not designated as a carve-out. Additional historical information for the subject sites is provided below.

A septic tank that was designated as "out of service" was identified on a 1948 utility plan for the Charles Wood Area (see **Attachment B**) just southeast of the intersection of the streets now known as Corregidor Road and Guam Lane. This septic tank was located north of the FTMM-27 Former Charles Wood Sanitary Treatment Plant (CW-5), which was previously approved for a No Further Action (NFA) determination by NJDEP in 1996, as discussed in the FOST. This septic tank was downstream of a 12-inch diameter vitrified clay pipe that may have been subsequently re-routed to the FTMM-27 sewage treatment plant, based on the drawing (**Attachment B**).

A suspected UST was identified near former Building 2560 on a 1956 gas distribution, gasoline and fuel storage drawing (provided in **Attachment B**). A feature designated in the drawing legend as an "oil storage tank" is located just west of Building 2560, a sewage treatment plant building that is no longer present. Based on the map designation and real property records, this UST was a fuel oil tank used for heating Building 2560. Therefore, the potential for soil or groundwater contamination at the location of the suspected UST at former Building 2560 was also evaluated in response to NJDEP's 29 April 2013 comments on the Phase 1 FOST (**Attachment A**).

Groundwater flow direction in this area is estimated to be towards the northeast, based on 1994 through 2001 quarterly groundwater monitoring performed at nearby UST 2562 (see the Building 2562 drawing in **Attachment B**). Groundwater was reportedly encountered approximately 4 feet below ground surface (ft bgs) at this location. UST 2562 was approved for No Further Action (NFA) by NJDEP in 2003 and the monitor wells were subsequently abandoned in 2005.

1.1 FIELD INVESTIGATIONS

To evaluate potential impacts from the septic tank, the Army excavated five test pits at the area labeled as "Former Septic System at Corner of Guam Lane and Corregidor Road," as shown in **Attachment C.** The soil and groundwater samples from these test pit locations A through E were subsequently designated as FFSGC-A through FFSGC-E. The test pits were completed on 8, 9, and 12 July 2013. Visual observations of soil were recorded and soil samples were also collected. Soil samples were collected directly from the test pits in accordance with the procedures described for Parcel 28 in the Army's 17 May 2013 Work Plan (**Attachment A**). Groundwater samples were collected (using a bailer) from temporary wells installed at all five test pit locations on 17 and 26 July 2013 using a Geoprobe rig. Test pit and groundwater sampling records, including photographs and field notes, are provided in **Attachment D**. The septic tank was not encountered in the test pits; however, materials observed in the test pits provided evidence of a former septic tank, including pea gravel and terra cotta pipe. Green glauconitic sand or clay was typically encountered in the bottom of the test pits at approximately 3 to 5 feet below ground surface (ft bgs), which represents native soil that likely extends into groundwater. One soil sample from each test pit was collected at a depth of 5 to 5.5 feet bgs, which was estimated to be within six inches of groundwater.

The Army also excavated four test pits at the area labeled as "Suspected Underground Storage Tank at Former Building 2560," as shown in **Attachment C.** The soil samples from these test pit locations A through D were subsequently designated as SUST-A through SUST-D. The test pits were completed on 9 and 12 July 2013. Visual observations of soil were recorded and collection of soil samples was also performed. Soil samples were collected directly from the test pits in accordance with the procedures described for Parcel 28 in the Army's 17 May 2013 Work Plan (**Attachment A**). Groundwater samples were collected with a bailer from temporary wells installed at two of the test pit locations (SUST-A and SUST-B) on 31 July 2013 using a Geoprobe rig. Test pit and groundwater sampling records, including photographs and field notes, are provided in **Attachment D**. There was no UST encountered in the test pits; however, black stained soil with petroleum odor was observed in test pit SUST-C, which was consistent with a former fuel oil UST at this location. Debris including concrete pieces and electrical conduit were only observed in test pit SUST-D, suggesting the presence of fill. Green glauconitic sand was encountered in the bottom of several test pits at approximately 5 to 6.5 ft bgs, which represents native soil that likely extends into groundwater.

1.2 ANALYTICAL RESULTS

Soil and groundwater samples from both the former septic tank and the suspected UST areas were analyzed for USEPA Target Compound List (TCL) plus Tentatively Identified Compounds (TICs)/Target Analyte List (TCL+TICs/TAL), which includes volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), metals (including hexavalent chromium), pesticides, and polychlorinated biphenyls (PCBs). The samples were also analyzed for fractionated extractable petroleum hydrocarbons (EPH) and pH. Analytical results are presented in Table 1 for soil (**Attachment E**), and Table 2 for groundwater (**Attachment F**). All detected results were compared to the NJDEP Residential Direct Contact Soil Remediation Standards (RDCSRS) and Impact to Ground Water (IGW) Soil Screening Level (SSL) for soil, and the NJDEP Ground Water Quality Criteria (GWQC) for groundwater. The results are discussed for each area below.

1.2.1 Septic Tank at Pool Area

Analytical results for soil samples FFSGC-A through FFSGC-E from the Parcel 35 Septic Tank at Pool Area are presented in Table 1 (**Attachment E**), and the associated analytical data packages are provided in **Attachment H**. EPH and PCBs were not detected in these soil samples. Detections of VOCs, SVOCs, and pesticides were below their respective RDCSRS. All metals except one (arsenic) were below their respective RDCSRSs. Arsenic was detected at two locations (FFSGC-B at 40.5 mg/kg, and FFSGC-D at 30.5 mg/kg; see Table 1) in excess of the RDCSRS concentration of 19 mg/kg.

The locations of RDCSRS exceedances are presented in **Attachment G**. The arsenic concentrations in soil are not believed to be indicative of a release for the following reasons:

- There are no identified sources of arsenic based on the former operations at Parcel 35.
- The detected arsenic concentrations are just above the RDCSRS (19 mg/kg), which is based on the natural background mean concentrations of arsenic in New Jersey. FTMM is located in an area with glauconitic soils that are known to have elevated natural arsenic concentrations, in some cases above the RDCSRS (Dooley, 2001; and Barringer, et al. 2014).
- Arsenic concentrations at Parcel 35 are within the range found in glauconitic soils in the New Jersey Coastal Plain. Dooley (2001) analyzed 113 glauconitic (whole) soil samples from the Coastal Plain and found that the arsenic concentration ranged from <0.26 parts per million (ppm) to 92.3 ppm, with a reported 9.5 ppm median and a 16.1 ± 18.8 ppm mean. Using the 371 ppm arsenic reported for one of the duplicates yielded a median arsenic concentration of 9.8 ppm with a 19.4 ± 38.5 ppm mean. The maximum concentration of arsenic at Parcel 35 was 40.5 mg/kg, which is well within the range encountered by Dooley (2001).
- Field observations from test pits FFSGC-B and FFSGC-D indicate that glauconitic sand and clay were present at Parcel 35.
- Exceedances of the arsenic RDCSRS in the two samples generally do not correlate with other metal or organic exceedances or occurrences.
- Only native soils were observed in test pit FFSGC-D, instead of debris or potential fill materials related to a septic tank. However, pea gravel was observed in FFSGC-B, which is likely attributable to the former septic tank.

Based on the analytical evidence from the five soil sample locations, the soil arsenic results are likely due to naturally occurring background soil conditions associated with glauconitic soils, rather than from a discharge of arsenic-bearing materials to soils through the former septic tank.

Aluminum, arsenic and beryllium were the only analytes detected in excess of their respective IGW SSLs. Arsenic and beryllium concentrations in glauconitic soils of the New Jersey Coastal Plain are known to be naturally elevated (Dooley, 2001). Further, there were no exceedances of the beryllium GWQC in site groundwater samples (discussed further below). Although we have not found documentation associating aluminum with glauconitic soils, in the absence of other metal contaminants, there is no implication of aluminum as a septic tank-related contaminant and no indication that a spill or release has occurred at this location.

Five groundwater samples (FFSGC-A through FFSGC-E) were collected from temporary monitoring wells installed within each test pit location. The groundwater samples were collected

with a bailer and analyzed for VOCs, SVOCs, metals, pesticides, PCBs, fractionated EPH, pH, hexavalent chromium, and cyanide. The groundwater sample results are presented in **Table 2 (Attachment F)**, and the associated analytical data packages are provided in **Attachment H**. The following observations were made from the groundwater analytical results:

- Pesticides, PCBs, hexavalent chromium and cyanide were not detected in any of the groundwater samples.
- One VOC (chlorobenzene) was detected in site groundwater but at concentrations well below the GWQS of 50 µg/L.
- Two SVOCs were detected in site groundwater (both compounds are phthalates), but only bis(2-ethylhexyl) phthalate was detected in one sample at a concentration (6.8 µg/L) that exceeded the GWQS of 3 µg/L. However, phthalates are common field and laboratory contaminants and, therefore, this result is likely not indicative of actual site contamination. For example, bis(2-ethylhexyl) phthalate was also sporadically detected above the GWQS in multiple wells at concentrations as high as 10.9 µg/L during historical monitoring at Installation Restoration Program (IRP) Site FTMM-66, but was not attributed to site contamination, as presented in the 2013 annual groundwater monitoring report for FTMM (Parsons, 2014). The low concentration of bis(2-ethylhexyl) phthalate in one Parcel 35 groundwater sample is not considered to be related to a release, is not a site-related Contaminant of Potential Concern (COPC) in groundwater, and is likely related to laboratory cross-contamination albeit at low levels.
- EPH was detected in one sample at 0.202 milligrams per liter (mg/L); however, a GWQS is not available for EPH. Therefore, EPH is not considered a site-related COPC in groundwater.
- As shown on **Table 2**, aluminum (306 to 7,650 µg/L) and arsenic (7.3 to 11.1 µg/L) were detected above their respective GWQS, but below the groundwater background values for the Charles Wood Area (Weston, 1995). Iron (52,200 to 71,600 µg/L), lead (6.5 to 13.6 µg/L) and manganese (285 to 399 µg/L) were detected above both the NJDEP GWQS and the Charles Wood Area background values (Weston, 1995). However, iron is considered an essential nutrient and therefore is not a COPC. Lead exceeded both the GWQS and background at one location (FFSGC-B). Manganese exceeded the GWQS and background at all 5 sample locations.
- Glauconitic soils were noted in the test pits (**Attachment D**). These types of soils typically contain elevated levels of metals including arsenic (Dooley, 1998 and 2001; and Barringer, et al. 2014), which can contribute to elevated concentrations in groundwater.

The locations of GWQS exceedances are presented in **Attachment G**. Since the groundwater samples were collected with a bailer from temporary wells, sample turbidity is likely to be a contributing cause of slightly elevated metal results, including iron, lead and manganese. Naturally-occurring elevated arsenic concentrations in soils and groundwater may also be due to glauconitic sand and clay found in the bottom of the test pits. Neither lead nor manganese exceeded the NJDEP IGW SSL in any soil sample (**Table 1**); therefore, it is unlikely that these metals represent contamination impacts to groundwater from site soils. Aluminum concentrations are elevated in background groundwater unaffected by site impacts (Weston, 1995) and therefore the aluminum exceedances are not indicative of a release at this site.

In summary, the laboratory results from this investigation indicate that the soil and groundwater were not significantly impacted by the Parcel 35 Septic Tank at Pool Area.

1.2.2 Suspected Underground Storage Tank at Former Building 2560

Analytical results for soil samples SUST-A through SUST-D from the Suspected UST at Former Building 2560 are presented in Table 1 (**Attachment E**), and the associated analytical data packages are provided in **Attachment H**. Detections of VOCs, SVOCs, pesticides, and metals (except arsenic) were below their respective RDCSRS.

Total EPH was measured in one soil sample (SUST-C) at 4,830 mg/kg, which (along with field observations of petroleum odor and stained soil at this location) suggests that a petroleum release had occurred in the past. However, the total EPH concentration is less than the NJDEP soil remediation standard of 5,100 mg/kg for fuel oil (NJDEP, 2010). The NJDEP (2010) requirement for contingency analyses of 2-methylnaphthalene and naphthalene was also satisfied, and these compounds were not detected. Several polynuclear aromatic hydrocarbons (PAHs) were detected in this sample; however, as reported above, there were no exceedances of RDCSRSs for individual SVOCs. These results appear consistent with a weathered fuel oil UST site. In summary, characterization of the suspected fuel oil UST for soil EPH and contingency analyses is complete.

PCB and arsenic were also detected in soil above their respective RDCSRSs. Aroclor-1260 was detected in one soil sample (SUST-D) at a concentration of 0.241 mg/kg, which is just above the RDCSRS of 0.20 mg/kg. Observations from test pit SUST-D were consistent with fill material (including debris such as concrete pieces and electrical conduit) which could be associated with the exceedance of the RDCSRS for PCBs. Fill material was not observed and PCBs were not found above the RDCSRS in the other three test pit samples (SUST-A, SUST-B, and SUST-C). The PCB exceedance at SUST-D is generally delineated towards the north, west and south by the other three test pit samples and is bounded to the east by the physical boundary of former Building 2560 and the former wastewater treatment plant as shown on the historical drawings in **Attachment B**. Two soil borings were sampled within the CW-5 former wastewater treatment plant during the Weston (1995) SI and analyzed for PCBs (**Attachment I**). These borings were located approximately 250 feet east from the SUST-D test pit, and therefore provide a distant analytical boundary for the PCB in soil and the fill/debris detected in the SUST-D test pit.

Arsenic was also detected at soil sample location SUST-D (39 mg/kg; see Table 1) in excess of the RDCSRS concentration of 19 mg/kg. Considering similar evidence as previously presented for the Septic Tank at the Pool Area (Section 1.2.1), the arsenic concentration is likely due to glauconitic soils which are present in natural soils at the site.

Aluminum, arsenic, beryllium and silver were the only analytes detected in excess of their respective IGW SSLs. However, these metals are not indicative of fuel oil contamination but are more likely attributable to glauconitic soils or naturally-occurring elevated background conditions.

In summary, there is no historical documentation or record of a spill or release at this site and arsenic is attributable to the naturally occurring glauconitic soils at the site. However, the test pit observations and soil analyses suggest that a release has occurred at the fuel oil tank but the residual petroleum contamination is below the NJDEP soil remediation standard. The slightly elevated PCBs in soil are likely associated with the fill or debris rather than the Suspected UST at Former Building 2560. Additional measures are warranted for this PCB occurrence as described in Section 1.3.

Two groundwater samples (SUST-A and SUST-B) were also collected from temporary monitoring wells installed within each of these two test pit locations. The groundwater samples were collected with a bailer and analyzed for VOCs, SVOCs, metals, pesticides, PCBs, fractionated EPH, pH, hexavalent chromium, and cyanide. The groundwater sample results are presented in **Table 2 (Attachment F)**, and the associated analytical data packages are provided in **Attachment H**. The following observations were made from the groundwater analytical results:

- VOCs, EPH, pesticides, PCBs, hexavalent chromium and cyanide were not detected in any of the groundwater samples.
- One SVOC (bis[2-ethylhexyl] phthalate) was detected at a concentration below the GWQS of 3 µg/L.
- Aluminum (1,500 to 6,130 µg/L), arsenic (12.5 µg/L) and manganese (78.7 to 99.3 µg/L) were detected above their respective GWQS but below the Charles Wood Area background values (8,210, 25.1, and 232 µg/L, respectively; see **Table 2**) from Weston (1995). Chromium (82.5 µg/L), iron (8,010 to 25,900 µg/L), and lead (7.6 µg/L) were detected above both the NJDEP GWQS and the Charles Wood Area background values.
- Glauconitic soils were noted in the test pits (**Attachment D**). These types of soils typically contain elevated levels of metals including arsenic and chromium (Dooley, 1998 and 2001; and Barringer, et al. 2014), which can contribute to elevated concentrations in groundwater.

The locations of GWQS exceedances are presented in **Attachment G**. Since the groundwater samples were collected with a bailer from temporary wells, sample turbidity is likely to be a cause of the elevated metal concentrations in groundwater. Furthermore, glauconitic soils were noted in the area, and therefore naturally-occurring elevated metals concentrations are also expected to contribute to the arsenic and chromium concentrations in groundwater.

The laboratory results from this investigation indicate that the groundwater was not impacted by the suspected fuel oil UST at former Building 2560.

1.3 ADDITIONAL MEASURES AT SUST-D

Additional measures are warranted to address the PCB in the soil and fill/debris encountered in the SUST-D test pit. One location with observations of fill with debris and slightly elevated PCBs in soil were encountered at the SUST-D test pit, as described in Section 1.2.2. Concrete rubble and electrical conduit were observed at approximately 5 to 5.5 ft bgs in this test pit, and PCBs were detected in soil at a concentration slightly above the RDCSRS. Additional action is warranted at this location, such as step-out soil sampling to delineate the PCB occurrence, or removal of the fill and post-excavation sampling of soil for PCBs. The additional measures will be planned and executed in conjunction with other FTMM environmental characterization and/or remediation activities and in coordination with NJDEP.

1.4 SUMMARY

In summary, we request No Further Action determinations for the Parcel 35 Septic Tank at Pool Area, and the Suspected Underground Storage Tank at Former Building 2560. Additional measures will be taken to address the PCB in soil and fill/debris encountered in the SUST-D test pit, as described in Section 1.3. The technical Point of Contact (POC) for this matter is Kent

Friesen at (732) 383-7201 or by email at kent.friesen@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, PMP, CHMM, PG
BRAC Environmental Coordinator

cc: Linda Range, NJDEP (3 hard copies)
Delight Balducci, HQDA ACSIM (CD)
Joseph Pearson, Calibre (CD)
James Moore, USACE (CD)
Jim Kelly, USACE (CD)
Cris Grill, Parsons (CD)

REFERENCES CITED:

Army. 2013. *Finding of Suitability to Transfer (FOST), Fort Monmouth, New Jersey, Charles Wood Area.* August.

Barringer, J.L., Reilly, P.A., Eberl, D.D., Mumford, A.C., Benzel, W.M., Szabo, Zoltan, Shourds, J.L., and Young, L.Y. 2014. *Arsenic in New Jersey Coastal Plain streams, sediments, and shallow groundwater: Effects from different geologic sources and anthropogenic inputs on biogeochemical and physical mobilization processes.* U.S. Geological Survey Scientific Investigations Report 2013–5107, 38 p., http://dx.doi.org/10.3133/sir20135107.

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NJDEP. 2010. *Protocol for Addressing Extractable Petroleum Hydrocarbons.* Site Remediation Program. Version 5.0, August 9.

Parsons. 2014. *Final August 2013 Baseline Groundwater Sampling Report*. March.

United States (U.S.) Army Base Realignment and Closure (BRAC). 2008. *Site Investigation Report Fort Monmouth.* Final. July 21.

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

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:

- "No Further Action Request, Site Investigation Report Addendum for ECP Parcel 35 Septic Tank at Pool Area and Suspected Underground Storage Tank at Former Building 2560, Fort Monmouth, New Jersey" (February 2017)

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: William R. Colvin Date: 21 February 2017

Name/Title: William R. Colvin, PMP, CHMM, PG
BRAC Environmental Coordinator

Attachment A

Previous Parcel 35 Correspondence

State of New Jersey

CHRIS CHRISTIE
Governor

KIM GUADAGNO
Lt. Governor

DEPARTMENT OF ENVIRONMENTAL PROTECTION
Bureau of Case Management
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Trenton, NJ 08625-0028
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BOB MARTIN
Commissioner

April 29, 2013

Joe Pearson
Calibre Systems
1119 Canterbury Dr.
Lansdale, PA 19446

Re: Draft Finding of Suitability to Transfer (FOST) dated March 2013
Charles Wood Area
Fort Monmouth, New Jersey
PI G000000032

Dear Mr. Pearson:

The New Jersey Department of Environmental Protection (Department) has completed review of the referenced document, submitted in support of the suitability for transfer of the bulk of Parcels B, C1, C, F, Howard Commons, and the Golf Course Parcel, the majority of which are contained within the property known as the Charles Wood Area. Parcel B is located on the western portion of the Main Post. The following comments are offered.

Section 2. Property Description
Page 2, paragraph 2, as you indicated on April 22, 2013, the reference to Area 400 is to be removed. Also on page 2, in the midpoint of paragraph 2, it is indicated the southeast corner of CWA was developed for R&D. Shouldn't this read south*west*?

Section 4. Environmental Condition of Property
Parcel 28 – The narrative indicates some parts of this parcel remain a Category 7 (which are further explained in Section 5.2), or are not categorized. It does not appear the uncategorized area of Parcel 28 (the location of a former UST) is described anywhere within the document, nor is documentation regarding sampling of this area available; sampling is recommended. Additionally, former USTs 2542-29 and 2564-32, although referenced as no release or no contamination observed, were apparently not evaluated via sampling. Therefore, this office cannot concur with the determination there was no discharge in these areas. The Department recommends sampling in accordance with applicable NJDEP regulations and guidance documents.

Parcel 35 – As indicated in previous (July 23, 2012) correspondence, it was determined Appendix O of the January 2007 ECP Report indicated the presence of a former UST as adjacent to Building 2560. As no evaluation of the UST has apparently been performed in accordance with applicable NJDEP regulations and guidance documents, the Department is unable to concur with the determination there was no discharge in the area of this UST, and is therefore unable to concur with the designation of Category 1 in the area of the UST.

Parcel 36 –UST 1203 is listed in Enclosure 5, Table 3, page 6 as being removed on November 1, 2009. Although the Table states "no indication of release", the evaluation report does not appear to have been submitted. Therefore, the Department is unable to concur with the determination there was no discharge or designation of Category 1 in the area of this UST.

Section 4.1.1 Installation Restoration Program
Golf Course PCB Site (CW-7) – FTMM-29 – page 9, third and fourth lines – It is suggested the sentence beginning on line three be reworded to read similar to "A draft deed notice has been submitted to and approved by the NJDEP on January 31, 2013, and is to be filed once the property actually transfers." Regarding the fourth line, the NJDEP has not issued a Conditional NFA letter, but rather an approval of the draft deed notice, which is to be filed upon property transfer (followed by application for Remedial Action Permit).

Section 4.3.1 Underground and Above-Ground Storage Tanks (UST/AST)
Reported Releases from USTs – page 13 – Building 2044 was listed in previous reports as a Pesticide Storage Building, rather than Residential. Building 2067 should be included, as Appendix G indicates results from the tank investigation initially exhibited TPH to 20,800 ppm in the soil, prior to receiving a Closure Approval designation on January 10, 2003.

Section 4.4 Polychlorinated Biphenyls (PCB)
Officer's Club, Building 2000, Page 14 – The 0.049 and 2 milligrams per kilogram (mg/kg) referenced represent the Residential Direct Contact *Soil Cleanup Criteria* (RDCSCC) and Non-Residential Direct Contact *Soil Cleanup Criteria* (NRDCSCC). The approved draft Deed Notice will be *filed* once the property has been transferred.

Section 5.1 Carve Out Areas Needing Further Remediation
Wastewater Treatment Lime Pit (CW-1) – FTMM-22 – page 23, 3rd paragraph, 2nd to last sentence - The document seems to indicate the lime pit has been entirely removed during demolition activities. The base of the pit, however, I believe remains in place at this time.

Enclosure 3, Table 1 – Description of Property
Parcel 28, page 3, Remedial Actions – It is agreed ten former fuel oil USTs received designations of no further action necessary. As indicated in the February 22, 2013, correspondence, however, USTs 2564-32 and 2542-29, although reportedly evidencing no visual

contamination, do not appear to have been sampled; therefore, this office cannot concur with the designation of no discharge, nor concur with a Category 1 designation for the area of these two USTs. The Department believes sampling is necessary. Additionally, no mention is made nor description provided of the non-categorized area within the parcel shown in the Site Map in Enclosure 1; again, sampling is warranted.

AAFES Gasoline Station (FTMM-58)- page 5 – Second to last sentence under the *Remedial Actions* column – "....are considered non-impacted and *are* part of this FOST and are considered a Category 1." The Category should read Category 2, rather than Category 1, correct? If this is not accurate, please provide the date of DEP concurrence.

Child Development Center, Teen Center, Pool and Former Sewage Treatment Plant – page 5 – The septic tank in need of investigation, and which is not included in this FOST/transfer (carve-out), is not referenced under the Remedial Actions column, as carve-outs are in the other parcels. As noted, this office cannot concur with the designation of no discharge, nor concur with a Category 1 designation, relative to the area of the UST noted on Appendix O of the January 2007 ECP Report as adjacent to Building 2560, without evaluation in accordance with the applicable NJDEP regulations and guidance documents.

Military Army Prep School and Offices – page 6 – The UST previously located at Building 1203 was reportedly removed on November 1, 2009. Although no evidence of a discharge was apparently evident, unless all tanks, former or current, have been evaluated in accordance with the applicable regulations and guidance documents (including submittal of documentation for review), the NJDEP cannot concur with the designation of no discharge, nor concur with a Category 1 designation for the area of the former UST.

Enclosure 4, Table 2 – Notification of Hazardous Substance Storage, Release or Disposal
FTMM-29 (CW-7) – page 1 - Remedial Actions – The fourth and fifth lines reference residential and industrial *screening* criteria. Please change the phrasing to read *cleanup* criteria rather than screening criteria.

Building 2700 (ECP Parcel 15) – page 1- does the former PCB transformer area not require inclusion on this table?

2700 Meyer Center (FTMM-22 – CW-1) – page 2 – Remedial Actions – first two words should read "Quality Standards", rather than "Quality Criteria". Line 14 – typo; "area" should read "are".

Enclosure 5, Table 3 – Notification of Petroleum Product Storage, Release, or Disposal
Former USTs 2542-29 and 2564-32, on Parcel 28, are listed as no release or contamination observed, however, no sampling was apparently performed. No report of evaluation was submitted for former UST UST-2544 on Parcel 28 (non-characterized area Enclosure 1), nor for UST-2560 on Parcel 35, which are not included on the Table, nor apparently for UST-1203 on Parcel 36. As previously indicated, without same, the Department is unable to concur with the determination that no discharge was associated with these USTs.

Page 2 – Building 2067-37 – Date and Remedial Action - Appendix G of the US Army BRAC 2005 ECP Final Report dated January 27, 2007 (Appendix G) indicates the UST, as well as contaminated soil, were removed on May 16, 1994; the NJDEP Closure Approval is dated January 10, 2003.

Page 2 – Buildings 2231 through 2240 & Building 2260 – These buildings were contained within that portion of Parcel 35 previously transferred.

Enclosure 8 Environmental Protection Provisions

1.A.2) Land Use Restriction – third and fourth lines – change "Soil Remediation Standards" to "Soil Cleanup Criteria", as these were the criteria in effect at the time of remedial activities and approval.

EPP Attachment 1

Site Maps – Land Use Restriction Map – Gibbs Hall Building 2000 – As above, the remediation numbers applicable to the area of concern at the time of remediation were the Residential and Non-Residential *Soil Cleanup Criteria*, rather than the Soil Remediation Standards. Please change line two of the figure's title (to reflect RDCSCC Limit = 0.49 mg/kg), as well as that within the parenthesis beneath the "Legend" box (to reflect "Area Outside of Proposed Deed Notice Boundary Meets NJDEP RDCSCC").

Please contact this office if you have any questions.

Sincerely,

Linda S. Range

C: Wanda Green, BRAC Environmental Coordinator
Rich Harrison, FMERA
Julie Carver, Matrix

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

May 17, 2013

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: Proposed Test Pit Investigation Plan for Parcel 28 Historical Septic Tank Systems and Gas Station, Charles Wood Area, Fort Monmouth, New Jersey

Attachments:

A. Correspondence Letter from NJDEP dated July 10, 2012
B. Figures:
   Figure 1 Proposed Test Pit Location Map
   Figure 2 June 30, 1944 Hand-Drawn Sketch of the Charles Wood Area
   Figure 3 May 2, 1957 Aerial Photograph
   Figure 4 May 13, 1963 Aerial Photograph

Dear Ms. Range:

In response to the NJDEP's July 10, 2012 correspondence letter (provided in Attachment A), the U.S. Army proposes to conduct a test pit investigation at Parcel 28 of the Charles Wood Area of Fort Monmouth. The purpose of the investigation is to evaluate subsurface conditions at three former septic systems (referenced in the July 10, 2012 NJDEP letter) and one former gas station (not referenced in the July 10, 2012 NJDEP letter) at Parcel 28. The test pit investigation will be conducted in accordance with:

1) Section 3.6.8 (Waste and Wastewater Treatment Systems) of the August 1, 2012 *Technical Guidance for Site Investigation of Soil/Remedial Investigation of Soil/Remedial Action Verification Sampling for Soil*
2) Sections 7:26E-3.4 and 7:26E-3.5 of the NJDEP's May 7, 2012 *Technical Requirements for Site Remediation*
3) August 2005 *Field Sampling and Procedures Manual.*

Referenced below is a line by line response in bold print to each NJDEP comment regarding Parcel 28 as stated in the July 10, 2012 correspondence letter:

Septic System and Leach Field East of Heliport Drive, South of Radiac Way

NJDEP Comment
It is agreed the four test pits were adequate for characterization of the leach field; no additional action is necessary for the leach field. It does not appear, however, the suspected distribution 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.

Army Response
The Army believes all septic system components were removed from this area during renovation of the buildings associated with the Eatontown Laboratories, circa 1951. In an effort to determine the composition of the waste stream that entered the septic tank and distribution box, the Army proposes to dig a test pit to the depth of the groundwater table in the area where the former septic holding tank and distribution box were located. If sludge is encountered in the excavation, a sludge sample as well as a groundwater sample will be collected and submitted to an NJDEP-certified laboratory for U.S. Environmental Protection Agency (USEPA) Target Compound List (TCL) and Target Analyte List (TAL) analysis. If no sludge is encountered in the excavation, a soil sample within six inches of the groundwater table in addition to a groundwater sample will be collected and submitted to an NJDEP-certified laboratory for USEPA TCL and TAL analysis. A summary report detailing the findings of the test pit investigation, including all photodocumentation, will be submitted to the NJDEP.

Septic System & Septic Tank A

NJDEP Comment
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 leach field. 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 [N.J.A.C. 7:26E-3.9(e)3]? As regarding the associated leach field, a minimum of 4 samples are required. A single soil and single groundwater sample is inadequate.

Army Response
The Army believes all septic system components were removed from this area during renovation of the buildings associated with the Eatontown Laboratories, circa 1951. In an effort to determine the composition of the waste stream that entered the septic tank and associated leach field, the Army proposes to dig one test pit in the area where the former septic holding tank was located and four test pits in the area where the former septic system leach field is located. All test pits will be excavated to the depth of the groundwater table. If sludge is encountered in any of the excavations, a sludge sample as well as a groundwater sample will be collected and submitted to an NJDEP-certified laboratory for USEPA TCL and TAL analysis. If no sludge is encountered, a soil sample within six inches of the groundwater table in addition to a

groundwater sample will be collected from each test pit and submitted to an NJDEP-certified laboratory for USEPA TCL and TAL analysis. A summary report detailing the findings of the test pit investigation, including all photodocumentation, will be submitted to the NJDEP.

Septic System at Southeastern Corner of Parcel 28

NJDEP Comment
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.

Army Response
The Army believes all septic system components were removed from this area during renovation of the buildings associated with the Eatontown Laboratories, circa 1951. In an effort to determine the composition of the waste stream that entered the septic tank and associated leach field, the Army proposes to dig one test pit in the area where the former septic holding tank was located and four test pits in the area where the former septic system leach field is located. All test pits will be excavated to the depth of the groundwater table. If sludge is encountered in any of the excavations, a sludge sample as well as a groundwater sample will be collected and submitted to an NJDEP-certified laboratory for USEPA TCL and TAL analysis. If no sludge is encountered, a soil sample within six inches of the groundwater table in addition to a groundwater sample will be collected from each test pit and submitted to an NJDEP-certified laboratory for USEPA TCL and TAL analysis. A summary report detailing the findings of the test pit investigation, including all photodocumentation, will be submitted to the NJDEP.

Former Storage Areas/Possible Former Tank Pads

NJDEP Comment
This area received a designation of No Further Action on March 29, 2012.

Army Response
The Army acknowledges the NJDEP's NFA designation for this area.

Former Parcel 28 Gas Station (Not Referenced in July 10, 2012 NJDEP Letter)

According to a June 30, 1944 hand-drawn sketch of the Charles Wood Area (**Figure 2**), former building 2541 is depicted as "gas station". The structure depicted as a gas station on the sketch is also present on a May 2, 1957 aerial photograph (**Figure 3**) of the area. In a subsequent May 13, 1963 aerial photograph (**Figure 4**), the "gas station" structure is no longer present. No other records regarding former building 2541 could be found. The Army believes the former Bldg. 2541 gas station depicted on the sketch and aerial photographs was demolished during renovation/reconfiguration of the Charles Wood Area, circa 1957-1963. The building number 2541 has since been reused, and is currently the building number of a warehouse at the Charles Wood Area.

In an effort to determine if any remnants of the gas station remain, including any underground storage tanks, piping, and any historical discharge that may have occurred, the Army proposes to

dig five test pits to the depth of the groundwater table in the area where the former gas station was located. Excavated soil from each test pit will be visually examined and scanned with a photoionization detector. If visually stained soil or soil with field-detectable volatile organic compounds are encountered at a test pit location, three samples will be collected: a soil sample from the impacted area, a soil sample within six inches of the groundwater table, and a groundwater sample. If no impacted soil is encountered, only two samples will be collected: a soil sample within six inches of the groundwater table and a groundwater sample. All samples will be submitted to an NJDEP-certified laboratory and analyzed for volatile organic compounds with a library search of the fifteen highest tentatively identified compounds (VO+15) plus lead. If any underground storage tanks or piping are encountered, these items will be removed from the subsurface with soil and groundwater sampling conducted in accordance with N.J.A.C. 7:26E and the regulations regarding closure of a UST system N.J.A.C. 7:14B). A summary report detailing the findings of the test pit investigation, including all photodocumentation, will be submitted to the NJDEP.

The Army requests that the NJDEP issue a formal approval letter for the proposed test pit investigation plan.

Should you have any questions or require additional information, please contact me at (732) 380-7064 or by email at wanda.s.green2.civ@mail.mil.

Sincerely,

Wanda Green

Wanda Green
BRAC Environmental Coordinator

Enclosures

Parcel 28 Attachments ommitted 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

June 3, 2013

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

Re: Proposed Test Pit Investigation Plan for Parcel 28 Historical Septic Tank Systems & Gas Station
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 submittal, dated May 17, 2013. The submittal details the additional proposed investigative activities for the three former septic systems located within Parcel 28 (discussed in this office's July 10, 2012 correspondence), as well as the former gas station identified in the 1944 sketch, as previously discussed and included in the referenced submittal.

Sampling frequency and location proposals are acceptable, however, the proposed analytical parameters for all samples collected relative to the septic systems require modification to ensure each of the following is included. In accordance with N.J.A.C. 7:26E-2.1(c)1ii, analytical parameters for all media are to include Target Compound List plus TICs/Target Analyte List (TCL + TICs/TAL), hexavalent chromium, extractable petroleum hydrocarbons (EPH), and pH, as the former wastestream contaminants are unknown or not well documented.

The investigation of the former gas station, as proposed, is acceptable.

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

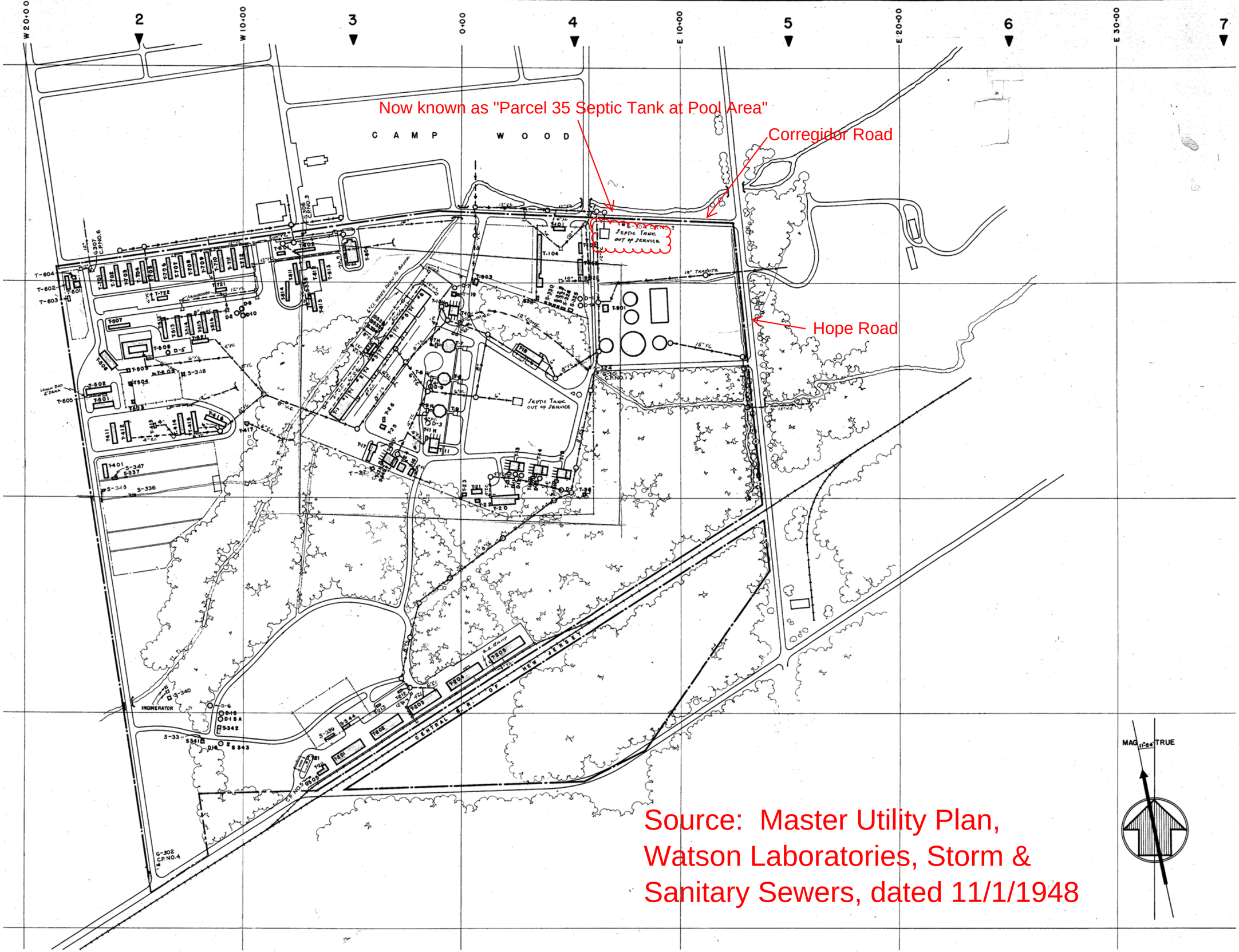
Sincerely,

Linda S. Range
Bureau of Case Management

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

Attachment B

Historical Drawings



Source: Master Utility Plan, Watson Laboratories, Storm & Sanitary Sewers, dated 11/1/1948

Corregidor Road

Hope Road

12"VC
12"VC
4"AC
T-101
10"
T-104
T-102
T-103
24"VC
10" TRANSITE
S-803
10"
S-328
S-330
S-329
S-326
S-325
S-331
T-901
12" CONC.
F18
6"
8"VC
15"VC
S-324
G-301
C.P.NO.1
15"V.C.
6"
SEPTIC TANK
OUT OF SERVICE
G-304 C.P.NO 2
SEPTIC TANK
OUT OF SERVICE

Source: Master Utility Plan, Watson Laboratories, Storm & Sanitary Sewers, dated 11/1/1948

Suspected Underground Storage Tank at Building 2560

COLIN KELLY FIELD

LODGE LANE

KENNILL ROAD

WAKE ROAD

TYPICAL SERVICE LAYOUT
SCALE 1" 30'

magnetic north
bearings refer to true north

Lagoon

Edgerton Boro of Education

Without Leased property Line

Government property Line

APARTMENTS M-10
GARAGES 3200

EATONTOWN GARDENS (WHERRY ACT HOUSING)

LEGEND

- GAS DISTRIBUTION LINES
- VALVE
- DRIP
- OIL STORAGE TANK

NOTE:
THIS PLAN SUPERSEDES ALL PREVIOUS ISSUES BEARING THE SAME PLAN NUMBER.

REVISION REMARK	DATE	BY
CAPEHART, 2ND H	21 MAY 58	F.F.E.
CAPEHART, 3RD H	26 OCT '60	R.O.C.

OFFICE OF THE POST ENGINEER
FORT MONMOUTH N.J.

GAS DISTRIBUTION, GASOLINE & FUEL STORAGE, CHARLES WOOD AREA

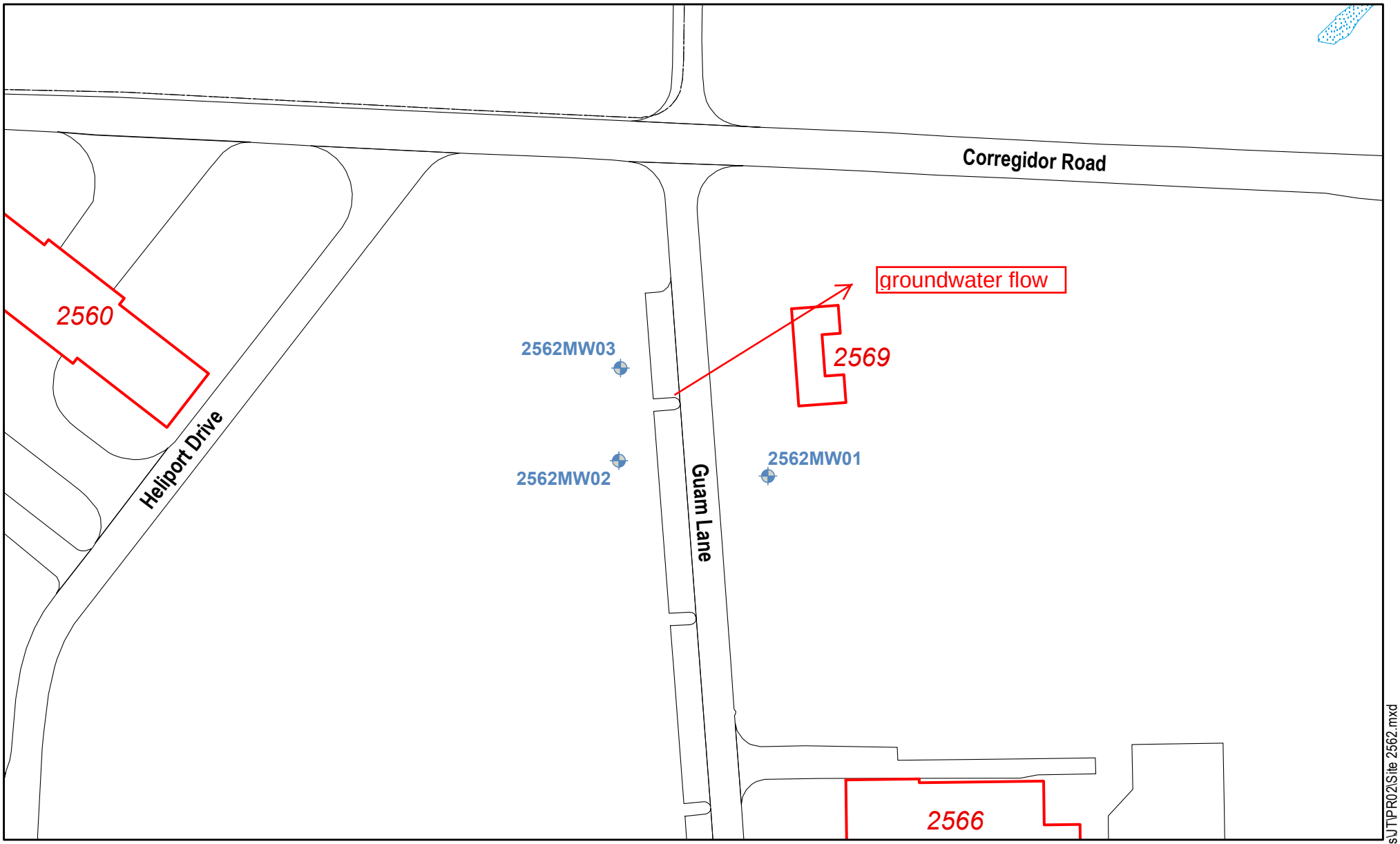
SCALE: 1"= 200' DATE: 16 JAN 1956

PREPARED UNDER THE DIRECTION OF
Norman A. Beach

NORMAN A. BEACH
LT. COL. C.E.
POST ENGINEER

DRAWN BY: J.A.Q
CHECKED BY: F.T.M.
SUBMITTED BY: C.

PLAN NO. 520



Bldg 2562
Charles Wood
Fort Monmouth, New Jersey

N
W E
S

0 50 100 200 Feet

NAD 83, NJ State Plane Feet

Map Created by:
Fort Monmouth Installation GIO, Environmental Division
Fort Monmouth, New Jersey
Date: August 16, 2010

Legend

- Monitoring Well - Abandoned
- Monitoring Well - Active
- Recovery Well
- Soil Vapor Extraction Point
- Sparge Point
- Vapor Point
- Irrigation Well
- Roadway & Parking
- Existing Structure
- Demolished Structure
- Landfill Area
- Water Body
- Post Boundary

All features in the legend may not appear in the map.

August 16, 2010 X:\GIS\GIS Maps\JT\PR02\Site 2562.mxd

Attachment C

Figure 2 Corregidor-Guam Area Test Pit Location Map (showing sample locations)

Figure 2 Corregidor-Guam Area Test Pit Location Map

Attachment D

Test Pit Records (Photographs and Field Notes)

1. IMG001 Test Pit FFSGC-C during excavation. View facing south; Building 2569 on the left.

2. IMG002 Test Pit FFSGC-C. Field notes indicated “Burnt wood, fill dirt with black organic material, glauconitic clay, no odor + terracotta pipe section.”

3. IMG003 Test Pit FFSGC-C.

4. IMG004 Test Pit FFSGC-E during excavation. View facing southwest.

5. IMG005 Test Pit FFSGC-E. Field notes indicated "Terracotta pipe, brown-green glauconitic sand with clay, burnt wood pieces."

6. IMG006 Test Pit FFSGC-E.

7. IMG007 Test Pit FFSGC-E. Buried terracotta pipe shown on right.

8. IMG008 Test Pit FFSGC-E.

9. IMG009 Test Pit FFSGC-E.

10. IMG010 Test Pit FFSGC-D. Facing south; Building 2569 and pool in background.

11. IMG011 Test Pit FFSGC-D. Field notes indicate "Brown-green glauconitic sand and clay with dark black-brown natural clay at 4.5 ft, no odor or debris."

12. IMG012 Test Pit FFSGC-D.

13. IMG013 Test Pit FFSGC-B, facing southwest, with backfilled Test Pits FFSGC-E and FFSGC-C in background.

14. IMG014 Test Pit FFSGC-B. Field notes indicate “pea gravel mixed with brown-orange fill sand, glauconitic clay at 4.5 feet.”

15. IMG015 Setting up at SUST-B, view towards southwest.

16. IMG016 Test Pit SUST-B.

17. IMG017 Excavating Test Pit SUST-C; Test Pit SUST-B has been backfilled to the right.

18. IMG018 Test Pit SUST-C. Field notes indicate "Brown medium sand with petroleum odor at 4.5 feet, and black-gray stained soil." Soil sampled at 5.0 to 5.5 feet.

19. IMG019 Soil stockpile from Test Pit SUST-C.

SSSC-A (6-6.5)
11:00
abundant elec/tel conduit here, and to
fine sand w/ odor.
PID ~ 6-6.5)

SSCH-A (7.5-8.0)
11:30
fine sand - brown
PID ~ 8.5

FFSGC-C (5.0-5.5) 07/09/13
09:00
Burnt wood, fill dirt
w/ black organic material,
glauconite + clay, n. odor
+ terracotta pipe section

FFSGC-A (5.0-5.5)
09:30
~~tree roots~~, gravel, orange-brown fine sand.
mixed w/ white-gray med. sand.

FFSGC-E (5.0-5.5)
10:00
terracotta pipe, brown-green
glauconitic sand w/ clay,
burnt wood pieces

FFSGC-D (5.0-5.5)
11:30
brown-green glauconitic sand
and clay with dark brown-
brown natural clay at 4.5 ft
no odor or debris

FFSGC-B (5.0-5.5)
11:00
- Pea gravel mixed w/ brown-orange f/f sand.
- Gravel/cobbles clay at 4.5'

SUST-A (5.0-5.5)
11:15
Gravelly sand w/ some bricks.

SUST-B (5.0-5.5)
11:20
Gravelly sand w/ some bricks

SUST-C (5.0-5.5) 08:30
- brown-red sand w/ petroleum odor at 4.5 ft, and black-oily stained soil.

SUST-D (5.0-5.5) 08:45
- brown-red sand w/ bits of brick - concrete pieces, abundant elect. conduit, no odor

FGS-A (6-6.5) 09:00
- 0-3 ft. orange-brown f/f sand
- 3-6 ft. green brown gravelly sand w/ trace roots - 7.5 YR 4/4 moist.
no odor

FGS-B (6-6.5) 09:30
- 0-3 ft. orange-brown f/f sand
- 3-6 ft. - green black gravelly sand, no odor.

Location _____ Date 07/17/13

Project / Client _____

SSSC-B-6W 08:30
7/17/13

SSSC-E-6W 09:50
07/17/13

SSSC-A-6W 10:00
07/17/13

- ~~Examples~~ for metes + bounds descriptions following with Charlie on signed authorization adjusted Lot acreage to agreement.

Location _____ Date _____

Project / Client _____

FFSGC-A-6W
10:50
07/17/13

FFSGC-B-6W
09:06
7/26/13

FFSGC-D-6W
09:45
07/26/13

FFSGC-C-6W
10:20
07/26/13

FFSGC-E-6W
11:00
07/26/13

07/31/13

SSEL-A-GW
08:10

SUST-A-GW 07/31/13
08:30

SUST-B-GW
09:30 07/31/13

SSTA-E-GW
08:30 08/02/13

FGS-A-GW
09:30 08/02/13

~~FGS-A(DUP)~~ 09:10 DUP

FGS-B-GW 08/02/13
10:00

FGS-C-GW 08/02/13
10:30

FGS-D-GW 08/02/13
11:00

FGS-E-GW 08/03/13
11:30

FIELD OBSERVATIONS

Field Notes from 7/8/13 and 7/9/13 concerning the Septic Tank at Pool Area:

FFSGC-A (5.0 – 5.5): Tree roots, gravel, orange-brown fill sand, mixed with white-gray medium sand.

FFSGC-B (5.0 – 5.5): Pea gravel mixed with brown-orange fill sand, glauconitic clay at 4.5 ft.

FFSGC-C (5.0 – 5.5): Burnt wood, fill dirt with black organic material, glauconite and clay, no odor, and terracotta pipe section.

FFSGC-D (5.0 – 5.5): Brown-green glauconitic sand and clay with dark black-brown natural clay at 4.5 ft., no odor or debris.

FFSGC-E (5.0 – 5.5): Terracotta pipe, brown-green glauconitic sand with clays, burnt wood pieces.

Field Notes from 7/9/13 and 7/12/13 concerning the Suspected Underground Storage Tank at Former Building 2560:

SUST-A (5.0 – 5.5): Glauconitic sand

SUST-B (5.0 – 5.5): Glauconitic sand

SUST-C (5.0 – 5.5): Brown medium sand with petroleum odor at 4.5 ft, and black-gray stained soil

SUST-D (5.0 – 5.5): Brown-medium sand with lots of debris – concrete pieces, abundant electrical conduit; no odor.

Attachment E

Soil Sampling Results (Table 1)

TABLE 1
DETECTED SOIL SAMPLING RESULTS COMPARISON TO NEW JERSEY ACTION LEVELS
PARCEL 35
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)	FFSGC-A	FFSGC-B	FFSGC-C	FFSGC-D	FFSGC-E	SUST-A	SUST-B	SUST-C	SUST-D
Sample ID					FFSGC-A 5.0-5.5	FFSGC-B 5.0-5.5	FFSGC-C 5.0-5.5	FFSGC-D 5.0-5.5	FFSGC-E 5.0-5.5	SUST-A 5.0-5.5	SUST-B 5.0-5.5	SUST-C 5.0-5.5	SUST-D 5.0-5.5
Sample Date					7/9/2013	7/9/2013	7/9/2013	7/9/2013	7/9/2013	7/9/2013	7/9/2013	7/12/2013	7/12/2013
Volatile Organic Compounds (mg/kg)													
Acetone	70,000	NLE	19	-	**0.0175**	< 0.0018	**0.0254**	< 0.0019	< 0.0018	< 0.0018	< 0.0023	< 0.1	**0.0813**
Carbon disulfide	7,800	110,000	6	-	< 0.00014	**0.0009 J**	< 0.00012	< 0.00013	< 0.00012	< 0.00013	< 0.00016	< 0.0072	**0.00053 J**
Chlorobenzene	510	7,400	0.6	-	< 0.00012	< 0.00012	**0.00083 J**	< 0.00012	< 0.00011	< 0.00012	< 0.00015	< 0.0066	< 0.0001
Isopropylbenzene	NLE	NLE	NLE	-	< 0.000086	< 0.000081	< 0.000074	< 0.000084	< 0.000078	< 0.00008	< 0.0001	**0.0287 J**	< 0.000072
Methyl ethyl ketone	3,100	44,000	0.9	-	< 0.0028	< 0.0026	< 0.0024	< 0.0027	< 0.0025	< 0.0026	< 0.0032	< 0.15	**0.0103**
Methylene chloride	34	97	0.01	-	**0.0018 JB**	**0.0024 JB**	**0.0022 JB**	**0.0023 JB**	**0.004 JB**	**0.0033 JB**	**0.0048 JB**	< 0.078	**0.0029 J**
Toluene	6,300	91,000	7	-	< 0.00012	< 0.00011	< 0.00011	< 0.00012	**0.0003 J**	**0.00027 J**	**0.00036 J**	**0.136**	**0.00026 J**
Semivolatile Organic Compounds (mg/kg)													
Acenaphthene	3,400	37,000	110	-	< 0.011	< 0.01	< 0.011	< 0.012	< 0.01	< 0.011	< 0.0096	**3.21**	< 0.01
Benzo(a)anthracene	0.6	2	0.8	-	< 0.013	< 0.012	**0.0246 J**	< 0.014	< 0.012	< 0.012	< 0.011	< 0.012	**0.0255 J**
Benzo(a)pyrene	0.2	0.2	0.2	-	< 0.012	< 0.011	< 0.012	< 0.013	< 0.011	< 0.011	< 0.01	**0.0412**	**0.023 J**
Benzo(b)fluoranthene	0.6	2	2	-	< 0.013	< 0.012	< 0.013	< 0.014	< 0.012	< 0.012	< 0.011	**0.0514**	**0.028 J**
Benzo(ghi)perylene	380,000	30,000	NLE	-	< 0.014	< 0.013	< 0.015	< 0.016	< 0.013	< 0.014	< 0.012	**0.0316 J**	**0.0244 J**
Benzo(k)fluoranthene	6	23	25	-	< 0.014	< 0.013	< 0.015	< 0.016	< 0.013	< 0.014	< 0.012	**0.0157 J**	< 0.013
Chrysene	62	230	80	-	< 0.013	< 0.012	**0.0292 J**	< 0.014	< 0.012	< 0.012	< 0.011	< 0.012	**0.0321 J**
Dimethyl phthalate	NLE	NLE	NLE	-	**0.177**	< 0.013	< 0.014	< 0.015	**0.168**	< 0.013	< 0.012	< 0.013	< 0.012
Fluoranthene	2,300	24,000	1,300	-	< 0.017	< 0.016	**0.069**	< 0.019	< 0.016	< 0.016	< 0.015	**0.419**	**0.0564**
Fluorene	2,300	24,000	170	-	< 0.013	< 0.012	< 0.013	< 0.014	< 0.012	< 0.012	< 0.011	**4.94**	< 0.012
Indeno(1,2,3-cd)pyrene	0.6	2	7	-	< 0.013	< 0.012	< 0.014	< 0.015	< 0.012	< 0.013	< 0.012	**0.0254 J**	**0.017 J**
Phenanthrene	NLE	300,000	NLE	-	< 0.018	< 0.016	**0.0329 J**	< 0.019	< 0.016	< 0.017	< 0.015	**11.3**	**0.0442**
Pyrene	1,700	18,000	840	-	< 0.015	< 0.014	**0.0426**	< 0.016	< 0.014	< 0.014	< 0.013	**1.02**	**0.0521**
Extractable/Volatile Petroleum Hydrocarbons (mg/kg)													
C10-C12 Aromatics	NLE	NLE	NLE	-	< 0.19	< 0.18	< 0.19	< 0.22	< 0.18	< 0.16	< 0.17	**45.6**	< 0.18
C12-C16 Aliphatics	NLE	NLE	NLE	-	< 0.27	< 0.25	< 0.27	< 0.31	< 0.26	< 0.23	< 0.25	**1,700**	< 0.26
C12-C16 Aromatics	NLE	NLE	NLE	-	< 0.27	< 0.25	< 0.27	< 0.31	< 0.26	< 0.23	< 0.25	**273**	< 0.26
C16-C21 Aliphatics	NLE	NLE	NLE	-	< 0.24	< 0.22	< 0.24	< 0.27	< 0.23	< 0.21	< 0.22	**1,120**	< 0.23
C16-C21 Aromatics	NLE	NLE	NLE	-	< 0.4	< 0.37	< 0.39	< 0.45	< 0.38	< 0.34	< 0.36	**862**	< 0.38
C21-C36 Aromatics	NLE	NLE	NLE	-	< 0.64	< 0.59	< 0.63	< 0.72	< 0.61	< 0.55	< 0.58	**131**	< 0.61
C21-C40 Aliphatics	NLE	NLE	NLE	-	< 0.7	< 0.65	< 0.69	< 0.79	< 0.67	< 0.6	< 0.64	**260**	< 0.67
C9-C12 Aliphatics	NLE	NLE	NLE	-	< 0.17	< 0.16	< 0.17	< 0.2	< 0.17	< 0.15	< 0.16	**445**	< 0.17
Total Aliphatics	NLE	NLE	NLE	-	< 0.17	< 0.16	< 0.17	< 0.2	< 0.17	< 0.15	< 0.16	**3,520**	< 0.17
Total Aromatics	NLE	NLE	NLE	-	< 0.19	< 0.18	< 0.19	< 0.22	< 0.18	< 0.16	< 0.17	**1,310**	< 0.18
Total EPH	SS	SS	SS	-	< 0.17	< 0.16	< 0.17	< 0.2	< 0.17	< 0.15	< 0.16	**4,830**	< 0.17
Pesticides (mg/kg)													
4,4'-DDD	3	13	4	-	< 0.00042	< 0.00043	< 0.00043	< 0.00049	< 0.00042	< 0.00038	< 0.00039	**0.0105**	**0.196**
4,4'-DDE	2	9	18	-	< 0.00031	< 0.00032	< 0.00032	< 0.00036	**0.0037**	**0.00099**	< 0.00029	**0.0177**	**0.138**
4,4'-DDT	2	8	11	-	< 0.00038	< 0.00039	< 0.00039	< 0.00044	**0.0032**	**0.00083**	< 0.00035	**0.0047**	**0.158**
Alpha-Chlordane	NLE	1	NLE	-	< 0.00028	< 0.00029	< 0.00029	< 0.00033	< 0.00028	< 0.00026	< 0.00026	< 0.00027	**0.0022**
Gamma-Chlordane	0.2	1	NLE	-	< 0.00053	< 0.00054	< 0.00054	< 0.00062	< 0.00053	< 0.00048	< 0.00049	< 0.00051	**0.0025**
Heptachlor epoxide	0.07	0.3	0.01	-	< 0.00029	< 0.00029	< 0.00029	< 0.00034	< 0.00029	< 0.00026	< 0.00027	< 0.00028	**0.0039**
PCBs (mg/kg)													
Aroclor-1260	0.2	1	NLE	-	< 0.013	< 0.013	< 0.013	< 0.015	< 0.013	< 0.011	< 0.012	**0.0613**	**0.241**
Inorganics (mg/kg)													
Aluminum	78,000	NLE	6,000	15,700	**2,690**	**5,190**	**10,400**	**6,440**	**6,040**	**3,580**	**6,870**	**4,820**	**6,290**
Arsenic	19	19	19	31.6	< 2.4	**40.5**	**11.1**	**30.5**	**9.6**	< 2.3	< 2.4	**4.4**	**39**
Barium	16,000	59,000	2,100	26	< 24	**98.8**	**32.4**	**135**	**38.8**	**46.3**	**58.5**	**73.9**	**66.7**
Beryllium	16	140	0.7	1.7	< 0.24	**1.6**	**1.2**	**1.2**	**1.1**	**0.42**	**0.71**	**0.5**	**0.91**
Calcium	NLE	NLE	NLE	653	< 600	**2,480**	**1,570**	**3,130**	**1,540**	< 570	< 590	< 580	**2,130**
Chromium	NLE	NLE	NLE	128	**6.2**	**80**	**95.5**	**57.7**	**80.5**	**28.1**	**84.4**	**43.2**	**78.9**
Chromium, Hexavalent	240	NLE	NLE	ND	NA	NA	NA	NA	NA	NA	NA	< 1.23	**3.3**
Copper	3,100	45,000	11,000	6.6	< 3	**3.2**	**3.6**	**6.7**	**3**	**3**	**4**	< 2.9	**15.7**
Iron	NLE	NLE	NLE	45,500	**2,020**	**23,000**	**30,100**	**19,400**	**19,700**	**5,750**	**12,500**	**14,400**	**24,200**
Lead	400	800	90	11.1	**3.1**	**3.4**	**5.7**	**4.1**	**3.2**	**2.9**	**4.4**	**8.1**	**33.6**
Magnesium	NLE	NLE	NLE	3,960	< 600	**2,900**	**3,090**	**2,880**	**2,820**	**604**	**1,420**	**978**	**2,280**
Manganese	11,000	5,900	65	48.7	**11.8**	**18.9**	**57.3**	**41.7**	**17.2**	**4.8**	**17.9**	**35.2**	**23**
Mercury	23	65	0.1	ND	< 0.038	< 0.04	< 0.037	**0.045**	< 0.038	< 0.035	< 0.033	**0.04**	**0.096**
Nickel	1,600	23,000	48	8.3	< 4.8	**20.6**	**7**	**31.8**	**15.5**	< 4.6	< 4.7	< 4.6	< 4.8
Potassium	NLE	NLE	NLE	10,600	< 1200	**7,370**	**7,060**	**4,720**	**7,010**	**1,520**	**3,330**	**2,150**	**6,130**
Selenium	390	5,700	11	0.85	< 2.4	**2.5**	< 2.4	**4.2**	< 2.4	< 2.3	< 2.4	< 2.3	< 2.4
Silver	390	5,700	1	ND	< 0.6	< 0.6	< 0.6	< 0.71	< 0.59	< 0.57	< 0.59	**1**	**1.4**
Vanadium	78	1,100	NLE	59.6	< 6	**28.7**	**46.3**	**25.8**	**36.8**	**12.9**	**48.2**	**28.7**	**28.8**
Zinc	23,000	110,000	930	55.6	**3.4**	**33.1**	**36.8**	**74.2**	**63.2**	**10.5**	**17.5**	**23.9**	**48.9**
Wet Chemistry													
Redox Potential Vs H2 (mv)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	**389**	**379**
Wet Chemistry - pH													
pH (su)	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	**5.51**	**6.84**

Footnote:

1) NLE = no limit established.

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

3) **Bold** = chemical detection

4) SS = Site Specific action level, see "Specific Chemical Class (or Parameter)" footnote for details.

5) Chemical result qualifiers are assigned by the laboratory.

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

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

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.

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 at 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) Specific Chemical Classes (or Parameters) comments or notes regarding how data is displayed, compared to Action Levels, or represented in this table.

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. ####

  There are no NJDEP soil standards for individual PCB Aroclors, therefore the total PCB NJDEP standards were used for individual Aroclors.

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

  There are no NJDEP soil standards for individual PCB Aroclors, therefore the total PCB NJDEP standards were used for individual Aroclors.

- 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 Contact Soil Remediation Standard. ###

- 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 revised

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

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

Attachment F

Groundwater Sampling Results (Table 2)

TABLE 2
DETECTED GROUND WATER SAMPLING RESULTS
PARCEL 35
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Criteria	Weston 1995 Background (Charles Wood)	FFSGC-A	FFSGC-B	FFSGC-C	FFSGC-D	FFSGC-E	SUST-A	SUST-B
Sample ID			FFSGC-A-GW	FFSGC-B-GW	FFSGC-C-GW	FFSGC-D-GW	FFSGC-E-GW	SUST-A-GW	SUST-B-GW
Sample Date			7/17/2013	7/26/2013	7/26/2013	7/26/2013	7/26/2013	7/31/2013	7/31/2013
Sample Round									
Filtered			Total	Total	Total	Total	Total	Total	Total
Volatile Organic Compounds (µg/l)									
Chlorobenzene	50	-	**2.9**	**2.8**	**3.5**	**3**	**3.3**	< 0.23	< 0.23
Semivolatile Organic Compounds (µg/l)									
Bis(2-Ethylhexyl)phthalate	3	-	< 0.59	< 5.9	< 0.6	**6.8**	< 0.59	**1.6 J**	< 0.62
Diethyl phthalate	6,000	-	< 0.33	**20.6**	< 0.33	< 0.33	< 0.33	< 0.36	< 0.35
Extractable/Volatile Petroleum Hydrocarbons (mg/l)									
EPH (C9-C28)	NLE	-	**0.202**	< 0.032	< 0.032	< 0.032	< 0.032	< 0.034	< 0.036
EPH (C9-C40)	NLE	-	**0.202**	< 0.015	< 0.015	< 0.015	< 0.015	< 0.016	< 0.017
Pesticides (µg/l) (No Detects)									
PCBs (µg/l) (No Detects)									
Inorganics (µg/l)									
Aluminum	200	8,210	**6,560**	**7,650**	< 200	**649**	**306**	**6,130**	**1,500**
Arsenic	3	25.1	**10.8**	**11.1**	**8.3**	**7.3**	**10.2**	**12.5**	< 3
Beryllium	1	2.8	< 1	< 1	< 1	< 1	< 1	**1**	< 1
Calcium	NLE	8,700	**20,300**	**15,200**	**20,100**	**18,800**	**20,200**	**15,600**	**14,100**
Chromium	70	49.6	**16.7**	**22.6**	< 10	< 10	< 10	**82.5**	**20.6**
Iron	300	19,600	**71,600**	**52,200**	**61,600**	**63,600**	**61,100**	**25,900**	**8,010**
Lead	5	7.3	**6.5**	**13.6**	**3.5**	< 3	**4.4**	**7.6**	< 3
Magnesium	NLE	7,160	**6,240**	< 5000	**5,820**	**5,760**	**5,710**	< 5000	< 5000
Manganese	50	232	**399**	**285**	**375**	**344**	**369**	**99.3**	**78.7**
Sodium	50,000	36,400	**35,900**	**27,900**	**38,000**	**34,300**	**37,500**	< 10000	< 10000
Zinc	2,000	133	< 20	< 20	< 20	< 20	< 20	**63.3**	**22.5**
Wet Chemistry - pH									
pH (su)	NLE	-	**6.07**	**6.15**	**6.05**	**6.08**	**6.04**	**6.89**	**6.71**

Footnote:

1) NLE = no limit established.

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

3) Bold chemical detection

4) Chemical result qualifiers are assigned by the laboratory.

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

J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.

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.

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 at 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.

5) 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 XXXXX or a NJDEP Interim Specific GWQC. Available at (http://www.nj.gov/dep/wms/bwqsa/gwqs_interim_criteria_table.htm).

- 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.

6) Criteria action level source document and web address.

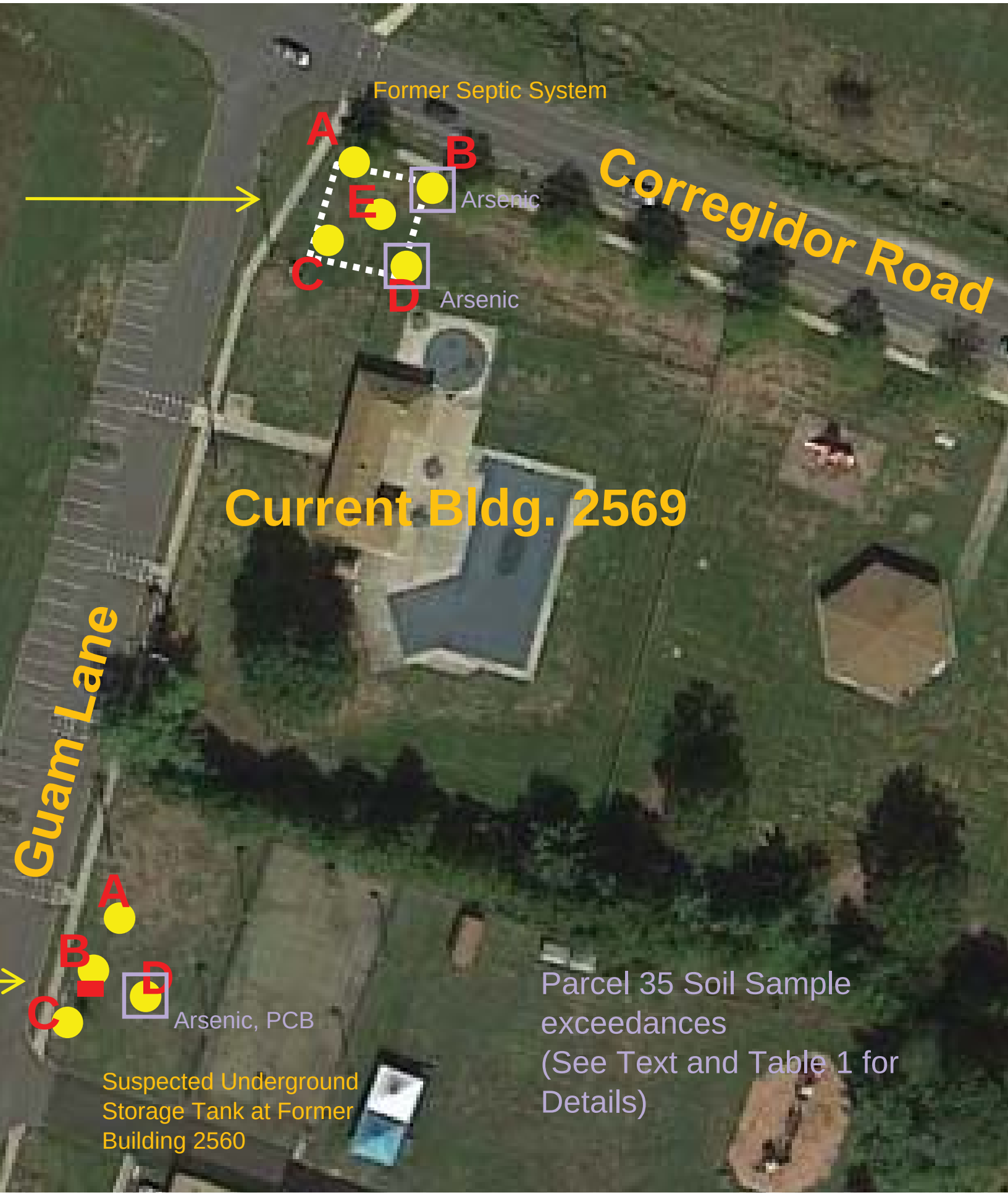
- The NJ Ground Water Quality Criteria refers to the NJDEP Groundwater Quality Standards - Adopted July 22, 2010

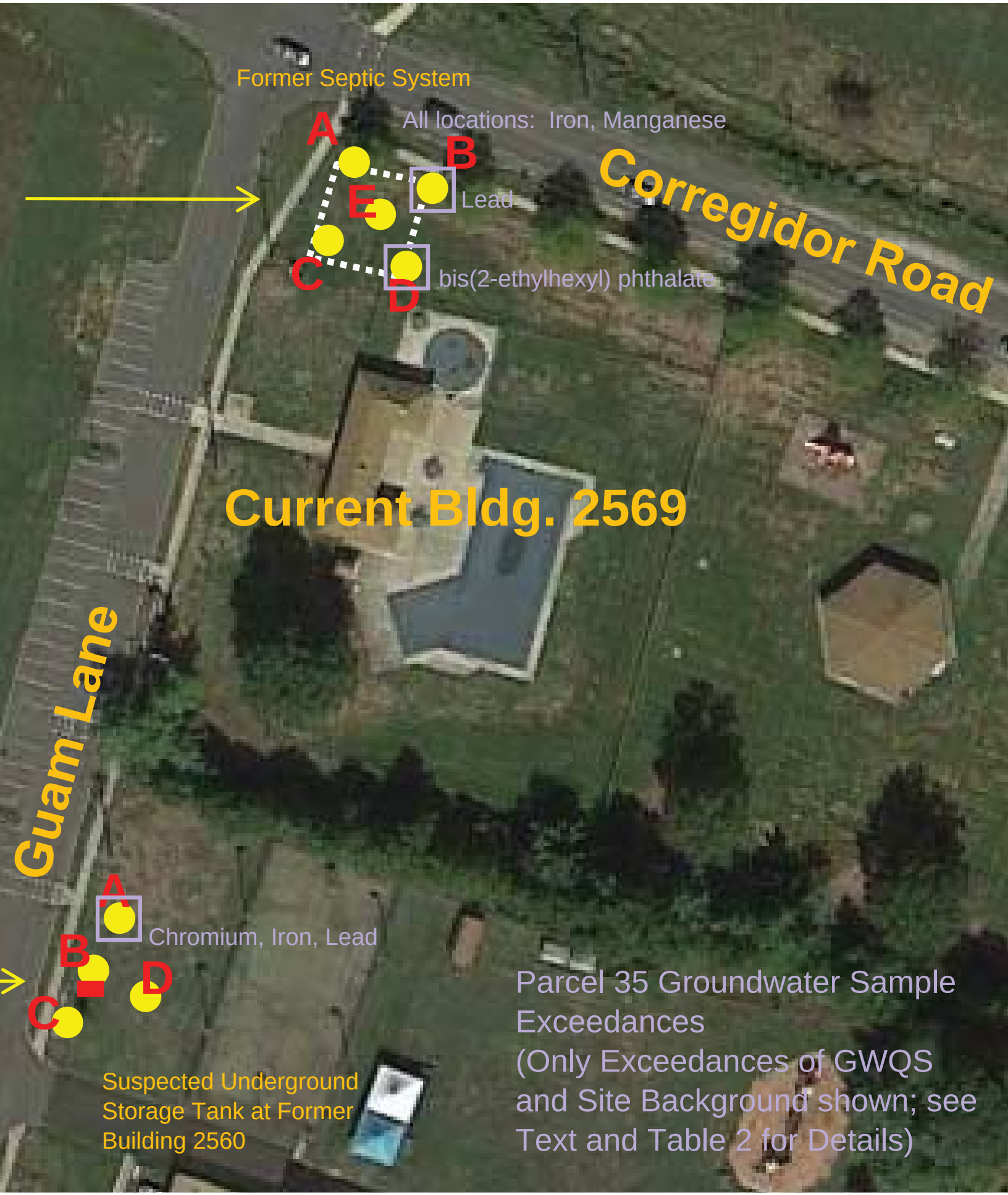
http://www.state.nj.us/dep/wms/bwqsa/docs/njac79C.pdf

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

Attachment G

Locations of Exceedances of RDCSRS and GWQS


Former Septic System
A
B
E
C
D
Arsenic
Arsenic
Corregidor Road
Current Bldg. 2569
Guam Lane
A
B
C
D
Arsenic, PCB
Suspected Underground Storage Tank at Former Building 2560
Parcel 35 Soil Sample exceedances
(See Text and Table 1 for Details)


Former Septic System
All locations: Iron, Manganese
A
B
E
C
D
Lead
bis(2-ethylhexyl) phthalate
Corregidor Road
Current Bldg. 2569
Guam Lane
A
B
C
D
Chromium, Iron, Lead
Suspected Underground Storage Tank at Former Building 2560
Parcel 35 Groundwater Sample Exceedances
(Only Exceedances of GWQS and Site Background shown; see Text and Table 2 for Details)

Attachment H

Laboratory Data Reports

New Jersey ACCUTEST LABORATORIES

08/06/13

Technical Report for

Fort Monmouth Environmental Testing Lab.

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

Accutest Job Number: JB41556A

Sampling Date: 07/09/13

Report to:

COS, LLC
P.O. BOX 148
Ocean Port, NJ 07757

ATTN: Wanda Green

Total number of pages in report: **2317**

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.

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

Sections:

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Sample Summary

Fort Monmouth Environmental Testing Lab.

Job No: JB41556A

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JB41556-1A	07/09/13	09:00	RY	07/09/13	SO	Soil	FFSGC-C (5.0-5.5)
JB41556-2A	07/09/13	09:30	RY	07/09/13	SO	Soil	FFSGC-A (5.0-5.5)
JB41556-3A	07/09/13	10:00	RY	07/09/13	SO	Soil	FFSGC-E (5.0-5.5)
JB41556-4A	07/09/13	10:30	RY	07/09/13	SO	Soil	FFSGC-D (5.0-5.5)
JB41556-5A	07/09/13	11:00	RY	07/09/13	SO	Soil	FFSGC-B (5.0-5.5)
JB41556-6A	07/09/13	11:15	RY	07/09/13	SO	Soil	SUST-A (5.0-5.5)
JB41556-7A	07/09/13	11:20	RY	07/09/13	SO	Soil	SUST-B (5.0-5.5)

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**	JB41556A
Site:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, F	**Report Date**	8/6/2013 3:43:44 PM

On 07/09/2013, 7 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 5.8 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB41556A 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:** VY5868

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB41704-11DUP, JB41704-10MS were used as the QC samples indicated.
- Sample(s) JB41556-1A, JB41556-2A, JB41556-3A, JB41556-4A, JB41556-5A, JB41556-6A, JB41556-7A have compound(s) reported with a "B" qualifier, indicating analyte is found in the associated method blank.
- Matrix Spike Recovery(s) for Trichlorofluoromethane are outside control limits. Outside control limits due to matrix interference.

Extractables by GCMS By Method SW846 8270D

Matrix: SO **Batch ID:** OP67384

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB41514-4MS, JB41514-4MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** OP67385

- All samples were extracted within the recommended method holding time.
- Sample(s) JB41556-4AMS, JB41556-4AMSD 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:** OP67379

- All samples were extracted within the recommended method holding time.
- Sample(s) JB41556-1AMS, JB41556-1AMSD, JB41556-3ADUP 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: SO **Batch ID:** OP67377

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB41576-2MS, JB41576-2MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8082A

Matrix: SO **Batch ID:** OP67376

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB41576-1MS, JB41576-1MSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP73120

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB41576-7MS, JB41576-7MSD, JB41576-7SDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Aluminum, Iron, Antimony, Calcium, Potassium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- Matrix Spike Duplicate Recovery(s) for Iron, Antimony, Magnesium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- RPD(s) for MSD for Aluminum, Magnesium are outside control limits for sample MP73120-S2. High rpd due to possible sample nonhomogeneity.
- RPD(s) for Serial Dilution for Antimony, Cadmium, Silver are outside control limits for sample MP73120-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

Matrix: SO **Batch ID:** MP73122

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB41607-2MS, JB41607-2MSD, JB41607-2SDL were used as the QC samples for metals.
- Matrix Spike / Matrix Spike Duplicate Recovery(s) for Aluminum, Antimony, Manganese, Iron, Potassium are outside control limits. Spike recovery indicates possible matrix interference and/or sample nonhomogeneity.
- RPD(s) for Serial Dilution for Antimony, Silver, Thallium are outside control limits for sample MP73122-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP73122-SD1 for Zinc: Serial dilution indicates possible matrix interference.
- MP73122-SD1 for Iron: Serial dilution indicates possible matrix interference.
- MP73122-SD1 for Cobalt: Serial dilution indicates possible matrix interference.
- MP73122-SD1 for Calcium: Serial dilution indicates possible matrix interference.
- MP73122-SD1 for Nickel: Serial dilution indicates possible matrix interference.
- MP73122-SD1 for Sodium: 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:** GP73260

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB41556-6ADUP, JB41556-6AMS 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: JB41556A
Account: Fort Monmouth Environmental Testing Lab.
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
Collected: 07/09/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB41556-1A	**FFSGC-C (5.0-5.5)**					
Acetone		25.4	10	1.7	ug/kg	SW846 8260B
Chlorobenzene		0.83 J	5.0	0.11	ug/kg	SW846 8260B
Methylene chloride		2.2 JB	5.0	1.3	ug/kg	SW846 8260B
Total TIC, Volatile		27 J			ug/kg	
Benzo(a)anthracene		24.6 J	39	13	ug/kg	SW846 8270D
Chrysene		29.2 J	39	13	ug/kg	SW846 8270D
Fluoranthene		69.0	39	17	ug/kg	SW846 8270D
Phenanthrene		32.9 J	39	18	ug/kg	SW846 8270D
Pyrene		42.6	39	15	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		1900 J			ug/kg	
Total Alkanes		170 J			ug/kg	
Aluminum		10400	60		mg/kg	SW846 6010C
Arsenic		11.1	2.4		mg/kg	SW846 6010C
Barium		32.4	24		mg/kg	SW846 6010C
Beryllium		1.2	0.24		mg/kg	SW846 6010C
Calcium		1570	600		mg/kg	SW846 6010C
Chromium		95.5	1.2		mg/kg	SW846 6010C
Copper		3.6	3.0		mg/kg	SW846 6010C
Iron		30100	60		mg/kg	SW846 6010C
Lead		5.7	2.4		mg/kg	SW846 6010C
Magnesium		3090	600		mg/kg	SW846 6010C
Manganese		57.3	1.8		mg/kg	SW846 6010C
Nickel		7.0	4.8		mg/kg	SW846 6010C
Potassium		7060	1200		mg/kg	SW846 6010C
Vanadium		46.3	6.0		mg/kg	SW846 6010C
Zinc		36.8	2.4		mg/kg	SW846 6010C
JB41556-2A	**FFSGC-A (5.0-5.5)**					
Acetone		17.5	12	2.0	ug/kg	SW846 8260B
Methylene chloride		1.8 JB	5.8	1.5	ug/kg	SW846 8260B
Total TIC, Volatile		11 J			ug/kg	
Dimethyl phthalate		177	77	14	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		1060 J			ug/kg	
Aluminum		2690	60		mg/kg	SW846 6010C
Chromium		6.2	1.2		mg/kg	SW846 6010C
Iron		2020	60		mg/kg	SW846 6010C
Lead		3.1	2.4		mg/kg	SW846 6010C
Manganese		11.8	1.8		mg/kg	SW846 6010C
Zinc		3.4	2.4		mg/kg	SW846 6010C

Summary of Hits

Job Number: JB41556A
Account: Fort Monmouth Environmental Testing Lab.
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
Collected: 07/09/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB41556-3A	**FFSGC-E (5.0-5.5)**					
Methylene chloride		4.0 JB	5.3	1.3	ug/kg	SW846 8260B
Toluene		0.30 J	1.1	0.11	ug/kg	SW846 8260B
Total TIC, Volatile		32 J			ug/kg	
Dimethyl phthalate		168	71	12	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		630 J			ug/kg	
4,4'-DDE		3.7	0.77	0.31	ug/kg	SW846 8081B
4,4'-DDT		3.2	0.77	0.38	ug/kg	SW846 8081B
Aluminum		6040	59		mg/kg	SW846 6010C
Arsenic		9.6	2.4		mg/kg	SW846 6010C
Barium		38.8	24		mg/kg	SW846 6010C
Beryllium		1.1	0.24		mg/kg	SW846 6010C
Calcium		1540	590		mg/kg	SW846 6010C
Chromium		80.5	1.2		mg/kg	SW846 6010C
Copper		3.0	3.0		mg/kg	SW846 6010C
Iron		19700	59		mg/kg	SW846 6010C
Lead		3.2	2.4		mg/kg	SW846 6010C
Magnesium		2820	590		mg/kg	SW846 6010C
Manganese		17.2	1.8		mg/kg	SW846 6010C
Nickel		15.5	4.7		mg/kg	SW846 6010C
Potassium		7010	1200		mg/kg	SW846 6010C
Vanadium		36.8	5.9		mg/kg	SW846 6010C
Zinc		63.2	2.4		mg/kg	SW846 6010C
JB41556-4A	**FFSGC-D (5.0-5.5)**					
Methylene chloride		2.3 JB	5.6	1.4	ug/kg	SW846 8260B
Total TIC, Volatile		28 J			ug/kg	
Total TIC, Semi-Volatile		940 J			ug/kg	
Aluminum		6440	71		mg/kg	SW846 6010C
Arsenic		30.5	2.9		mg/kg	SW846 6010C
Barium		135	29		mg/kg	SW846 6010C
Beryllium		1.2	0.29		mg/kg	SW846 6010C
Calcium		3130	710		mg/kg	SW846 6010C
Chromium		57.7	1.4		mg/kg	SW846 6010C
Copper		6.7	3.6		mg/kg	SW846 6010C
Iron		19400	71		mg/kg	SW846 6010C
Lead		4.1	2.9		mg/kg	SW846 6010C
Magnesium		2880	710		mg/kg	SW846 6010C
Manganese		41.7	2.1		mg/kg	SW846 6010C
Mercury		0.045	0.043		mg/kg	SW846 7471B
Nickel		31.8	5.7		mg/kg	SW846 6010C
Potassium		4720	1400		mg/kg	SW846 6010C
Selenium		4.2	2.9		mg/kg	SW846 6010C

Summary of Hits

Job Number: JB41556A
Account: Fort Monmouth Environmental Testing Lab.
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
Collected: 07/09/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Vanadium		25.8	7.1		mg/kg	SW846 6010C
Zinc		74.2	2.9		mg/kg	SW846 6010C
JB41556-5A	**FFSGC-B (5.0-5.5)**					
Carbon disulfide		0.90 J	5.5	0.13	ug/kg	SW846 8260B
Methylene chloride		2.4 JB	5.5	1.4	ug/kg	SW846 8260B
Total TIC, Volatile		31.6 J			ug/kg	
Total TIC, Semi-Volatile		390 J			ug/kg	
Aluminum		5190	60		mg/kg	SW846 6010C
Arsenic		40.5	2.4		mg/kg	SW846 6010C
Barium		98.8	24		mg/kg	SW846 6010C
Beryllium		1.6	0.24		mg/kg	SW846 6010C
Calcium		2480	600		mg/kg	SW846 6010C
Chromium		80.0	1.2		mg/kg	SW846 6010C
Copper		3.2	3.0		mg/kg	SW846 6010C
Iron		23000	60		mg/kg	SW846 6010C
Lead		3.4	2.4		mg/kg	SW846 6010C
Magnesium		2900	600		mg/kg	SW846 6010C
Manganese		18.9	1.8		mg/kg	SW846 6010C
Nickel		20.6	4.8		mg/kg	SW846 6010C
Potassium		7370	1200		mg/kg	SW846 6010C
Selenium		2.5	2.4		mg/kg	SW846 6010C
Vanadium		28.7	6.0		mg/kg	SW846 6010C
Zinc		33.1	2.4		mg/kg	SW846 6010C
JB41556-6A	**SUST-A (5.0-5.5)**					
Methylene chloride		3.3 JB	5.4	1.4	ug/kg	SW846 8260B
Toluene		0.27 J	1.1	0.11	ug/kg	SW846 8260B
Total TIC, Volatile		29.8 J			ug/kg	
Total TIC, Semi-Volatile		310 J			ug/kg	
4,4'-DDE		0.99	0.70	0.28	ug/kg	SW846 8081B
4,4'-DDT		0.83	0.70	0.35	ug/kg	SW846 8081B
Aluminum		3580	57		mg/kg	SW846 6010C
Barium		46.3	23		mg/kg	SW846 6010C
Beryllium		0.42	0.23		mg/kg	SW846 6010C
Chromium		28.1	1.1		mg/kg	SW846 6010C
Copper		3.0	2.9		mg/kg	SW846 6010C
Iron		5750	57		mg/kg	SW846 6010C
Lead		2.9	2.3		mg/kg	SW846 6010C
Magnesium		604	570		mg/kg	SW846 6010C
Manganese		4.8	1.7		mg/kg	SW846 6010C
Potassium		1520	1100		mg/kg	SW846 6010C
Vanadium		12.9	5.7		mg/kg	SW846 6010C

Summary of Hits

Job Number: JB41556A
Account: Fort Monmouth Environmental Testing Lab.
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
Collected: 07/09/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Zinc		10.5	2.3		mg/kg	SW846 6010C
JB41556-7A	**SUST-B (5.0-5.5)**					
Methylene chloride		4.8 JB	6.7	1.7	ug/kg	SW846 8260B
Toluene		0.36 J	1.3	0.14	ug/kg	SW846 8260B
Total TIC, Volatile		9.6 J			ug/kg	
Total TIC, Semi-Volatile		450 J			ug/kg	
Aluminum		6870	59		mg/kg	SW846 6010C
Barium		58.5	24		mg/kg	SW846 6010C
Beryllium		0.71	0.24		mg/kg	SW846 6010C
Chromium		84.4	1.2		mg/kg	SW846 6010C
Copper		4.0	3.0		mg/kg	SW846 6010C
Iron		12500	59		mg/kg	SW846 6010C
Lead		4.4	2.4		mg/kg	SW846 6010C
Magnesium		1420	590		mg/kg	SW846 6010C
Manganese		17.9	1.8		mg/kg	SW846 6010C
Potassium		3330	1200		mg/kg	SW846 6010C
Vanadium		48.2	5.9		mg/kg	SW846 6010C
Zinc		17.5	2.4		mg/kg	SW846 6010C

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-C (5.0-5.5)
Lab Sample ID: JB41556-1A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8260B SW846 5035 **Percent Solids:** 83.3
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	Y136172.D	1	07/12/13	RS	07/10/13 10:00	n/a	VY5868
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	25.4	10	1.7	ug/kg	
71-43-2	Benzene	ND	1.0	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	5.0	0.27	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.11	ug/kg	
75-25-2	Bromoform	ND	5.0	0.15	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.27	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.12	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.13	ug/kg	
108-90-7	Chlorobenzene	0.83	5.0	0.11	ug/kg	J
75-00-3	Chloroethane	ND	5.0	0.23	ug/kg	
67-66-3	Chloroform	ND	5.0	0.083	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.19	ug/kg	
110-82-7	Cyclohexane	ND	5.0	0.12	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.89	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.16	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.18	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.23	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.14	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.0	0.26	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	0.18	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	0.24	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.15	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.14	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.16	ug/kg	
123-91-1	1,4-Dioxane	ND	130	60	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.26	ug/kg	
76-13-1	Freon 113	ND	5.0	0.43	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: FFSGC-C (5.0-5.5)
Lab Sample ID: JB41556-1A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8260B SW846 5035 **Percent Solids:** 83.3
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	0.62	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.074	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	2.6	ug/kg	
108-87-2	Methylcyclohexane	ND	5.0	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	5.0	0.75	ug/kg	
75-09-2	Methylene chloride	2.2	5.0	1.3	ug/kg	JB
100-42-5	Styrene	ND	5.0	0.092	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.13	ug/kg	
127-18-4	Tetrachloroethene	ND	5.0	0.17	ug/kg	
108-88-3	Toluene	ND	1.0	0.11	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.16	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.14	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.11	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.17	ug/kg	
79-01-6	Trichloroethene	ND	5.0	0.17	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.30	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	0.14	ug/kg	
	m,p-Xylene	ND	1.0	0.17	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	97%		65-131%
17060-07-0	1,2-Dichloroethane-D4	90%		70-121%
2037-26-5	Toluene-D8	97%		80-128%
460-00-4	4-Bromofluorobenzene	93%		67-131%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	9.26	12	ug/kg	J
	unknown	9.63	15	ug/kg	J
	Total TIC, Volatile		27	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

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-C (5.0-5.5)
Lab Sample ID: JB41556-1A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8270D SW846 3550C **Percent Solids:** 83.3
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	R100758.D	1	07/12/13	ALS	07/11/13	OP67384	ER4013
Run #2							

	Initial Weight	Final Volume
Run #1	30.4 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	200	40	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	200	39	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	200	64	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	200	66	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	790	48	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	790	48	ug/kg	
95-48-7	2-Methylphenol	ND	79	45	ug/kg	
	3&4-Methylphenol	ND	79	50	ug/kg	
88-75-5	2-Nitrophenol	ND	200	42	ug/kg	
100-02-7	4-Nitrophenol	ND	390	67	ug/kg	
87-86-5	Pentachlorophenol	ND	390	68	ug/kg	
108-95-2	Phenol	ND	79	41	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	200	41	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	200	46	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	200	37	ug/kg	
83-32-9	Acenaphthene	ND	39	11	ug/kg	
208-96-8	Acenaphthylene	ND	39	13	ug/kg	
98-86-2	Acetophenone	ND	200	7.0	ug/kg	
120-12-7	Anthracene	ND	39	14	ug/kg	
1912-24-9	Atrazine	ND	200	7.8	ug/kg	
56-55-3	Benzo(a)anthracene	24.6	39	13	ug/kg	J
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	15	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	39	15	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	79	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	79	23	ug/kg	
92-52-4	1,1'-Biphenyl	ND	79	4.6	ug/kg	
100-52-7	Benzaldehyde	ND	200	9.1	ug/kg	
91-58-7	2-Chloronaphthalene	ND	79	12	ug/kg	
106-47-8	4-Chloroaniline	ND	200	13	ug/kg	
86-74-8	Carbazole	ND	79	18	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: FFSGC-C (5.0-5.5)
Lab Sample ID: JB41556-1A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8270D SW846 3550C **Percent Solids:** 83.3
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	79	12	ug/kg	
218-01-9	Chrysene	29.2	39	13	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	79	16	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	79	12	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	79	12	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	79	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	79	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	79	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	200	10	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	39	13	ug/kg	
132-64-9	Dibenzofuran	ND	79	12	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	79	8.8	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	79	19	ug/kg	
84-66-2	Diethyl phthalate	ND	79	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	79	14	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	79	35	ug/kg	
206-44-0	Fluoranthene	69.0	39	17	ug/kg	
86-73-7	Fluorene	ND	39	13	ug/kg	
118-74-1	Hexachlorobenzene	ND	79	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	200	11	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	39	14	ug/kg	
78-59-1	Isophorone	ND	79	11	ug/kg	
91-57-6	2-Methylnaphthalene	ND	79	22	ug/kg	
88-74-4	2-Nitroaniline	ND	200	17	ug/kg	
99-09-2	3-Nitroaniline	ND	200	16	ug/kg	
100-01-6	4-Nitroaniline	ND	200	15	ug/kg	
91-20-3	Naphthalene	ND	39	11	ug/kg	
98-95-3	Nitrobenzene	ND	79	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	79	9.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	200	24	ug/kg	
85-01-8	Phenanthrene	32.9	39	18	ug/kg	J
129-00-0	Pyrene	42.6	39	15	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	200	12	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	87%		13-110%
4165-62-2	Phenol-d5	86%		15-110%

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: FFSGC-C (5.0-5.5)
Lab Sample ID: JB41556-1A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8270D SW846 3550C **Percent Solids:** 83.3
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	101%		20-123%
4165-60-0	Nitrobenzene-d5	82%		10-110%
321-60-8	2-Fluorobiphenyl	89%		17-110%
1718-51-0	Terphenyl-d14	93%		30-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.33	580	ug/kg	J
	system artifact	3.33	230	ug/kg	J
	system artifact	3.48	200	ug/kg	J
	system artifact/aldol-condensation	3.54	9100	ug/kg	J
	system artifact	3.65	210	ug/kg	J
	C3 alkyl benzene	4.18	290	ug/kg	J
	unknown	4.29	250	ug/kg	J
	unknown	8.76	180	ug/kg	J
	unknown	17.48	290	ug/kg	J
	unknown	18.69	290	ug/kg	J
	unknown	19.83	180	ug/kg	J
	unknown	21.41	220	ug/kg	J
	unknown	21.52	200	ug/kg	J
	Total TIC, Semi-Volatile		1900	ug/kg	J
	Total Alkanes		170	ug/kg	J

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

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-C (5.0-5.5)
Lab Sample ID: JB41556-1A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8081B SW846 3546 **Percent Solids:** 83.3
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	3G77051.D	1	07/15/13	VDT	07/11/13	OP67377	G3G2647
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.78	0.36	ug/kg	
319-84-6	alpha-BHC	ND	0.78	0.23	ug/kg	
319-85-7	beta-BHC	ND	0.78	0.49	ug/kg	
319-86-8	delta-BHC	ND	0.78	0.39	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.78	0.38	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.78	0.29	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.78	0.54	ug/kg	
60-57-1	Dieldrin	ND	0.78	0.31	ug/kg	
72-54-8	4,4'-DDD	ND	0.78	0.43	ug/kg	
72-55-9	4,4'-DDE	ND	0.78	0.32	ug/kg	
50-29-3	4,4'-DDT	ND	0.78	0.39	ug/kg	
72-20-8	Endrin	ND	0.78	0.25	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.78	0.34	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.78	0.41	ug/kg	
959-98-8	Endosulfan-I	ND	0.78	0.30	ug/kg	
33213-65-9	Endosulfan-II	ND	0.78	0.47	ug/kg	
76-44-8	Heptachlor	ND	0.78	0.38	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.78	0.29	ug/kg	
72-43-5	Methoxychlor	ND	1.6	0.77	ug/kg	
53494-70-5	Endrin ketone	ND	0.78	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	105%		10-147%
877-09-8	Tetrachloro-m-xylene	101%		10-147%
2051-24-3	Decachlorobiphenyl	107%		10-154%
2051-24-3	Decachlorobiphenyl	109%		10-154%

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

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-C (5.0-5.5)
Lab Sample ID: JB41556-1A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8082A SW846 3546 **Percent Solids:** 83.3
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	EF121725.D	1	07/15/13	JP	07/11/13	OP67376	GEF4803
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 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	56%		14-139%
877-09-8	Tetrachloro-m-xylene	63%		14-139%
2051-24-3	Decachlorobiphenyl	70%		10-155%
2051-24-3	Decachlorobiphenyl	58%		10-155%

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

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-C (5.0-5.5)
Lab Sample ID: JB41556-1A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: NJDEP EPH SW846 3546 **Percent Solids:** 83.3
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	3Y42796.D	1	07/15/13	GAD	07/11/13	OP67379	G3Y1375
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	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	61%		40-140%
321-60-8	2-Fluorobiphenyl	91%		40-140%
3386-33-2	1-Chlorooctadecane	84%		40-140%
580-13-2	2-Bromonaphthalene	27% [a]		40-140%

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

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: FFSGC-C (5.0-5.5)
Lab Sample ID: JB41556-1A
Matrix: SO - Soil
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Date Sampled: 07/09/13
Date Received: 07/09/13
Percent Solids: 83.3

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	10400	60	mg/kg	1	07/10/13	07/14/13	ND	SW846 6010C [2]	SW846 3050B [3]
Antimony	< 2.4	2.4	mg/kg	1	07/10/13	07/14/13	ND	SW846 6010C [2]	SW846 3050B [3]
Arsenic	11.1	2.4	mg/kg	1	07/10/13	07/14/13	ND	SW846 6010C [2]	SW846 3050B [3]
Barium	32.4	24	mg/kg	1	07/10/13	07/14/13	ND	SW846 6010C [2]	SW846 3050B [3]
Beryllium	1.2	0.24	mg/kg	1	07/10/13	07/14/13	ND	SW846 6010C [2]	SW846 3050B [3]
Cadmium	< 0.60	0.60	mg/kg	1	07/10/13	07/14/13	ND	SW846 6010C [2]	SW846 3050B [3]
Calcium	1570	600	mg/kg	1	07/10/13	07/14/13	ND	SW846 6010C [2]	SW846 3050B [3]
Chromium	95.5	1.2	mg/kg	1	07/10/13	07/14/13	ND	SW846 6010C [2]	SW846 3050B [3]
Cobalt	< 6.0	6.0	mg/kg	1	07/10/13	07/14/13	ND	SW846 6010C [2]	SW846 3050B [3]
Copper	3.6	3.0	mg/kg	1	07/10/13	07/14/13	ND	SW846 6010C [2]	SW846 3050B [3]
Iron	30100	60	mg/kg	1	07/10/13	07/14/13	ND	SW846 6010C [2]	SW846 3050B [3]
Lead	5.7	2.4	mg/kg	1	07/10/13	07/14/13	ND	SW846 6010C [2]	SW846 3050B [3]
Magnesium	3090	600	mg/kg	1	07/10/13	07/14/13	ND	SW846 6010C [2]	SW846 3050B [3]
Manganese	57.3	1.8	mg/kg	1	07/10/13	07/14/13	ND	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	7.0	4.8	mg/kg	1	07/10/13	07/14/13	ND	SW846 6010C [2]	SW846 3050B [3]
Potassium	7060	1200	mg/kg	1	07/10/13	07/14/13	ND	SW846 6010C [2]	SW846 3050B [3]
Selenium	< 2.4	2.4	mg/kg	1	07/10/13	07/14/13	ND	SW846 6010C [2]	SW846 3050B [3]
Silver	< 0.60	0.60	mg/kg	1	07/10/13	07/14/13	ND	SW846 6010C [2]	SW846 3050B [3]
Sodium	< 1200	1200	mg/kg	1	07/10/13	07/14/13	ND	SW846 6010C [2]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	07/10/13	07/14/13	ND	SW846 6010C [2]	SW846 3050B [3]
Vanadium	46.3	6.0	mg/kg	1	07/10/13	07/14/13	ND	SW846 6010C [2]	SW846 3050B [3]
Zinc	36.8	2.4	mg/kg	1	07/10/13	07/14/13	ND	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA31640
(2) Instrument QC Batch: MA31660
(3) Prep QC Batch: MP73120
(4) Prep QC Batch: MP73144

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FFSGC-C (5.0-5.5)		
Lab Sample ID:	JB41556-1A	**Date Sampled:**	07/09/13
Matrix:	SO - Soil	**Date Received:**	07/09/13
		Percent Solids:	83.3
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	< 0.19	0.19	mg/kg	1	07/11/13 14:38	CV	SW846 9012 M/LACHAT

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-A (5.0-5.5)
Lab Sample ID: JB41556-2A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8260B SW846 5035 **Percent Solids:** 81.7
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	Y136173.D	1	07/12/13	RS	07/10/13 10:00	n/a	VY5868
Run #2							

	Initial Weight
Run #1	5.3 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	17.5	12	2.0	ug/kg	
71-43-2	Benzene	ND	1.2	0.14	ug/kg	
74-97-5	Bromochloromethane	ND	5.8	0.31	ug/kg	
75-27-4	Bromodichloromethane	ND	5.8	0.12	ug/kg	
75-25-2	Bromoform	ND	5.8	0.17	ug/kg	
74-83-9	Bromomethane	ND	5.8	0.32	ug/kg	
78-93-3	2-Butanone (MEK)	ND	12	2.8	ug/kg	
75-15-0	Carbon disulfide	ND	5.8	0.14	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.8	0.15	ug/kg	
108-90-7	Chlorobenzene	ND	5.8	0.12	ug/kg	
75-00-3	Chloroethane	ND	5.8	0.26	ug/kg	
67-66-3	Chloroform	ND	5.8	0.095	ug/kg	
74-87-3	Chloromethane	ND	5.8	0.21	ug/kg	
110-82-7	Cyclohexane	ND	5.8	0.14	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	12	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.8	0.19	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.2	0.15	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.8	0.22	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.8	0.22	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.8	0.20	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.8	0.26	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.8	0.16	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.2	0.16	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.8	0.30	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.8	0.21	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.8	0.27	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.8	0.18	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.8	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.8	0.18	ug/kg	
123-91-1	1,4-Dioxane	ND	140	69	ug/kg	
100-41-4	Ethylbenzene	ND	1.2	0.30	ug/kg	
76-13-1	Freon 113	ND	5.8	0.50	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: FFSGC-A (5.0-5.5)
Lab Sample ID: JB41556-2A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8260B SW846 5035 **Percent Solids:** 81.7
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	5.8	0.72	ug/kg	
98-82-8	Isopropylbenzene	ND	5.8	0.086	ug/kg	
79-20-9	Methyl Acetate	ND	5.8	3.0	ug/kg	
108-87-2	Methylcyclohexane	ND	5.8	0.20	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.2	0.27	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.8	0.87	ug/kg	
75-09-2	Methylene chloride	1.8	5.8	1.5	ug/kg	JB
100-42-5	Styrene	ND	5.8	0.11	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.8	0.15	ug/kg	
127-18-4	Tetrachloroethene	ND	5.8	0.20	ug/kg	
108-88-3	Toluene	ND	1.2	0.12	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.8	0.19	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.8	0.16	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.8	0.12	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.8	0.20	ug/kg	
79-01-6	Trichloroethene	ND	5.8	0.20	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.8	0.34	ug/kg	
75-01-4	Vinyl chloride	ND	5.8	0.17	ug/kg	
	m,p-Xylene	ND	1.2	0.20	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	97%		65-131%
17060-07-0	1,2-Dichloroethane-D4	88%		70-121%
2037-26-5	Toluene-D8	97%		80-128%
460-00-4	4-Bromofluorobenzene	94%		67-131%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	9.60	11	ug/kg	J
	Total TIC, Volatile		11	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

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-A (5.0-5.5)
Lab Sample ID: JB41556-2A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8270D SW846 3550C **Percent Solids:** 81.7
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	R100931.D	1	07/18/13	JL	07/11/13	OP67384	ER4019
Run #2							

	Initial Weight	Final Volume
Run #1	31.8 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	38	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	770	47	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	770	47	ug/kg	
95-48-7	2-Methylphenol	ND	77	44	ug/kg	
	3&4-Methylphenol	ND	77	49	ug/kg	
88-75-5	2-Nitrophenol	ND	190	41	ug/kg	
100-02-7	4-Nitrophenol	ND	380	65	ug/kg	
87-86-5	Pentachlorophenol	ND	380	66	ug/kg	
108-95-2	Phenol	ND	77	40	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	38	11	ug/kg	
208-96-8	Acenaphthylene	ND	38	12	ug/kg	
98-86-2	Acetophenone	ND	190	6.8	ug/kg	
120-12-7	Anthracene	ND	38	13	ug/kg	
1912-24-9	Atrazine	ND	190	7.6	ug/kg	
56-55-3	Benzo(a)anthracene	ND	38	13	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	77	14	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	77	22	ug/kg	
92-52-4	1,1'-Biphenyl	ND	77	4.5	ug/kg	
100-52-7	Benzaldehyde	ND	190	8.9	ug/kg	
91-58-7	2-Chloronaphthalene	ND	77	12	ug/kg	
106-47-8	4-Chloroaniline	ND	190	12	ug/kg	
86-74-8	Carbazole	ND	77	18	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: FFSGC-A (5.0-5.5)
Lab Sample ID: JB41556-2A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8270D SW846 3550C **Percent Solids:** 81.7
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	77	12	ug/kg	
218-01-9	Chrysene	ND	38	13	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	77	16	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	77	12	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	77	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	77	12	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	77	17	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	77	15	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	190	9.8	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	38	13	ug/kg	
132-64-9	Dibenzofuran	ND	77	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	77	8.5	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	77	19	ug/kg	
84-66-2	Diethyl phthalate	ND	77	13	ug/kg	
131-11-3	Dimethyl phthalate	177	77	14	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	77	34	ug/kg	
206-44-0	Fluoranthene	ND	38	17	ug/kg	
86-73-7	Fluorene	ND	38	13	ug/kg	
118-74-1	Hexachlorobenzene	ND	77	13	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	77	10	ug/kg	
91-57-6	2-Methylnaphthalene	ND	77	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	11	ug/kg	
98-95-3	Nitrobenzene	ND	77	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	77	9.4	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	190	23	ug/kg	
85-01-8	Phenanthrene	ND	38	18	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	95%		13-110%
4165-62-2	Phenol-d5	90%		15-110%

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:	FFSGC-A (5.0-5.5)		
Lab Sample ID:	JB41556-2A	**Date Sampled:**	07/09/13
Matrix:	SO - Soil	**Date Received:**	07/09/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	81.7
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	97%		20-123%
4165-60-0	Nitrobenzene-d5	85%		10-110%
321-60-8	2-Fluorobiphenyl	89%		17-110%
1718-51-0	Terphenyl-d14	100%		30-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	3.28	280	ug/kg	J
	system artifact/aldol-condensation	3.49	9300	ug/kg	J
	system artifact	3.60	170	ug/kg	J
	C3 alkyl benzene	4.13	250	ug/kg	J
	system artifact	4.25	300	ug/kg	J
10544-50-0	Cyclic octaatomic sulfur	13.23	200	ug/kg	JN
	unknown	22.07	440	ug/kg	J
	unknown	22.19	170	ug/kg	J
	Total TIC, Semi-Volatile		1060	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

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-A (5.0-5.5)
Lab Sample ID: JB41556-2A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8081B SW846 3546 **Percent Solids:** 81.7
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	3G77001.D	1	07/11/13	VDT	07/11/13	OP67377	G3G2645
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 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	ND	0.77	0.31	ug/kg	
50-29-3	4,4'-DDT	ND	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	109%		11-151%
877-09-8	Tetrachloro-m-xylene	125%		11-151%
2051-24-3	Decachlorobiphenyl	92%		11-170%
2051-24-3	Decachlorobiphenyl	110%		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

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-A (5.0-5.5)
Lab Sample ID: JB41556-2A
Matrix: SO - Soil
Method: SW846 8082A SW846 3546
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Date Sampled: 07/09/13
Date Received: 07/09/13
Percent Solids: 81.7

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF121726.D	1	07/15/13	JP	07/11/13	OP67376	GEF4803
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 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	68%		17-146%
877-09-8	Tetrachloro-m-xylene	72%		17-146%
2051-24-3	Decachlorobiphenyl	78%		12-155%
2051-24-3	Decachlorobiphenyl	65%		12-155%

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

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-A (5.0-5.5)
Lab Sample ID: JB41556-2A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: NJDEP EPH SW846 3546 **Percent Solids:** 81.7
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	3Y42797.D	1	07/15/13	GAD	07/11/13	OP67379	G3Y1375
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	6.4	0.19	mg/kg	
	C12-C16 Aromatics	ND	6.4	0.27	mg/kg	
	C16-C21 Aromatics	ND	6.4	0.40	mg/kg	
	C21-C36 Aromatics	ND	6.4	0.64	mg/kg	
	Total Aromatics	ND	6.4	0.19	mg/kg	
	C9-C12 Aliphatics	ND	6.4	0.17	mg/kg	
	C12-C16 Aliphatics	ND	6.4	0.27	mg/kg	
	C16-C21 Aliphatics	ND	6.4	0.24	mg/kg	
	C21-C40 Aliphatics	ND	6.4	0.70	mg/kg	
	Total Aliphatics	ND	6.4	0.17	mg/kg	
	Total EPH	ND	6.4	0.17	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	88%		40-140%
321-60-8	2-Fluorobiphenyl	48%		40-140%
3386-33-2	1-Chlorooctadecane	102%		40-140%
580-13-2	2-Bromonaphthalene	8% [a]		40-140%

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

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: FFSGC-A (5.0-5.5)
Lab Sample ID: JB41556-2A
Matrix: SO - Soil
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Date Sampled: 07/09/13
Date Received: 07/09/13
Percent Solids: 81.7

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	2690	60	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Antimony	< 2.4	2.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Arsenic	< 2.4	2.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Barium	< 24	24	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Beryllium	< 0.24	0.24	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Cadmium	< 0.60	0.60	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Calcium	< 600	600	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Chromium	6.2	1.2	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Cobalt	< 6.0	6.0	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Copper	< 3.0	3.0	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Iron	2020	60	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Lead	3.1	2.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Magnesium	< 600	600	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Manganese	11.8	1.8	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Mercury	< 0.038	0.038	mg/kg	1	07/12/13	07/12/13	JW	SW846 7471B [1]	SW846 7471B [4]
Nickel	< 4.8	4.8	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Potassium	< 1200	1200	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Selenium	< 2.4	2.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Silver	< 0.60	0.60	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Sodium	< 1200	1200	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Vanadium	< 6.0	6.0	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Zinc	3.4	2.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA31640
(2) Instrument QC Batch: MA31708
(3) Prep QC Batch: MP73122
(4) Prep QC Batch: MP73144

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FFSGC-A (5.0-5.5)		
Lab Sample ID:	JB41556-2A	**Date Sampled:**	07/09/13
Matrix:	SO - Soil	**Date Received:**	07/09/13
		Percent Solids:	81.7
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	< 0.20	0.20	mg/kg	1	07/11/13 14:39	CV	SW846 9012 M/LACHAT

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-E (5.0-5.5)
Lab Sample ID: JB41556-3A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8260B SW846 5035 **Percent Solids:** 84.7
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	Y136174.D	1	07/12/13	RS	07/10/13 10:00	n/a	VY5868
Run #2							

	Initial Weight
Run #1	5.6 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	2.5	ug/kg	
75-15-0	Carbon disulfide	ND	5.3	0.12	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.3	0.14	ug/kg	
108-90-7	Chlorobenzene	ND	5.3	0.11	ug/kg	
75-00-3	Chloroethane	ND	5.3	0.24	ug/kg	
67-66-3	Chloroform	ND	5.3	0.087	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	0.94	ug/kg	
124-48-1	Dibromochloromethane	ND	5.3	0.17	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.13	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	0.14	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	0.19	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	0.16	ug/kg	
123-91-1	1,4-Dioxane	ND	130	63	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.28	ug/kg	
76-13-1	Freon 113	ND	5.3	0.45	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: FFSGC-E (5.0-5.5)
Lab Sample ID: JB41556-3A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8260B SW846 5035 **Percent Solids:** 84.7
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	0.66	ug/kg	
98-82-8	Isopropylbenzene	ND	5.3	0.078	ug/kg	
79-20-9	Methyl Acetate	ND	5.3	2.7	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	0.79	ug/kg	
75-09-2	Methylene chloride	4.0	5.3	1.3	ug/kg	JB
100-42-5	Styrene	ND	5.3	0.097	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	0.30	1.1	0.11	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.3	0.17	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	0.18	ug/kg	
79-01-6	Trichloroethene	ND	5.3	0.18	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.3	0.31	ug/kg	
75-01-4	Vinyl chloride	ND	5.3	0.15	ug/kg	
	m,p-Xylene	ND	1.1	0.18	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	97%		65-131%
17060-07-0	1,2-Dichloroethane-D4	87%		70-121%
2037-26-5	Toluene-D8	97%		80-128%
460-00-4	4-Bromofluorobenzene	93%		67-131%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	9.33	14	ug/kg	J
	unknown	9.63	18	ug/kg	J
	Total TIC, Volatile		32	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

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-E (5.0-5.5)
Lab Sample ID: JB41556-3A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8270D SW846 3550C **Percent Solids:** 84.7
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	R100760.D	1	07/12/13	ALS	07/11/13	OP67384	ER4013
Run #2							

	Initial Weight	Final Volume
Run #1	33.4 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	36	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	35	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	57	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	710	43	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	710	43	ug/kg	
95-48-7	2-Methylphenol	ND	71	40	ug/kg	
	3&4-Methylphenol	ND	71	45	ug/kg	
88-75-5	2-Nitrophenol	ND	180	37	ug/kg	
100-02-7	4-Nitrophenol	ND	350	60	ug/kg	
87-86-5	Pentachlorophenol	ND	350	60	ug/kg	
108-95-2	Phenol	ND	71	37	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	36	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	41	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	33	ug/kg	
83-32-9	Acenaphthene	ND	35	10	ug/kg	
208-96-8	Acenaphthylene	ND	35	11	ug/kg	
98-86-2	Acetophenone	ND	180	6.2	ug/kg	
120-12-7	Anthracene	ND	35	12	ug/kg	
1912-24-9	Atrazine	ND	180	7.0	ug/kg	
56-55-3	Benzo(a)anthracene	ND	35	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	35	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	35	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	35	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	35	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	71	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	71	20	ug/kg	
92-52-4	1,1'-Biphenyl	ND	71	4.1	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.1	ug/kg	
91-58-7	2-Chloronaphthalene	ND	71	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	11	ug/kg	
86-74-8	Carbazole	ND	71	16	ug/kg	

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: FFSGC-E (5.0-5.5)
Lab Sample ID: JB41556-3A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8270D SW846 3550C **Percent Solids:** 84.7
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	71	11	ug/kg	
218-01-9	Chrysene	ND	35	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	71	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	71	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	71	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	71	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	71	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	71	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	9.0	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	12	ug/kg	
132-64-9	Dibenzofuran	ND	71	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	71	7.8	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	71	17	ug/kg	
84-66-2	Diethyl phthalate	ND	71	12	ug/kg	
131-11-3	Dimethyl phthalate	168	71	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	71	31	ug/kg	
206-44-0	Fluoranthene	ND	35	16	ug/kg	
86-73-7	Fluorene	ND	35	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	71	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	9.8	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	350	36	ug/kg	
67-72-1	Hexachloroethane	ND	180	9.8	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	35	12	ug/kg	
78-59-1	Isophorone	ND	71	9.5	ug/kg	
91-57-6	2-Methylnaphthalene	ND	71	20	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	ND	35	9.7	ug/kg	
98-95-3	Nitrobenzene	ND	71	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	71	8.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	21	ug/kg	
85-01-8	Phenanthrene	ND	35	16	ug/kg	
129-00-0	Pyrene	ND	35	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	91%		13-110%
4165-62-2	Phenol-d5	86%		15-110%

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:	FFSGC-E (5.0-5.5)		
Lab Sample ID:	JB41556-3A	**Date Sampled:**	07/09/13
Matrix:	SO - Soil	**Date Received:**	07/09/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	84.7
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	102%		20-123%
4165-60-0	Nitrobenzene-d5	88%		10-110%
321-60-8	2-Fluorobiphenyl	91%		17-110%
1718-51-0	Terphenyl-d14	88%		30-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.33	920	ug/kg	J
	system artifact	3.16	150	ug/kg	J
	system artifact	3.33	200	ug/kg	J
	system artifact	3.48	170	ug/kg	J
	system artifact/aldol-condensation	3.54	8400	ug/kg	J
	system artifact	3.65	190	ug/kg	J
	C3 alkyl benzene	4.18	240	ug/kg	J
	unknown	22.23	390	ug/kg	J
	Total TIC, Semi-Volatile		630	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

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-E (5.0-5.5)
Lab Sample ID: JB41556-3A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8081B SW846 3546 **Percent Solids:** 84.7
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	3G77002.D	1	07/11/13	VDT	07/11/13	OP67377	G3G2645
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 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	3.7	0.77	0.31	ug/kg	
50-29-3	4,4'-DDT	3.2	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	98%		11-151%
877-09-8	Tetrachloro-m-xylene	91%		11-151%
2051-24-3	Decachlorobiphenyl	86%		11-170%
2051-24-3	Decachlorobiphenyl	106%		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

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-E (5.0-5.5)
Lab Sample ID: JB41556-3A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8082A SW846 3546 **Percent Solids:** 84.7
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	EF121727.D	1	07/15/13	JP	07/11/13	OP67376	GEF4803
Run #2							

	Initial Weight	Final Volume
Run #1	15.4 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	56%		17-146%
877-09-8	Tetrachloro-m-xylene	59%		17-146%
2051-24-3	Decachlorobiphenyl	68%		12-155%
2051-24-3	Decachlorobiphenyl	59%		12-155%

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

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-E (5.0-5.5)
Lab Sample ID: JB41556-3A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: NJDEP EPH SW846 3546 **Percent Solids:** 84.7
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	3Y42798.D	1	07/15/13	GAD	07/11/13	OP67379	G3Y1375
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	71%		40-140%
321-60-8	2-Fluorobiphenyl	79%		40-140%
3386-33-2	1-Chlorooctadecane	91%		40-140%
580-13-2	2-Bromonaphthalene	29% [a]		40-140%

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

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: FFSGC-E (5.0-5.5)
Lab Sample ID: JB41556-3A
Matrix: SO - Soil
Date Sampled: 07/09/13
Date Received: 07/09/13
Percent Solids: 84.7
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	6040	59	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Antimony	< 2.4	2.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Arsenic	9.6	2.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Barium	38.8	24	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Beryllium	1.1	0.24	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Cadmium	< 0.59	0.59	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Calcium	1540	590	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Chromium	80.5	1.2	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Cobalt	< 5.9	5.9	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Copper	3.0	3.0	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Iron	19700	59	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Lead	3.2	2.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Magnesium	2820	590	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Manganese	17.2	1.8	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Mercury	< 0.038	0.038	mg/kg	1	07/12/13	07/12/13	JW	SW846 7471B [1]	SW846 7471B [4]
Nickel	15.5	4.7	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Potassium	7010	1200	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Selenium	< 2.4	2.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Silver	< 0.59	0.59	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Sodium	< 1200	1200	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Vanadium	36.8	5.9	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Zinc	63.2	2.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA31640
(2) Instrument QC Batch: MA31708
(3) Prep QC Batch: MP73122
(4) Prep QC Batch: MP73144

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FFSGC-E (5.0-5.5)		
Lab Sample ID:	JB41556-3A	**Date Sampled:**	07/09/13
Matrix:	SO - Soil	**Date Received:**	07/09/13
		Percent Solids:	84.7
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	< 0.25	0.25	mg/kg	1	07/11/13 14:40	CV	SW846 9012 M/LACHAT

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-D (5.0-5.5)
Lab Sample ID: JB41556-4A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8260B SW846 5035 **Percent Solids:** 73.8
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	Y136175.D	1	07/12/13	RS	07/10/13 10:00	n/a	VY5868
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	11	1.9	ug/kg	
71-43-2	Benzene	ND	1.1	0.13	ug/kg	
74-97-5	Bromochloromethane	ND	5.6	0.30	ug/kg	
75-27-4	Bromodichloromethane	ND	5.6	0.12	ug/kg	
75-25-2	Bromoform	ND	5.6	0.17	ug/kg	
74-83-9	Bromomethane	ND	5.6	0.31	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.7	ug/kg	
75-15-0	Carbon disulfide	ND	5.6	0.13	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.6	0.15	ug/kg	
108-90-7	Chlorobenzene	ND	5.6	0.12	ug/kg	
75-00-3	Chloroethane	ND	5.6	0.26	ug/kg	
67-66-3	Chloroform	ND	5.6	0.093	ug/kg	
74-87-3	Chloromethane	ND	5.6	0.21	ug/kg	
110-82-7	Cyclohexane	ND	5.6	0.14	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	11	1.0	ug/kg	
124-48-1	Dibromochloromethane	ND	5.6	0.19	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.14	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.6	0.21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.6	0.21	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.6	0.20	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.6	0.26	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.6	0.15	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.15	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.6	0.29	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.6	0.21	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.6	0.27	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.6	0.17	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.6	0.16	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.6	0.18	ug/kg	
123-91-1	1,4-Dioxane	ND	140	67	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.30	ug/kg	
76-13-1	Freon 113	ND	5.6	0.49	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: FFSGC-D (5.0-5.5)
Lab Sample ID: JB41556-4A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8260B SW846 5035 **Percent Solids:** 73.8
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	5.6	0.70	ug/kg	
98-82-8	Isopropylbenzene	ND	5.6	0.084	ug/kg	
79-20-9	Methyl Acetate	ND	5.6	2.9	ug/kg	
108-87-2	Methylcyclohexane	ND	5.6	0.19	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.1	0.27	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.6	0.85	ug/kg	
75-09-2	Methylene chloride	2.3	5.6	1.4	ug/kg	JB
100-42-5	Styrene	ND	5.6	0.10	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.6	0.15	ug/kg	
127-18-4	Tetrachloroethene	ND	5.6	0.19	ug/kg	
108-88-3	Toluene	ND	1.1	0.12	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.6	0.19	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.6	0.16	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.6	0.12	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.6	0.20	ug/kg	
79-01-6	Trichloroethene	ND	5.6	0.20	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.6	0.34	ug/kg	
75-01-4	Vinyl chloride	ND	5.6	0.16	ug/kg	
	m,p-Xylene	ND	1.1	0.20	ug/kg	
95-47-6	o-Xylene	ND	1.1	0.16	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.16	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		65-131%
17060-07-0	1,2-Dichloroethane-D4	90%		70-121%
2037-26-5	Toluene-D8	96%		80-128%
460-00-4	4-Bromofluorobenzene	95%		67-131%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	9.30	13	ug/kg	J
	unknown	9.62	15	ug/kg	J
	Total TIC, Volatile		28	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

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-D (5.0-5.5)
Lab Sample ID: JB41556-4A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8270D SW846 3550C **Percent Solids:** 73.8
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	Z82252.D	1	07/12/13	KH	07/11/13	OP67385	EZ4163
Run #2							

	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	210	43	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	210	43	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	210	69	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	210	72	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	850	52	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	850	52	ug/kg	
95-48-7	2-Methylphenol	ND	85	49	ug/kg	
	3&4-Methylphenol	ND	85	54	ug/kg	
88-75-5	2-Nitrophenol	ND	210	45	ug/kg	
100-02-7	4-Nitrophenol	ND	430	72	ug/kg	
87-86-5	Pentachlorophenol	ND	430	73	ug/kg	
108-95-2	Phenol	ND	85	45	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	210	44	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	210	50	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	210	40	ug/kg	
83-32-9	Acenaphthene	ND	43	12	ug/kg	
208-96-8	Acenaphthylene	ND	43	14	ug/kg	
98-86-2	Acetophenone	ND	210	7.5	ug/kg	
120-12-7	Anthracene	ND	43	15	ug/kg	
1912-24-9	Atrazine	ND	210	8.4	ug/kg	
56-55-3	Benzo(a)anthracene	ND	43	14	ug/kg	
50-32-8	Benzo(a)pyrene	ND	43	13	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	43	14	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	43	16	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	43	16	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	85	16	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	85	25	ug/kg	
92-52-4	1,1'-Biphenyl	ND	85	5.0	ug/kg	
100-52-7	Benzaldehyde	ND	210	9.8	ug/kg	
91-58-7	2-Chloronaphthalene	ND	85	13	ug/kg	
106-47-8	4-Chloroaniline	ND	210	14	ug/kg	
86-74-8	Carbazole	ND	85	20	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: FFSGC-D (5.0-5.5)
Lab Sample ID: JB41556-4A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8270D SW846 3550C **Percent Solids:** 73.8
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	85	13	ug/kg	
218-01-9	Chrysene	ND	43	14	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	85	17	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	85	13	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	85	13	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	85	13	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	85	19	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	85	16	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	210	11	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	43	15	ug/kg	
132-64-9	Dibenzofuran	ND	85	13	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	85	9.5	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	85	21	ug/kg	
84-66-2	Diethyl phthalate	ND	85	15	ug/kg	
131-11-3	Dimethyl phthalate	ND	85	15	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	85	38	ug/kg	
206-44-0	Fluoranthene	ND	43	19	ug/kg	
86-73-7	Fluorene	ND	43	14	ug/kg	
118-74-1	Hexachlorobenzene	ND	85	14	ug/kg	
87-68-3	Hexachlorobutadiene	ND	43	12	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	430	44	ug/kg	
67-72-1	Hexachloroethane	ND	210	12	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	43	15	ug/kg	
78-59-1	Isophorone	ND	85	11	ug/kg	
91-57-6	2-Methylnaphthalene	ND	85	24	ug/kg	
88-74-4	2-Nitroaniline	ND	210	19	ug/kg	
99-09-2	3-Nitroaniline	ND	210	17	ug/kg	
100-01-6	4-Nitroaniline	ND	210	17	ug/kg	
91-20-3	Naphthalene	ND	43	12	ug/kg	
98-95-3	Nitrobenzene	ND	85	12	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	85	10	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	210	26	ug/kg	
85-01-8	Phenanthrene	ND	43	19	ug/kg	
129-00-0	Pyrene	ND	43	16	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	210	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	70%		12-109%
4165-62-2	Phenol-d5	75%		14-108%

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FFSGC-D (5.0-5.5)		
Lab Sample ID:	JB41556-4A	**Date Sampled:**	07/09/13
Matrix:	SO - Soil	**Date Received:**	07/09/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	73.8
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	58%		20-138%
4165-60-0	Nitrobenzene-d5	75%		11-119%
321-60-8	2-Fluorobiphenyl	72%		17-115%
1718-51-0	Terphenyl-d14	88%		30-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.64	650	ug/kg	J
	system artifact	4.00	180	ug/kg	J
	system artifact	4.19	390	ug/kg	J
	system artifact	4.28	230	ug/kg	J
	system artifact/aldol-condensation	4.41	11000	ug/kg	J
	C3 alkyl benzene	5.17	310	ug/kg	JB
13798-23-7	Sulfur	9.57	260	ug/kg	JN
10544-50-0	Cyclic octaatomic sulfur	13.29	680	ug/kg	JN
	Total TIC, Semi-Volatile		940	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

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-D (5.0-5.5)
Lab Sample ID: JB41556-4A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8081B SW846 3546 **Percent Solids:** 73.8
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	3G77003.D	1	07/11/13	VDT	07/11/13	OP67377	G3G2645
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.90	0.41	ug/kg	
319-84-6	alpha-BHC	ND	0.90	0.27	ug/kg	
319-85-7	beta-BHC	ND	0.90	0.56	ug/kg	
319-86-8	delta-BHC	ND	0.90	0.44	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.90	0.44	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.90	0.33	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.90	0.62	ug/kg	
60-57-1	Dieldrin	ND	0.90	0.35	ug/kg	
72-54-8	4,4'-DDD	ND	0.90	0.49	ug/kg	
72-55-9	4,4'-DDE	ND	0.90	0.36	ug/kg	
50-29-3	4,4'-DDT	ND	0.90	0.44	ug/kg	
72-20-8	Endrin	ND	0.90	0.29	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.90	0.39	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.90	0.47	ug/kg	
959-98-8	Endosulfan-I	ND	0.90	0.34	ug/kg	
33213-65-9	Endosulfan-II	ND	0.90	0.54	ug/kg	
76-44-8	Heptachlor	ND	0.90	0.44	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.90	0.34	ug/kg	
72-43-5	Methoxychlor	ND	1.8	0.88	ug/kg	
53494-70-5	Endrin ketone	ND	0.90	0.37	ug/kg	
8001-35-2	Toxaphene	ND	22	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	64%		11-151%
877-09-8	Tetrachloro-m-xylene	68%		11-151%
2051-24-3	Decachlorobiphenyl	56%		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

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-D (5.0-5.5)
Lab Sample ID: JB41556-4A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8082A SW846 3546 **Percent Solids:** 73.8
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	EF121728.D	1	07/15/13	JP	07/11/13	OP67376	GEF4803
Run #2							

	Initial Weight	Final Volume
Run #1	15.1 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	45	12	ug/kg	
11104-28-2	Aroclor 1221	ND	45	27	ug/kg	
11141-16-5	Aroclor 1232	ND	45	23	ug/kg	
53469-21-9	Aroclor 1242	ND	45	14	ug/kg	
12672-29-6	Aroclor 1248	ND	45	14	ug/kg	
11097-69-1	Aroclor 1254	ND	45	21	ug/kg	
11096-82-5	Aroclor 1260	ND	45	15	ug/kg	
11100-14-4	Aroclor 1268	ND	45	13	ug/kg	
37324-23-5	Aroclor 1262	ND	45	14	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	54%		17-146%
877-09-8	Tetrachloro-m-xylene	57%		17-146%
2051-24-3	Decachlorobiphenyl	69%		12-155%
2051-24-3	Decachlorobiphenyl	61%		12-155%

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

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-D (5.0-5.5)
Lab Sample ID: JB41556-4A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: NJDEP EPH SW846 3546 **Percent Solids:** 73.8
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	3Y42799.D	1	07/15/13	GAD	07/11/13	OP67379	G3Y1375
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	7.2	0.22	mg/kg	
	C12-C16 Aromatics	ND	7.2	0.31	mg/kg	
	C16-C21 Aromatics	ND	7.2	0.45	mg/kg	
	C21-C36 Aromatics	ND	7.2	0.72	mg/kg	
	Total Aromatics	ND	7.2	0.22	mg/kg	
	C9-C12 Aliphatics	ND	7.2	0.20	mg/kg	
	C12-C16 Aliphatics	ND	7.2	0.31	mg/kg	
	C16-C21 Aliphatics	ND	7.2	0.27	mg/kg	
	C21-C40 Aliphatics	ND	7.2	0.79	mg/kg	
	Total Aliphatics	ND	7.2	0.20	mg/kg	
	Total EPH	ND	7.2	0.20	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	62%		40-140%
321-60-8	2-Fluorobiphenyl	63%		40-140%
3386-33-2	1-Chlorooctadecane	76%		40-140%
580-13-2	2-Bromonaphthalene	11% [a]		40-140%

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

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: FFSGC-D (5.0-5.5)
Lab Sample ID: JB41556-4A
Matrix: SO - Soil
Date Sampled: 07/09/13
Date Received: 07/09/13
Percent Solids: 73.8
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	6440	71	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Antimony	< 2.9	2.9	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Arsenic	30.5	2.9	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Barium	135	29	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Beryllium	1.2	0.29	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Cadmium	< 0.71	0.71	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Calcium	3130	710	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Chromium	57.7	1.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Cobalt	< 7.1	7.1	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Copper	6.7	3.6	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Iron	19400	71	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Lead	4.1	2.9	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Magnesium	2880	710	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Manganese	41.7	2.1	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Mercury	0.045	0.043	mg/kg	1	07/12/13	07/12/13	JW	SW846 7471B [1]	SW846 7471B [4]
Nickel	31.8	5.7	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Potassium	4720	1400	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Selenium	4.2	2.9	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Silver	< 0.71	0.71	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Sodium	< 1400	1400	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Thallium	< 1.4	1.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Vanadium	25.8	7.1	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Zinc	74.2	2.9	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA31640
(2) Instrument QC Batch: MA31708
(3) Prep QC Batch: MP73122
(4) Prep QC Batch: MP73144

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FFSGC-D (5.0-5.5)		
Lab Sample ID:	JB41556-4A	**Date Sampled:**	07/09/13
Matrix:	SO - Soil	**Date Received:**	07/09/13
		Percent Solids:	73.8
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	< 0.22	0.22	mg/kg	1	07/11/13 14:41	CV	SW846 9012 M/LACHAT

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-B (5.0-5.5)
Lab Sample ID: JB41556-5A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8260B SW846 5035 **Percent Solids:** 83.1
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	Y136176.D	1	07/12/13	RS	07/10/13 10:00	n/a	VY5868
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	5.5	0.29	ug/kg	
75-27-4	Bromodichloromethane	ND	5.5	0.11	ug/kg	
75-25-2	Bromoform	ND	5.5	0.17	ug/kg	
74-83-9	Bromomethane	ND	5.5	0.30	ug/kg	
78-93-3	2-Butanone (MEK)	ND	11	2.6	ug/kg	
75-15-0	Carbon disulfide	0.90	5.5	0.13	ug/kg	J
56-23-5	Carbon tetrachloride	ND	5.5	0.15	ug/kg	
108-90-7	Chlorobenzene	ND	5.5	0.12	ug/kg	
75-00-3	Chloroethane	ND	5.5	0.25	ug/kg	
67-66-3	Chloroform	ND	5.5	0.090	ug/kg	
74-87-3	Chloromethane	ND	5.5	0.20	ug/kg	
110-82-7	Cyclohexane	ND	5.5	0.14	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	11	0.97	ug/kg	
124-48-1	Dibromochloromethane	ND	5.5	0.18	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.14	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.5	0.21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.5	0.20	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.5	0.19	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.5	0.25	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.5	0.15	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.15	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.5	0.28	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.5	0.20	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.5	0.26	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.5	0.17	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.5	0.15	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.5	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	ND	5.5	0.47	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: FFSGC-B (5.0-5.5)
Lab Sample ID: JB41556-5A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8260B SW846 5035 **Percent Solids:** 83.1
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	5.5	0.68	ug/kg	
98-82-8	Isopropylbenzene	ND	5.5	0.081	ug/kg	
79-20-9	Methyl Acetate	ND	5.5	2.8	ug/kg	
108-87-2	Methylcyclohexane	ND	5.5	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	5.5	0.82	ug/kg	
75-09-2	Methylene chloride	2.4	5.5	1.4	ug/kg	JB
100-42-5	Styrene	ND	5.5	0.10	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	0.14	ug/kg	
127-18-4	Tetrachloroethene	ND	5.5	0.19	ug/kg	
108-88-3	Toluene	ND	1.1	0.11	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.5	0.18	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.5	0.15	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.5	0.12	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.5	0.19	ug/kg	
79-01-6	Trichloroethene	ND	5.5	0.19	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.5	0.33	ug/kg	
75-01-4	Vinyl chloride	ND	5.5	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	98%		65-131%
17060-07-0	1,2-Dichloroethane-D4	90%		70-121%
2037-26-5	Toluene-D8	96%		80-128%
460-00-4	4-Bromofluorobenzene	96%		67-131%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	8.56	5.6	ug/kg	J
	unknown	9.29	11	ug/kg	J
	unknown	9.62	15	ug/kg	J
	Total TIC, Volatile		31.6	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

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-B (5.0-5.5)
Lab Sample ID: JB41556-5A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8270D SW846 3550C **Percent Solids:** 83.1
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	Z82253.D	1	07/12/13	KH	07/11/13	OP67385	EZ4163
Run #2							

	Initial Weight	Final Volume
Run #1	33.8 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	36	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	36	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	57	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	60	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	710	43	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	710	43	ug/kg	
95-48-7	2-Methylphenol	ND	71	41	ug/kg	
	3&4-Methylphenol	ND	71	45	ug/kg	
88-75-5	2-Nitrophenol	ND	180	38	ug/kg	
100-02-7	4-Nitrophenol	ND	360	60	ug/kg	
87-86-5	Pentachlorophenol	ND	360	61	ug/kg	
108-95-2	Phenol	ND	71	37	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	37	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	41	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	33	ug/kg	
83-32-9	Acenaphthene	ND	36	10	ug/kg	
208-96-8	Acenaphthylene	ND	36	11	ug/kg	
98-86-2	Acetophenone	ND	180	6.3	ug/kg	
120-12-7	Anthracene	ND	36	12	ug/kg	
1912-24-9	Atrazine	ND	180	7.0	ug/kg	
56-55-3	Benzo(a)anthracene	ND	36	12	ug/kg	
50-32-8	Benzo(a)pyrene	ND	36	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	36	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	36	13	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	36	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	71	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	71	21	ug/kg	
92-52-4	1,1'-Biphenyl	ND	71	4.1	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.2	ug/kg	
91-58-7	2-Chloronaphthalene	ND	71	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	11	ug/kg	
86-74-8	Carbazole	ND	71	16	ug/kg	

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: FFSGC-B (5.0-5.5)
Lab Sample ID: JB41556-5A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8270D SW846 3550C **Percent Solids:** 83.1
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	71	11	ug/kg	
218-01-9	Chrysene	ND	36	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	71	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	71	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	71	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	71	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	71	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	71	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	9.0	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	36	12	ug/kg	
132-64-9	Dibenzofuran	ND	71	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	71	7.9	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	71	17	ug/kg	
84-66-2	Diethyl phthalate	ND	71	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	71	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	71	31	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	71	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	36	9.9	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	360	36	ug/kg	
67-72-1	Hexachloroethane	ND	180	9.9	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	36	12	ug/kg	
78-59-1	Isophorone	ND	71	9.6	ug/kg	
91-57-6	2-Methylnaphthalene	ND	71	20	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	ND	36	9.7	ug/kg	
98-95-3	Nitrobenzene	ND	71	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	71	8.7	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	21	ug/kg	
85-01-8	Phenanthrene	ND	36	16	ug/kg	
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	70%		12-109%
4165-62-2	Phenol-d5	75%		14-108%

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:	FFSGC-B (5.0-5.5)		
Lab Sample ID:	JB41556-5A	**Date Sampled:**	07/09/13
Matrix:	SO - Soil	**Date Received:**	07/09/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.1
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	72%		20-138%
4165-60-0	Nitrobenzene-d5	80%		11-119%
321-60-8	2-Fluorobiphenyl	75%		17-115%
1718-51-0	Terphenyl-d14	93%		30-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.65	580	ug/kg	J
	system artifact	4.19	350	ug/kg	J
	system artifact	4.28	240	ug/kg	J
	system artifact/aldol-condensation	4.42	13000	ug/kg	J
	system artifact	4.51	200	ug/kg	J
	C3 alkyl benzene	5.17	300	ug/kg	JB
10544-50-0	Cyclic octaatomic sulfur	13.29	390	ug/kg	JN
	Total TIC, Semi-Volatile		390	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

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-B (5.0-5.5)
Lab Sample ID: JB41556-5A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8081B SW846 3546 **Percent Solids:** 83.1
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	3G77004.D	1	07/11/13	VDT	07/11/13	OP67377	G3G2645
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 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	70%		11-151%
877-09-8	Tetrachloro-m-xylene	89%		11-151%
2051-24-3	Decachlorobiphenyl	60%		11-170%
2051-24-3	Decachlorobiphenyl	68%		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

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-B (5.0-5.5)
Lab Sample ID: JB41556-5A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8082A SW846 3546 **Percent Solids:** 83.1
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	EF121729.D	1	07/15/13	JP	07/11/13	OP67376	GEF4803
Run #2							

	Initial Weight	Final Volume
Run #1	15.3 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	13	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	13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	53%		17-146%
877-09-8	Tetrachloro-m-xylene	56%		17-146%
2051-24-3	Decachlorobiphenyl	65%		12-155%
2051-24-3	Decachlorobiphenyl	59%		12-155%

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

Accutest Laboratories

Report of Analysis

Client Sample ID: FFSGC-B (5.0-5.5)
Lab Sample ID: JB41556-5A
Matrix: SO - Soil
Method: NJDEP EPH SW846 3546
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Date Sampled: 07/09/13
Date Received: 07/09/13
Percent Solids: 83.1

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Y42800.D	1	07/15/13	GAD	07/11/13	OP67379	G3Y1375
Run #2							

	Initial Weight	Final Volume
Run #1	16.3 g	2.0 ml
Run #2		

NJDEP EPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C10-C12 Aromatics	ND	5.9	0.18	mg/kg	
	C12-C16 Aromatics	ND	5.9	0.25	mg/kg	
	C16-C21 Aromatics	ND	5.9	0.37	mg/kg	
	C21-C36 Aromatics	ND	5.9	0.59	mg/kg	
	Total Aromatics	ND	5.9	0.18	mg/kg	
	C9-C12 Aliphatics	ND	5.9	0.16	mg/kg	
	C12-C16 Aliphatics	ND	5.9	0.25	mg/kg	
	C16-C21 Aliphatics	ND	5.9	0.22	mg/kg	
	C21-C40 Aliphatics	ND	5.9	0.65	mg/kg	
	Total Aliphatics	ND	5.9	0.16	mg/kg	
	Total EPH	ND	5.9	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	68%		40-140%
3386-33-2	1-Chlorooctadecane	77%		40-140%
580-13-2	2-Bromonaphthalene	15% [a]		40-140%

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

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: FFSGC-B (5.0-5.5)
Lab Sample ID: JB41556-5A
Matrix: SO - Soil
Date Sampled: 07/09/13
Date Received: 07/09/13
Percent Solids: 83.1
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	5190	60	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Antimony	< 2.4	2.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Arsenic	40.5	2.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Barium	98.8	24	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Beryllium	1.6	0.24	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Cadmium	< 0.60	0.60	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Calcium	2480	600	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Chromium	80.0	1.2	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Cobalt	< 6.0	6.0	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Copper	3.2	3.0	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Iron	23000	60	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Lead	3.4	2.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Magnesium	2900	600	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Manganese	18.9	1.8	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Mercury	< 0.040	0.040	mg/kg	1	07/12/13	07/12/13	JW	SW846 7471B [1]	SW846 7471B [4]
Nickel	20.6	4.8	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Potassium	7370	1200	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Selenium	2.5	2.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Silver	< 0.60	0.60	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Sodium	< 1200	1200	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Vanadium	28.7	6.0	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Zinc	33.1	2.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA31640
(2) Instrument QC Batch: MA31708
(3) Prep QC Batch: MP73122
(4) Prep QC Batch: MP73144

RL = Reporting Limit

Report of Analysis

Client Sample ID: FFSGC-B (5.0-5.5)
Lab Sample ID: JB41556-5A
Matrix: SO - Soil
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Date Sampled: 07/09/13
Date Received: 07/09/13
Percent Solids: 83.1

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Cyanide	< 0.23	0.23	mg/kg	1	07/11/13 14:42	CV	SW846 9012 M/LACHAT

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID: SUST-A (5.0-5.5)
Lab Sample ID: JB41556-6A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8260B SW846 5035 **Percent Solids:** 87.6
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	Y136177.D	1	07/12/13	RS	07/10/13 10:00	n/a	VY5868
Run #2							

	Initial Weight
Run #1	5.3 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	0.29	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	0.24	ug/kg	
67-66-3	Chloroform	ND	5.4	0.089	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	0.96	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	0.20	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	130	64	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.28	ug/kg	
76-13-1	Freon 113	ND	5.4	0.46	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: SUST-A (5.0-5.5)
Lab Sample ID: JB41556-6A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8260B SW846 5035 **Percent Solids:** 87.6
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	0.67	ug/kg	
98-82-8	Isopropylbenzene	ND	5.4	0.080	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	0.25	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.4	0.81	ug/kg	
75-09-2	Methylene chloride	3.3	5.4	1.4	ug/kg	JB
100-42-5	Styrene	ND	5.4	0.099	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	0.27	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	0.11	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	97%		65-131%
17060-07-0	1,2-Dichloroethane-D4	88%		70-121%
2037-26-5	Toluene-D8	97%		80-128%
460-00-4	4-Bromofluorobenzene	93%		67-131%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	8.56	6.1	ug/kg	J
	unknown	9.34	9.7	ug/kg	J
	unknown	9.61	14	ug/kg	J
	Total TIC, Volatile		29.8	ug/kg	J
	Total Alkanes		0	ug/kg	

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

Accutest Laboratories

Report of Analysis

Client Sample ID: SUST-A (5.0-5.5)
Lab Sample ID: JB41556-6A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8270D SW846 3550C **Percent Solids:** 87.6
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	Z82254.D	1	07/12/13	KH	07/11/13	OP67385	EZ4163
Run #2							

	Initial Weight	Final Volume
Run #1	31.3 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	59	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	42	ug/kg	
	3&4-Methylphenol	ND	73	46	ug/kg	
88-75-5	2-Nitrophenol	ND	180	39	ug/kg	
100-02-7	4-Nitrophenol	ND	360	62	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	38	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	

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: SUST-A (5.0-5.5)
Lab Sample ID: JB41556-6A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8270D SW846 3550C **Percent Solids:** 87.6
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	9.3	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	10	ug/kg	
98-95-3	Nitrobenzene	ND	73	11	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	76%		12-109%
4165-62-2	Phenol-d5	76%		14-108%

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

Client Sample ID:	SUST-A (5.0-5.5)		
Lab Sample ID:	JB41556-6A	**Date Sampled:**	07/09/13
Matrix:	SO - Soil	**Date Received:**	07/09/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	87.6
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	87%		20-138%
4165-60-0	Nitrobenzene-d5	80%		11-119%
321-60-8	2-Fluorobiphenyl	77%		17-115%
1718-51-0	Terphenyl-d14	117%		30-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.65	240	ug/kg	J
	system artifact	4.19	400	ug/kg	J
	system artifact	4.28	250	ug/kg	J
	system artifact/aldol-condensation	4.41	12000	ug/kg	J
	C3 alkyl benzene	5.17	270	ug/kg	JB
	unknown	5.36	310	ug/kg	J
	Total TIC, Semi-Volatile		310	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

Accutest Laboratories

Report of Analysis

Client Sample ID: SUST-A (5.0-5.5)
Lab Sample ID: JB41556-6A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8081B SW846 3546 **Percent Solids:** 87.6
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	3G77005.D	1	07/11/13	VDT	07/11/13	OP67377	G3G2645
Run #2							

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

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.70	0.32	ug/kg	
319-84-6	alpha-BHC	ND	0.70	0.21	ug/kg	
319-85-7	beta-BHC	ND	0.70	0.44	ug/kg	
319-86-8	delta-BHC	ND	0.70	0.35	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.70	0.34	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.70	0.26	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.70	0.48	ug/kg	
60-57-1	Dieldrin	ND	0.70	0.27	ug/kg	
72-54-8	4,4'-DDD	ND	0.70	0.38	ug/kg	
72-55-9	4,4'-DDE	0.99	0.70	0.28	ug/kg	
50-29-3	4,4'-DDT	0.83	0.70	0.35	ug/kg	
72-20-8	Endrin	ND	0.70	0.23	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.70	0.30	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.70	0.37	ug/kg	
959-98-8	Endosulfan-I	ND	0.70	0.27	ug/kg	
33213-65-9	Endosulfan-II	ND	0.70	0.42	ug/kg	
76-44-8	Heptachlor	ND	0.70	0.34	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.70	0.26	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.69	ug/kg	
53494-70-5	Endrin ketone	ND	0.70	0.29	ug/kg	
8001-35-2	Toxaphene	ND	18	8.8	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	77%		11-151%
877-09-8	Tetrachloro-m-xylene	74%		11-151%
2051-24-3	Decachlorobiphenyl	72%		11-170%
2051-24-3	Decachlorobiphenyl	84%		11-170%

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

Accutest Laboratories

Report of Analysis

Client Sample ID: SUST-A (5.0-5.5)
Lab Sample ID: JB41556-6A
Matrix: SO - Soil
Method: SW846 8082A SW846 3546
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Date Sampled: 07/09/13
Date Received: 07/09/13
Percent Solids: 87.6

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF121730.D	1	07/15/13	JP	07/11/13	OP67376	GEF4803
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	35	9.1	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	16	ug/kg	
11096-82-5	Aroclor 1260	ND	35	11	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	52%		17-146%
877-09-8	Tetrachloro-m-xylene	56%		17-146%
2051-24-3	Decachlorobiphenyl	64%		12-155%
2051-24-3	Decachlorobiphenyl	59%		12-155%

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

Accutest Laboratories

Report of Analysis

Client Sample ID: SUST-A (5.0-5.5)
Lab Sample ID: JB41556-6A
Matrix: SO - Soil
Method: NJDEP EPH SW846 3546
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Date Sampled: 07/09/13
Date Received: 07/09/13
Percent Solids: 87.6

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3Y42801.D	1	07/15/13	GAD	07/11/13	OP67379	G3Y1375
Run #2							

	Initial Weight	Final Volume
Run #1	16.7 g	2.0 ml
Run #2		

NJDEP EPH List

CAS No.	Compound	Result	RL	MDL	Units	Q
	C10-C12 Aromatics	ND	5.5	0.16	mg/kg	
	C12-C16 Aromatics	ND	5.5	0.23	mg/kg	
	C16-C21 Aromatics	ND	5.5	0.34	mg/kg	
	C21-C36 Aromatics	ND	5.5	0.55	mg/kg	
	Total Aromatics	ND	5.5	0.16	mg/kg	
	C9-C12 Aliphatics	ND	5.5	0.15	mg/kg	
	C12-C16 Aliphatics	ND	5.5	0.23	mg/kg	
	C16-C21 Aliphatics	ND	5.5	0.21	mg/kg	
	C21-C40 Aliphatics	ND	5.5	0.60	mg/kg	
	Total Aliphatics	ND	5.5	0.15	mg/kg	
	Total EPH	ND	5.5	0.15	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	71%		40-140%
321-60-8	2-Fluorobiphenyl	89%		40-140%
3386-33-2	1-Chlorooctadecane	91%		40-140%
580-13-2	2-Bromonaphthalene	48%		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

Client Sample ID: SUST-A (5.0-5.5)
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Matrix: SO - Soil
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Percent Solids: 87.6
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	3580	57	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Antimony	< 2.3	2.3	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Arsenic	< 2.3	2.3	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Barium	46.3	23	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Beryllium	0.42	0.23	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Cadmium	< 0.57	0.57	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Calcium	< 570	570	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Chromium	28.1	1.1	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Cobalt	< 5.7	5.7	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Copper	3.0	2.9	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Iron	5750	57	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Lead	2.9	2.3	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Magnesium	604	570	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Manganese	4.8	1.7	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Mercury	< 0.035	0.035	mg/kg	1	07/12/13	07/12/13	JW	SW846 7471B [1]	SW846 7471B [4]
Nickel	< 4.6	4.6	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Potassium	1520	1100	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Selenium	< 2.3	2.3	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Silver	< 0.57	0.57	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Sodium	< 1100	1100	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Thallium	< 1.1	1.1	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Vanadium	12.9	5.7	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Zinc	10.5	2.3	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA31640
(2) Instrument QC Batch: MA31708
(3) Prep QC Batch: MP73122
(4) Prep QC Batch: MP73144

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SUST-A (5.0-5.5)		
Lab Sample ID:	JB41556-6A	**Date Sampled:**	07/09/13
Matrix:	SO - Soil	**Date Received:**	07/09/13
		Percent Solids:	87.6
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	< 0.17	0.17	mg/kg	1	07/11/13 14:44	CV	SW846 9012 M/LACHAT

RL = Reporting Limit

Accutest Laboratories

Report of Analysis

Client Sample ID: SUST-B (5.0-5.5)
Lab Sample ID: JB41556-7A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8260B SW846 5035 **Percent Solids:** 88.2
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	Y136178.D	1	07/12/13	RS	07/10/13 10:00	n/a	VY5868
Run #2							

	Initial Weight
Run #1	4.2 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	13	2.3	ug/kg	
71-43-2	Benzene	ND	1.3	0.16	ug/kg	
74-97-5	Bromochloromethane	ND	6.7	0.36	ug/kg	
75-27-4	Bromodichloromethane	ND	6.7	0.14	ug/kg	
75-25-2	Bromoform	ND	6.7	0.20	ug/kg	
74-83-9	Bromomethane	ND	6.7	0.37	ug/kg	
78-93-3	2-Butanone (MEK)	ND	13	3.2	ug/kg	
75-15-0	Carbon disulfide	ND	6.7	0.16	ug/kg	
56-23-5	Carbon tetrachloride	ND	6.7	0.18	ug/kg	
108-90-7	Chlorobenzene	ND	6.7	0.15	ug/kg	
75-00-3	Chloroethane	ND	6.7	0.31	ug/kg	
67-66-3	Chloroform	ND	6.7	0.11	ug/kg	
74-87-3	Chloromethane	ND	6.7	0.25	ug/kg	
110-82-7	Cyclohexane	ND	6.7	0.17	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	13	1.2	ug/kg	
124-48-1	Dibromochloromethane	ND	6.7	0.22	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.3	0.17	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	6.7	0.26	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	6.7	0.25	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	6.7	0.24	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	6.7	0.31	ug/kg	
75-34-3	1,1-Dichloroethane	ND	6.7	0.18	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.3	0.18	ug/kg	
75-35-4	1,1-Dichloroethene	ND	6.7	0.35	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	6.7	0.25	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	6.7	0.32	ug/kg	
78-87-5	1,2-Dichloropropane	ND	6.7	0.21	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	6.7	0.19	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	6.7	0.21	ug/kg	
123-91-1	1,4-Dioxane	ND	170	80	ug/kg	
100-41-4	Ethylbenzene	ND	1.3	0.35	ug/kg	
76-13-1	Freon 113	ND	6.7	0.58	ug/kg	

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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SUST-B (5.0-5.5)
Lab Sample ID: JB41556-7A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8260B SW846 5035 **Percent Solids:** 88.2
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	6.7	0.84	ug/kg	
98-82-8	Isopropylbenzene	ND	6.7	0.10	ug/kg	
79-20-9	Methyl Acetate	ND	6.7	3.5	ug/kg	
108-87-2	Methylcyclohexane	ND	6.7	0.23	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.3	0.32	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	6.7	1.0	ug/kg	
75-09-2	Methylene chloride	4.8	6.7	1.7	ug/kg	JB
100-42-5	Styrene	ND	6.7	0.12	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	6.7	0.18	ug/kg	
127-18-4	Tetrachloroethene	ND	6.7	0.23	ug/kg	
108-88-3	Toluene	0.36	1.3	0.14	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	6.7	0.22	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	6.7	0.19	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	6.7	0.14	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	6.7	0.23	ug/kg	
79-01-6	Trichloroethene	ND	6.7	0.23	ug/kg	
75-69-4	Trichlorofluoromethane	ND	6.7	0.40	ug/kg	
75-01-4	Vinyl chloride	ND	6.7	0.19	ug/kg	
	m,p-Xylene	ND	1.3	0.23	ug/kg	
95-47-6	o-Xylene	ND	1.3	0.19	ug/kg	
1330-20-7	Xylene (total)	ND	1.3	0.19	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		65-131%
17060-07-0	1,2-Dichloroethane-D4	89%		70-121%
2037-26-5	Toluene-D8	97%		80-128%
460-00-4	4-Bromofluorobenzene	93%		67-131%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	unknown	9.61	9.6	ug/kg	J
	Total TIC, Volatile		9.6	ug/kg	J
	Total Alkanes		0	ug/kg	

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Report of Analysis

Client Sample ID: SUST-B (5.0-5.5)
Lab Sample ID: JB41556-7A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8270D SW846 3550C **Percent Solids:** 88.2
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	Z82255.D	1	07/12/13	KH	07/11/13	OP67385	EZ4163
Run #2							

	Initial Weight	Final Volume
Run #1	34.2 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	170	33	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	170	33	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	170	53	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	170	56	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	660	40	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	660	40	ug/kg	
95-48-7	2-Methylphenol	ND	66	38	ug/kg	
	3&4-Methylphenol	ND	66	42	ug/kg	
88-75-5	2-Nitrophenol	ND	170	35	ug/kg	
100-02-7	4-Nitrophenol	ND	330	56	ug/kg	
87-86-5	Pentachlorophenol	ND	330	57	ug/kg	
108-95-2	Phenol	ND	66	35	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	170	34	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	170	38	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	170	31	ug/kg	
83-32-9	Acenaphthene	ND	33	9.6	ug/kg	
208-96-8	Acenaphthylene	ND	33	11	ug/kg	
98-86-2	Acetophenone	ND	170	5.8	ug/kg	
120-12-7	Anthracene	ND	33	12	ug/kg	
1912-24-9	Atrazine	ND	170	6.5	ug/kg	
56-55-3	Benzo(a)anthracene	ND	33	11	ug/kg	
50-32-8	Benzo(a)pyrene	ND	33	10	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	33	11	ug/kg	
191-24-2	Benzo(g,h,i)perylene	ND	33	12	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	33	12	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	66	12	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	66	19	ug/kg	
92-52-4	1,1'-Biphenyl	ND	66	3.8	ug/kg	
100-52-7	Benzaldehyde	ND	170	7.6	ug/kg	
91-58-7	2-Chloronaphthalene	ND	66	10	ug/kg	
106-47-8	4-Chloroaniline	ND	170	11	ug/kg	
86-74-8	Carbazole	ND	66	15	ug/kg	

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

Client Sample ID: SUST-B (5.0-5.5)
Lab Sample ID: JB41556-7A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8270D SW846 3550C **Percent Solids:** 88.2
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	66	10	ug/kg	
218-01-9	Chrysene	ND	33	11	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	66	13	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	66	10	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	66	9.8	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	66	10	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	66	14	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	66	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	170	8.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	33	11	ug/kg	
132-64-9	Dibenzofuran	ND	66	9.8	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	66	7.4	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	66	16	ug/kg	
84-66-2	Diethyl phthalate	ND	66	11	ug/kg	
131-11-3	Dimethyl phthalate	ND	66	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	66	29	ug/kg	
206-44-0	Fluoranthene	ND	33	15	ug/kg	
86-73-7	Fluorene	ND	33	11	ug/kg	
118-74-1	Hexachlorobenzene	ND	66	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	33	9.2	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	330	34	ug/kg	
67-72-1	Hexachloroethane	ND	170	9.2	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	33	12	ug/kg	
78-59-1	Isophorone	ND	66	8.9	ug/kg	
91-57-6	2-Methylnaphthalene	ND	66	18	ug/kg	
88-74-4	2-Nitroaniline	ND	170	15	ug/kg	
99-09-2	3-Nitroaniline	ND	170	13	ug/kg	
100-01-6	4-Nitroaniline	ND	170	13	ug/kg	
91-20-3	Naphthalene	ND	33	9.1	ug/kg	
98-95-3	Nitrobenzene	ND	66	9.6	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	66	8.1	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	170	20	ug/kg	
85-01-8	Phenanthrene	ND	33	15	ug/kg	
129-00-0	Pyrene	ND	33	13	ug/kg	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	170	10	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	61%		12-109%
4165-62-2	Phenol-d5	64%		14-108%

ND = Not detected MDL - Method Detection Limit
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Report of Analysis

Client Sample ID:	SUST-B (5.0-5.5)		
Lab Sample ID:	JB41556-7A	**Date Sampled:**	07/09/13
Matrix:	SO - Soil	**Date Received:**	07/09/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	88.2
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	65%		20-138%
4165-60-0	Nitrobenzene-d5	69%		11-119%
321-60-8	2-Fluorobiphenyl	65%		17-115%
1718-51-0	Terphenyl-d14	80%		30-141%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	2.65	300	ug/kg	J
	system artifact	4.19	310	ug/kg	J
	system artifact	4.28	220	ug/kg	J
	system artifact/aldol-condensation	4.41	9400	ug/kg	J
	C3 alkyl benzene	5.17	210	ug/kg	JB
	unknown	5.36	290	ug/kg	J
	unknown	20.95	160	ug/kg	J
	Total TIC, Semi-Volatile		450	ug/kg	J
	Total Alkanes		0	ug/kg	

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Accutest Laboratories

Report of Analysis

Client Sample ID: SUST-B (5.0-5.5)
Lab Sample ID: JB41556-7A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: SW846 8081B SW846 3546 **Percent Solids:** 88.2
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	3G77006.D	1	07/11/13	VDT	07/11/13	OP67377	G3G2645
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.71	0.33	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	0.29	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	0.31	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	0.43	ug/kg	
76-44-8	Heptachlor	ND	0.71	0.35	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.71	0.27	ug/kg	
72-43-5	Methoxychlor	ND	1.4	0.70	ug/kg	
53494-70-5	Endrin ketone	ND	0.71	0.29	ug/kg	
8001-35-2	Toxaphene	ND	18	9.0	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	63%		11-151%
2051-24-3	Decachlorobiphenyl	66%		11-170%
2051-24-3	Decachlorobiphenyl	75%		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

Accutest Laboratories

Report of Analysis

Client Sample ID: SUST-B (5.0-5.5)
Lab Sample ID: JB41556-7A
Matrix: SO - Soil
Method: SW846 8082A SW846 3546
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Date Sampled: 07/09/13
Date Received: 07/09/13
Percent Solids: 88.2

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	EF121731.D	1	07/15/13	JP	07/11/13	OP67376	GEF4803
Run #2							

	Initial Weight	Final Volume
Run #1	15.9 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	36	9.3	ug/kg	
11104-28-2	Aroclor 1221	ND	36	21	ug/kg	
11141-16-5	Aroclor 1232	ND	36	18	ug/kg	
53469-21-9	Aroclor 1242	ND	36	11	ug/kg	
12672-29-6	Aroclor 1248	ND	36	11	ug/kg	
11097-69-1	Aroclor 1254	ND	36	17	ug/kg	
11096-82-5	Aroclor 1260	ND	36	12	ug/kg	
11100-14-4	Aroclor 1268	ND	36	10	ug/kg	
37324-23-5	Aroclor 1262	ND	36	11	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	60%		17-146%
877-09-8	Tetrachloro-m-xylene	63%		17-146%
2051-24-3	Decachlorobiphenyl	72%		12-155%
2051-24-3	Decachlorobiphenyl	71%		12-155%

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

Accutest Laboratories

Report of Analysis

Client Sample ID: SUST-B (5.0-5.5)
Lab Sample ID: JB41556-7A **Date Sampled:** 07/09/13
Matrix: SO - Soil **Date Received:** 07/09/13
Method: NJDEP EPH SW846 3546 **Percent Solids:** 88.2
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	3Y42802.D	1	07/15/13	GAD	07/11/13	OP67379	G3Y1375
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	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	73%		40-140%
321-60-8	2-Fluorobiphenyl	104%		40-140%
3386-33-2	1-Chlorooctadecane	84%		40-140%
580-13-2	2-Bromonaphthalene	44%		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

Client Sample ID: SUST-B (5.0-5.5)
Lab Sample ID: JB41556-7A
Matrix: SO - Soil
Date Sampled: 07/09/13
Date Received: 07/09/13
Percent Solids: 88.2
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	6870	59	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Antimony	< 2.4	2.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Arsenic	< 2.4	2.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Barium	58.5	24	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Beryllium	0.71	0.24	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Cadmium	< 0.59	0.59	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Calcium	< 590	590	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Chromium	84.4	1.2	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Cobalt	< 5.9	5.9	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Copper	4.0	3.0	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Iron	12500	59	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Lead	4.4	2.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Magnesium	1420	590	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Manganese	17.9	1.8	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Mercury	< 0.033	0.033	mg/kg	1	07/12/13	07/12/13	JW	SW846 7471B [1]	SW846 7471B [4]
Nickel	< 4.7	4.7	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Potassium	3330	1200	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Selenium	< 2.4	2.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Silver	< 0.59	0.59	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Sodium	< 1200	1200	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Thallium	< 1.2	1.2	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Vanadium	48.2	5.9	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]
Zinc	17.5	2.4	mg/kg	1	07/11/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [3]

(1) Instrument QC Batch: MA31640
(2) Instrument QC Batch: MA31708
(3) Prep QC Batch: MP73122
(4) Prep QC Batch: MP73144

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SUST-B (5.0-5.5)		
Lab Sample ID:	JB41556-7A	**Date Sampled:**	07/09/13
Matrix:	SO - Soil	**Date Received:**	07/09/13
		Percent Solids:	88.2
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	07/11/13 14:45	CV	SW846 9012 M/LACHAT

RL = Reporting Limit

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

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

PAGE 1 OF 1

FED-EX Tracking # | Bottle Order Control #
Accutest Quote # | Accutest Job # JB41556

Client / Reporting Information

Company Name: U.S. Army Fort Monmouth
Street Address: P.O. Box 148
City: Oceanport State: NJ Zip: 07757
Project Contact: Robert Yaukey E-mail: ryaukey@chemsw.com
Phone #: 732-380-7412 Fax #:
Sampler(s) Name(s): Robert Yaukey Phone #: 732-380-7412

Project Information

Project Name: CWATP
Street: Laboratory Road
City: Tinton Falls State: NJ
Project #: CWATP
Client Purchase Order #: DK6/2012-646
Project Manager: Wanda Green

Billing Information (if different from Report to)

Company Name: COS, LLC
Street Address: P.O. Box 148
City: Oceanport State: NJ Zip: 07757
Attention: Helene Sadanowitz

Requested Analysis (see TEST CODE sheet)

Full TCL/TAL+TCO
Hexavalent Chromium
ISM.1 EPH
% Moisture

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - 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

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Time	Sampled by	Matrix	# of bottles	Preserved: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	LAB USE ONLY
1	FFSGC-C (5.0-5.5)		07/09/13	09:00	RH	SO	4					1			3	B18
2	FFSGC-A (5.0-5.5)		07/09/13	09:30	RH	SO	4					1			3	1431
3	FFSGC-E (5.0-5.5)		07/09/13	10:00	RH	SO	4					1			3	4939
4	FFSGC-D (5.0-5.5)		07/09/13	10:30	RH	SO	4					1			3	
5	FFSGC-B (5.0-5.5)		07/09/13	11:00	RH	SO	4					1			3	
6	SUST-A (5.0-5.5)		07/09/13	11:15	RH	SO	4					1			3	
7	SUST-B (5.0-5.5)		07/09/13	11:20	RH	SO	4					1			3	

Turnaround Time (Business days)

- [x] 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:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULL T (Level 3+4)
- [x] 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

Comments / Special Instructions

• 3 encores 7-9-13 EG

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		07/04/13 14:35	1	2	7-9-13 1640	2
3	Relinquished by Sampler:	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Intact / Not intact	Preserved where applicable / On Ice / Cooler Temp. 5.8

1B

EG

JB41556A: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB41556 **Client:** _____ **Project:** _____

Date / Time Received: 7/9/2013 **Delivery Method:** _____ **Airbill #'s:** _____

Cooler Temps (Initial/Adjusted): #1: (5.8/5.8); 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 Preservatio	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:	☐		☐	☑

ACCUTEST LABORATORIES

Job Change Order: JB41556

Requested Date:	7/22/2013	**Received Date:**	7/9/2013
Account Name:	Fort Monmouth Environmental Te	**Due Date:**	7/23/2013
Project Description:	Fort Monmouth Env Testing Lab, Building 173, SEL	**Deliverable:**	FULT1
CSR:	michello	**TAT (Days):**	14

Sample #: JB41556-All

Dept:

Change:
Please relog for XXCRAR

Above Changes Per: Robert Youhas **Date:** 7/22/2013

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

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New Jersey ACCUTEST LABORATORIES

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: JB41954

Sampling Date: 07/12/13

Report to:

Fort Monmouth Environmental Testing Lab.

RYouhas@chenega.com

ATTN: Rob Youhas

Total number of pages in report: **12**

ACCREDITED IN ACCORDANCE WITH nelac

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.

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

Sections: 1 2 3 4 5

Table of Contents

Sample Summary

Fort Monmouth Environmental Testing Lab.

Job No: JB41954

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
JB41954-1	07/12/13	08:30	RY	07/12/13	SO	Soil	SUST-C (5.0-5.5)
JB41954-2	07/12/13	08:45	RY	07/12/13	SO	Soil	SUST-D (5.0-5.5)

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**	JB41954
Site:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, F	**Report Date**	7/24/2013 1:59:08 PM

On 07/12/2013, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 2.1 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB41954 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:** GN88306

- Sample(s) JB42410-15DUP were used as the QC samples for Redox Potential Vs H2.

Wet Chemistry By Method SM2540 G-97

Matrix: SO **Batch ID:** GN88327

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

Wet Chemistry By Method SW846 3060A/7196A

Matrix: SO **Batch ID:** GP73467

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB41954-2DUP, JB41954-2MS 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. Low post spike recovery (82.2_%) on this sample. Low pH adjusted post spike (67.3%). Good agreement between the sample and 1:5 dilution.
- GP73467-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:** GN88305

- Sample(s) JB42410-14DUP 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: JB41954
Account: Fort Monmouth Environmental Testing Lab.
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
Collected: 07/12/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB41954-1	**SUST-C (5.0-5.5)**					
Redox Potential Vs H2		389			mv	ASTM D1498-76M
pH		5.51			su	SW846 9045C,D
JB41954-2	**SUST-D (5.0-5.5)**					
Chromium, Hexavalent		1.7	0.47		mg/kg	SW846 3060A/7196A
Redox Potential Vs H2		379			mv	ASTM D1498-76M
pH		6.84			su	SW846 9045C,D

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SUST-C (5.0-5.5)		
Lab Sample ID:	JB41954-1	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
		Percent Solids:	83.1
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	< 0.48	0.48	mg/kg	1	07/23/13 11:41	NP	SW846 3060A/7196A
Moisture, Percent	16.9		%	1	07/18/13 16:15	PD	SM2540 G-97
Redox Potential Vs H2	389		mv	1	07/18/13 12:36	SA	ASTM D1498-76M
pH	5.51		su	1	07/18/13 11:54	SA	SW846 9045C,D

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SUST-D (5.0-5.5)		
Lab Sample ID:	JB41954-2	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
		Percent Solids:	85.9
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	1.7	0.47	mg/kg	1	07/23/13 11:38	NP	SW846 3060A/7196A
Moisture, Percent	14.1		%	1	07/18/13 16:15	PD	SM2540 G-97
Redox Potential Vs H2	379		mv	1	07/18/13 12:36	SA	ASTM D1498-76M
pH	6.84		su	1	07/18/13 11:54	SA	SW846 9045C,D

RL = Reporting Limit

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

SUL

CHAIN OF CUSTODY

PAGE 1 OF 1

ACCUTEST LABORATORIES

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 #: JB41954

Client / Reporting Information

Company Name: U.S. Army Fort Monmouth
Street Address: P.O. Box 148
City: Oceanport State: NJ Zip: 07757
Project Contact: Robert Youhas E-mail: rgyouhas@chmca.com
Phone #: 732-380-7412 Fax #:
Sampler(s) Name(s): Robert Youhas Phone #: 732-380-7412

Project Information

Project Name: CWATP
Street: Laboratory Road
City: Tinton Falls State: NJ
Project #: CWATP
Client Purchase Order #: DUG/2012-646
Project Manager: Wanda Green

Billing Information (if different from Report to)

Company Name: COS, LLC
Street Address: P.O. Box 148
City: Oceanport State: NJ Zip: 07757
Attention: Helene Sachowitz

Requested Analysis (see TEST CODE sheet)

Full TCL/TAL 30, Hexavalent Chromium, BNSEPH, pH, VOA+15, Lead, % Moisture

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - 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

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Preserved Bottles HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	LAB USE ONLY
-1	SUST-C (5.0-5.5)		07/12/13	08:30	RY	SO	4					1			3	D13
-2	SUST-D (5.0-5.5)		07/12/13	08:45	RY	SO	4					1			3	14R6
-3	FGS-B (6-6.5)		07/12/13	09:00	RY	SO	4					1			3	4070
-4	FGS-D (6-6.5)		07/12/13	09:30	RY	SO	4					1			3	
-5	FGS-E (6-6.5)		07/12/13	10:30	RY	SO	4					1			3	
-6	FGS-C (6-6.5)		07/12/13	10:50	RY	SO	4					1			3	

Turnaround Time (Business days)

- [x] 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:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULL1 (Level 3+4)
- [x] 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

Comments / Special Instructions

* 3 ENCORES 07/12/13

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1	Date Time: 07/12/13 13:35	Received By: 1	Relinquished By: 2	Date Time: 7/12 1620	Received By: 2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Intact / Not intact	Preserved where applicable / On Ice / Cooler Temp. 0° / 1 C

2A

P.6.

5.1 5

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB41954 **Client:** **Project:**

Date / Time Received: 7/12/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2.1/2.1); 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 Preservatio	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:	☐		☐	☑

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB41954: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES

Job Change Order: JB41954

Requested Date:	7/24/2013	**Received Date:**	7/12/2013
Account Name:	Fort Monmouth Environmental Te	**Due Date:**	7/26/2013
Project Description:	Fort Monmouth Env Testing Lab, Building 173, SEL	**Deliverable:**	FULT1
CSR:	kristinb	**TAT (Days):**	14

Sample #: JB41954-1, -2
Dept:

Change:
Please relog for XXCRAR

Sample #: JB41954-2
Dept:

Change:
Please relog MS/MSD for XXCRAR

SUST-D (5.0-5.5)

Above Changes Per: Client / Robert Youhas **Date:** 7/24/2013

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

Page 1 of 1

JB41954: Chain of Custody
Page 3 of 3

New Jersey ACCUTEST LABORATORIES

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: JB41954A

Sampling Date: 07/12/13

Report to:

Fort Monmouth Environmental Testing Lab.

RYouhas@chenega.com

ATTN: Rob Youhas

Total number of pages in report: **51**

ACCREDITED IN ACCORDANCE WITH nelac

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.

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

Sections: 1 2 3 4 5

Table of Contents

Sample Summary

Fort Monmouth Environmental Testing Lab.

Job No: JB41954A

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
JB41954-1A	07/12/13	08:30	RY	07/12/13	SO	Soil	SUST-C (5.0-5.5)
JB41954-2A	07/12/13	08:45	RY	07/12/13	SO	Soil	SUST-D (5.0-5.5)
JB41954-3	07/12/13	09:00	RY	07/12/13	SO	Soil	FGS-B (6-6.5)
JB41954-4	07/12/13	09:30	RY	07/12/13	SO	Soil	FGS-D (6-6.5)
JB41954-5	07/12/13	10:30	RY	07/12/13	SO	Soil	FGS-E (6-6.5)
JB41954-6	07/12/13	10:50	RY	07/12/13	SO	Soil	FGS-C (6-6.5)

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**	JB41954A
Site:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, F	**Report Date**	8/5/2013 10:59:15 AM

On 07/12/2013, 6 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 2.1 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB41954A 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:** V3V32

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB41950-10MS, JB41954-6DUP 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 for sample JB41954-6DUP. High RPD due to possible sample analyzed from different vials.

Matrix: SO **Batch ID:** VD8628

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB42344-6MS, JB42344-6MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dibromo-3-chloropropane are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- JB41954-1A: Dilution required due to matrix interference.

Extractables by GCMS By Method SW846 8270D

Matrix: SO **Batch ID:** OP67471

- All samples were extracted within the recommended method holding time.
- Sample(s) JB41954-1AMS, JB41954-1AMSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 2,4-Dimethylphenol, 2,4-Dinitrophenol, 2,4-Dinitrotoluene, 4-Chloro-3-methyl phenol, 4-Chlorophenyl phenyl ether, Acenaphthylene, Caprolactam, Hexachlorocyclopentadiene, Isophorone, N-Nitroso-di-n-propylamine, N-Nitrosodiphenylamine are outside control limits. Outside of in house control limits.
- Matrix Spike Duplicate Recovery(s) for 2,4-Dimethylphenol, 2,4-Dinitrotoluene, 4-Chloro-3-methyl phenol, Acenaphthylene, Isophorone, N-Nitrosodiphenylamine, 2,4-Dinitrophenol, 4,6-Dinitro-o-cresol, 4-Chlorophenyl phenyl ether, Caprolactam are outside control limits. Outside of in house control limits.
- RPD(s) for MSD for 2,4-Dinitrophenol, 3,3'-Dichlorobenzidine, 3-Nitroaniline, 4,6-Dinitro-o-cresol, 4-Chlorophenyl phenyl ether, Caprolactam, Hexachlorocyclopentadiene are outside control limits for sample OP67471-MSD. Analytical precision exceeds standard laboratory control limits.
- Sample(s) JB41954-1A have surrogates outside control limits. Nitrobenzene-d5: Outside control limits due to dilution.
- Sample(s) JB41954-1A have surrogates outside control limits. 2,4,6-Tribromophenol: Outside control limits due to matrix interference.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for Fluorene, Phenanthrene are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Extractables by GC By Method NJDEP EPH

Matrix: SO **Batch ID:** OP67442

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB40945-21AMS, JB40945-21AMSD, JB40960-2DUP were used as the QC samples indicated.
- Matrix Spike Duplicate Recovery(s) for C12-C16 Aliphatics are outside control limits. Outside of in house control limits
- RPD(s) for MSD for C12-C16 Aliphatics are outside control limits for sample OP67442-MSD. Outside of in house control limits.
- Sample(s) OP67442-MSD have surrogates outside control limits. 2-Bromonaphthalene: Outside of in house control limits.

Matrix: SO **Batch ID:** OP67669

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42678-14DUP, JB42866-6MS, JB42866-6MSD were used as the QC samples indicated.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for C21-C36 Aromatics, C21-C40 Aliphatics are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike/Matrix Spike Duplicate Recovery(s) for C10-C12 Aromatics, C12-C16 Aliphatics, C12-C16 Aromatics, C16-C21 Aliphatics, C16-C21 Aromatics, C9-C12 Aliphatics, Total Aliphatics, Total Aromatics, Total EPH are outside control limits. Outside control limits due to high level in sample relative to spike amount.
- Sample(s) OP67669-MS have surrogates outside control limits. 2-Bromonaphthalene: Outside control limits due to matrix interference.
- OP67669-BSD for C10-C12 Aromatics: Outside the QC limits.

Extractables by GC By Method SW846 8081B

Matrix: SO **Batch ID:** OP67472

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42052-26MS, JB42052-26MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8082A

Matrix: SO **Batch ID:** OP67473

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB41954-2AMS, JB41954-2AMSD were used as the QC samples indicated.

Metals By Method SW846 6010C

Matrix: SO **Batch ID:** MP73246

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB41954-1AMS, JB41954-1AMSD, JB41954-1APS, JB41954-1ASDL were used as the QC samples for metals.
- Matrix Spike Recovery(s) for Antimony, Iron are outside control limits. Spike recovery indicates possible matrix interference.
- Matrix Spike Duplicate Recovery(s) for Antimony, Iron, Potassium are outside control limits. Spike recovery indicates possible matrix interference.
- RPD(s) for Serial Dilution for Beryllium, Cadmium, Cobalt, Copper, Selenium, Silver, Sodium, Zinc are outside control limits for sample MP73246-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP73246-PS1 for Aluminum: Spike recovery indicates possible matrix interference.
- MP73246-PS1 for Antimony: Spike recovery indicates possible matrix interference.

Matrix: SO **Batch ID:** MP73247

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42052-21MS, JB42052-21MSD, JB42052-21SDL were used as the QC samples for metals.

Metals By Method SW846 7471B

Matrix: SO **Batch ID:** MP73235

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB42162-3MS, JB42162-3MSD were used as the QC samples for metals.
- RPD(s) for MSD for Mercury are outside control limits for sample MP73235-S2. Spike recovery indicates possible matrix interference.

Wet Chemistry By Method SM2540 G-97

Matrix: SO **Batch ID:** GN88490

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

Wet Chemistry By Method SW846 9012 M/LACHAT

Matrix: SO **Batch ID:** GP73353

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB41953-1DUP, JB41953-1MS 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: JB41954A
Account: Fort Monmouth Environmental Testing Lab.
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
Collected: 07/12/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB41954-1A	**SUST-C (5.0-5.5)**					
Isopropylbenzene [a]		28.7 J	310	4.5	ug/kg	SW846 8260B
Toluene [a]		136	61	6.4	ug/kg	SW846 8260B
Total TIC, Volatile		16170 J			ug/kg	
Acenaphthene		3210	37	11	ug/kg	SW846 8270D
Benzo(a)pyrene		41.2	37	11	ug/kg	SW846 8270D
Benzo(b)fluoranthene		51.4	37	12	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		31.6 J	37	14	ug/kg	SW846 8270D
Benzo(k)fluoranthene		15.7 J	37	14	ug/kg	SW846 8270D
Fluoranthene		419	37	16	ug/kg	SW846 8270D
Fluorene		4940	370	120	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		25.4 J	37	13	ug/kg	SW846 8270D
Phenanthrene		11300	370	170	ug/kg	SW846 8270D
Pyrene		1020	37	14	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		77900 J			ug/kg	
Total Alkanes		7100 J			ug/kg	
C10-C12 Aromatics		45.6	6.2	0.19	mg/kg	NJDEP EPH
C12-C16 Aromatics		273	6.2	0.26	mg/kg	NJDEP EPH
C16-C21 Aromatics		862	6.2	0.39	mg/kg	NJDEP EPH
C21-C36 Aromatics		131	6.2	0.62	mg/kg	NJDEP EPH
Total Aromatics		1310	6.2	0.19	mg/kg	NJDEP EPH
C9-C12 Aliphatics		445	6.2	0.17	mg/kg	NJDEP EPH
C12-C16 Aliphatics		1700	6.2	0.26	mg/kg	NJDEP EPH
C16-C21 Aliphatics		1120	6.2	0.23	mg/kg	NJDEP EPH
C21-C40 Aliphatics		260	6.2	0.68	mg/kg	NJDEP EPH
Total Aliphatics		3520	6.2	0.17	mg/kg	NJDEP EPH
Total EPH		4830	6.2	0.17	mg/kg	NJDEP EPH
4,4'-DDD		10.5	0.74	0.40	ug/kg	SW846 8081B
4,4'-DDE		17.7	0.74	0.30	ug/kg	SW846 8081B
4,4'-DDT		4.7	0.74	0.36	ug/kg	SW846 8081B
Aroclor 1260		61.3	37	12	ug/kg	SW846 8082A
Aluminum		4820	58		mg/kg	SW846 6010C
Arsenic		4.4	2.3		mg/kg	SW846 6010C
Barium		73.9	23		mg/kg	SW846 6010C
Beryllium		0.50	0.23		mg/kg	SW846 6010C
Chromium		43.2	1.2		mg/kg	SW846 6010C
Iron		14400	58		mg/kg	SW846 6010C
Lead		8.1	2.3		mg/kg	SW846 6010C
Magnesium		978	580		mg/kg	SW846 6010C
Manganese		35.2	1.7		mg/kg	SW846 6010C
Mercury		0.040	0.039		mg/kg	SW846 7471B
Potassium		2150	1200		mg/kg	SW846 6010C
Silver		1.0	0.58		mg/kg	SW846 6010C
Vanadium		28.7	5.8		mg/kg	SW846 6010C

Summary of Hits

Job Number: JB41954A
Account: Fort Monmouth Environmental Testing Lab.
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
Collected: 07/12/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Zinc		23.9	2.3		mg/kg	SW846 6010C
JB41954-2A	**SUST-D (5.0-5.5)**					
Acetone		81.3	9.7	1.6	ug/kg	SW846 8260B
2-Butanone (MEK)		10.3	9.7	2.3	ug/kg	SW846 8260B
Carbon disulfide		0.53 J	4.9	0.11	ug/kg	SW846 8260B
Methylene chloride		2.9 J	4.9	1.2	ug/kg	SW846 8260B
Toluene		0.26 J	0.97	0.10	ug/kg	SW846 8260B
Total TIC, Volatile		13.1 J			ug/kg	
Benzo(a)anthracene		25.5 J	35	11	ug/kg	SW846 8270D
Benzo(a)pyrene		23.0 J	35	11	ug/kg	SW846 8270D
Benzo(b)fluoranthene		28.0 J	35	12	ug/kg	SW846 8270D
Benzo(g,h,i)perylene		24.4 J	35	13	ug/kg	SW846 8270D
Chrysene		32.1 J	35	12	ug/kg	SW846 8270D
Fluoranthene		56.4	35	16	ug/kg	SW846 8270D
Indeno(1,2,3-cd)pyrene		17.0 J	35	12	ug/kg	SW846 8270D
Phenanthrene		44.2	35	16	ug/kg	SW846 8270D
Pyrene		52.1	35	14	ug/kg	SW846 8270D
Total TIC, Semi-Volatile		4250 J			ug/kg	
alpha-Chlordane		2.2	0.75	0.28	ug/kg	SW846 8081B
gamma-Chlordane		2.5	0.75	0.51	ug/kg	SW846 8081B
4,4'-DDD		196	7.5	4.1	ug/kg	SW846 8081B
4,4'-DDE		138	7.5	3.0	ug/kg	SW846 8081B
4,4'-DDT		158	7.5	3.7	ug/kg	SW846 8081B
Heptachlor epoxide		3.9	0.75	0.28	ug/kg	SW846 8081B
Aroclor 1260		241	37	12	ug/kg	SW846 8082A
Aluminum		6290	60		mg/kg	SW846 6010C
Arsenic		39.0	2.4		mg/kg	SW846 6010C
Barium		66.7	24		mg/kg	SW846 6010C
Beryllium		0.91	0.24		mg/kg	SW846 6010C
Calcium		2130	600		mg/kg	SW846 6010C
Chromium		78.9	1.2		mg/kg	SW846 6010C
Copper		15.7	3.0		mg/kg	SW846 6010C
Iron		24200	60		mg/kg	SW846 6010C
Lead		33.6	2.4		mg/kg	SW846 6010C
Magnesium		2280	600		mg/kg	SW846 6010C
Manganese		23.0	1.8		mg/kg	SW846 6010C
Mercury		0.096	0.037		mg/kg	SW846 7471B
Potassium		6130	1200		mg/kg	SW846 6010C
Silver		1.4	0.60		mg/kg	SW846 6010C
Vanadium		28.8	6.0		mg/kg	SW846 6010C
Zinc		48.9	2.4		mg/kg	SW846 6010C

Summary of Hits

Job Number: JB41954A
Account: Fort Monmouth Environmental Testing Lab.
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
Collected: 07/12/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB41954-3	**FGS-B (6-6.5)**					
Acetone		51.9	11	1.9	ug/kg	SW846 8260B
2-Butanone (MEK)		12.2	11	2.6	ug/kg	SW846 8260B
Methylene chloride		3.8 J	5.5	1.4	ug/kg	SW846 8260B
Toluene		0.81 J	1.1	0.12	ug/kg	SW846 8260B
Total TIC, Volatile		26.8 J			ug/kg	
Lead		10.9	2.5		mg/kg	SW846 6010C
JB41954-4	**FGS-D (6-6.5)**					
Acetone		103	11	1.8	ug/kg	SW846 8260B
2-Butanone (MEK)		21.9	11	2.6	ug/kg	SW846 8260B
Carbon disulfide		0.72 J	5.4	0.13	ug/kg	SW846 8260B
Methylene chloride		3.8 J	5.4	1.4	ug/kg	SW846 8260B
Toluene		0.27 J	1.1	0.11	ug/kg	SW846 8260B
Total TIC, Volatile		18.5 J			ug/kg	
Lead		3.6	2.3		mg/kg	SW846 6010C
JB41954-5	**FGS-E (6-6.5)**					
Methylene chloride		3.2 J	5.4	1.4	ug/kg	SW846 8260B
Toluene		0.24 J	1.1	0.11	ug/kg	SW846 8260B
Total TIC, Volatile		61.1 J			ug/kg	
Lead		5.3	2.6		mg/kg	SW846 6010C
JB41954-6	**FGS-C (6-6.5)**					
Total TIC, Volatile		15 J			ug/kg	
Lead		8.3	2.4		mg/kg	SW846 6010C

(a) Dilution required due to matrix interference.

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SUST-C (5.0-5.5)		
Lab Sample ID:	JB41954-1A	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	83.1
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 [a]	D211278.D	1	07/20/13	CM	07/13/13 08:00	n/a	VD8628
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.9 g	5.0 ml	100 ul
Run #2			

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	610	100	ug/kg	
71-43-2	Benzene	ND	61	7.3	ug/kg	
74-97-5	Bromochloromethane	ND	310	16	ug/kg	
75-27-4	Bromodichloromethane	ND	310	6.4	ug/kg	
75-25-2	Bromoform	ND	310	9.2	ug/kg	
74-83-9	Bromomethane	ND	310	17	ug/kg	
78-93-3	2-Butanone (MEK)	ND	610	150	ug/kg	
75-15-0	Carbon disulfide	ND	310	7.2	ug/kg	
56-23-5	Carbon tetrachloride	ND	310	8.1	ug/kg	
108-90-7	Chlorobenzene	ND	310	6.6	ug/kg	
75-00-3	Chloroethane	ND	310	14	ug/kg	
67-66-3	Chloroform	ND	310	5.1	ug/kg	
74-87-3	Chloromethane	ND	310	11	ug/kg	
110-82-7	Cyclohexane	ND	310	7.6	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	610	54	ug/kg	
124-48-1	Dibromochloromethane	ND	310	10	ug/kg	
106-93-4	1,2-Dibromoethane	ND	61	7.8	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	310	12	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	310	11	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	310	11	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	310	14	ug/kg	
75-34-3	1,1-Dichloroethane	ND	310	8.4	ug/kg	
107-06-2	1,2-Dichloroethane	ND	61	8.3	ug/kg	
75-35-4	1,1-Dichloroethene	ND	310	16	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	310	11	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	310	15	ug/kg	
78-87-5	1,2-Dichloropropane	ND	310	9.4	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	310	8.5	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	310	9.5	ug/kg	
123-91-1	1,4-Dioxane	ND	7600	3600	ug/kg	
100-41-4	Ethylbenzene	ND	61	16	ug/kg	
76-13-1	Freon 113	ND	310	26	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: SUST-C (5.0-5.5)
Lab Sample ID: JB41954-1A **Date Sampled:** 07/12/13
Matrix: SO - Soil **Date Received:** 07/12/13
Method: SW846 8260B SW846 5035 **Percent Solids:** 83.1
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	310	38	ug/kg	
98-82-8	Isopropylbenzene	28.7	310	4.5	ug/kg	J
79-20-9	Methyl Acetate	ND	310	160	ug/kg	
108-87-2	Methylcyclohexane	ND	310	10	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	61	14	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	310	46	ug/kg	
75-09-2	Methylene chloride	ND	310	78	ug/kg	
100-42-5	Styrene	ND	310	5.6	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	310	8.1	ug/kg	
127-18-4	Tetrachloroethene	ND	310	11	ug/kg	
108-88-3	Toluene	136	61	6.4	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	310	10	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	310	8.5	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	310	6.5	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	310	11	ug/kg	
79-01-6	Trichloroethene	ND	310	11	ug/kg	
75-69-4	Trichlorofluoromethane	ND	310	18	ug/kg	
75-01-4	Vinyl chloride	ND	310	8.8	ug/kg	
	m,p-Xylene	ND	61	11	ug/kg	
95-47-6	o-Xylene	ND	61	8.5	ug/kg	
1330-20-7	Xylene (total)	ND	61	8.5	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		65-131%
17060-07-0	1,2-Dichloroethane-D4	91%		70-121%
2037-26-5	Toluene-D8	101%		80-128%
460-00-4	4-Bromofluorobenzene	90%		67-131%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
496-11-7	Indane	17.37	820	ug/kg	JN
	Naphthalene decahydro-	17.51	970	ug/kg	J
	C4 alkyl benzene	17.78	1400	ug/kg	J
	C4 alkyl benzene	18.23	1100	ug/kg	J
	Naphthalene decahydro-methyl	18.45	1100	ug/kg	J
	1H-indene-dihydro-methyl	18.85	1500	ug/kg	J
	dihydro-dimethylindene + C5 alkylbenzene	19.18	1400	ug/kg	J
	unknown	19.52	950	ug/kg	J
	Naphthalene tetrahydro-methyl	19.71	1500	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:	SUST-C (5.0-5.5)		
Lab Sample ID:	JB41954-1A	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	83.1
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

VOA TCL List (SOM0 1.1)

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	1H-Indene-dihydro-dimethyl	20.00	960	ug/kg	J
	1H-Indene-dihydro-dimethyl	20.25	780	ug/kg	J
	1H-Indene-dihydro-dimethyl	20.53	830	ug/kg	J
	1H-Indene-dihydro-trimethyl	20.69	700	ug/kg	J
	Naphthalene tetrahydro-dimethyl	20.92	1300	ug/kg	J
	Naphthalene methyl	21.32	860	ug/kg	J
	Total TIC, Volatile		16170	ug/kg	J
	Total Alkanes		0	ug/kg	

(a) Dilution required due to matrix interference.

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:	SUST-C (5.0-5.5)		
Lab Sample ID:	JB41954-1A	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	83.1
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	Z82522.D	1	07/19/13	KH	07/16/13	OP67471	EZ4172
Run #2	Z82676.D	10	07/23/13	AD	07/16/13	OP67471	EZ4178

	Initial Weight	Final Volume
Run #1	32.6 g	1.0 ml
Run #2	32.6 g	1.0 ml

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	37	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	59	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	62	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	740	45	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	740	45	ug/kg	
95-48-7	2-Methylphenol	ND	74	42	ug/kg	
	3&4-Methylphenol	ND	74	47	ug/kg	
88-75-5	2-Nitrophenol	ND	180	39	ug/kg	
100-02-7	4-Nitrophenol	ND	370	62	ug/kg	
87-86-5	Pentachlorophenol	ND	370	63	ug/kg	
108-95-2	Phenol	ND	74	39	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	38	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	43	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	35	ug/kg	
83-32-9	Acenaphthene	3210	37	11	ug/kg	
208-96-8	Acenaphthylene	ND	37	12	ug/kg	
98-86-2	Acetophenone	ND	180	6.5	ug/kg	
120-12-7	Anthracene	ND	37	13	ug/kg	
1912-24-9	Atrazine	ND	180	7.3	ug/kg	
56-55-3	Benzo(a)anthracene	ND	37	12	ug/kg	
50-32-8	Benzo(a)pyrene	41.2	37	11	ug/kg	
205-99-2	Benzo(b)fluoranthene	51.4	37	12	ug/kg	
191-24-2	Benzo(g,h,i)perylene	31.6	37	14	ug/kg	J
207-08-9	Benzo(k)fluoranthene	15.7	37	14	ug/kg	J
101-55-3	4-Bromophenyl phenyl ether	ND	74	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	74	21	ug/kg	
92-52-4	1,1'-Biphenyl	ND	74	4.3	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.5	ug/kg	
91-58-7	2-Chloronaphthalene	ND	74	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	12	ug/kg	
86-74-8	Carbazole	ND	74	17	ug/kg	

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: SUST-C (5.0-5.5)
Lab Sample ID: JB41954-1A **Date Sampled:** 07/12/13
Matrix: SO - Soil **Date Received:** 07/12/13
Method: SW846 8270D SW846 3550C **Percent Solids:** 83.1
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	74	12	ug/kg	
218-01-9	Chrysene	ND	37	12	ug/kg	
111-91-1	bis(2-Chloroethoxy)methane	ND	74	15	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	74	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	74	11	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	74	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	74	16	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	74	14	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	9.4	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	37	13	ug/kg	
132-64-9	Dibenzofuran	ND	74	11	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	74	8.2	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	74	18	ug/kg	
84-66-2	Diethyl phthalate	ND	74	13	ug/kg	
131-11-3	Dimethyl phthalate	ND	74	13	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	74	33	ug/kg	
206-44-0	Fluoranthene	419	37	16	ug/kg	
86-73-7	Fluorene	4940 [a]	370	120	ug/kg	
118-74-1	Hexachlorobenzene	ND	74	12	ug/kg	
87-68-3	Hexachlorobutadiene	ND	37	10	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	370	38	ug/kg	
67-72-1	Hexachloroethane	ND	180	10	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	25.4	37	13	ug/kg	J
78-59-1	Isophorone	ND	74	9.9	ug/kg	
91-57-6	2-Methylnaphthalene	ND	74	21	ug/kg	
88-74-4	2-Nitroaniline	ND	180	16	ug/kg	
99-09-2	3-Nitroaniline	ND	180	15	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	ND	37	10	ug/kg	
98-95-3	Nitrobenzene	ND	74	11	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	74	9.0	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	22	ug/kg	
85-01-8	Phenanthrene	11300 [a]	370	170	ug/kg	
129-00-0	Pyrene	1020	37	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	88%	86%	13-110%
4165-62-2	Phenol-d5	78%	79%	15-110%

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: SUST-C (5.0-5.5)
Lab Sample ID: JB41954-1A **Date Sampled:** 07/12/13
Matrix: SO - Soil **Date Received:** 07/12/13
Method: SW846 8270D SW846 3550C **Percent Solids:** 83.1
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	196% [b]	61%	20-123%
4165-60-0	Nitrobenzene-d5	78%	116% [c]	10-110%
321-60-8	2-Fluorobiphenyl	62%	91%	17-110%
1718-51-0	Terphenyl-d14	102%	100%	30-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	C4 alkyl benzene	6.46	2000	ug/kg	J
	unknown	6.58	2200	ug/kg	J
	Benzene ethenyl dimethyl	6.71	2800	ug/kg	J
	unknown	7.26	4300	ug/kg	J
	unknown	7.41	4400	ug/kg	J
	unknown	7.71	3800	ug/kg	J
90-12-0	Naphthalene, 1-methyl-	7.90	7600	ug/kg	JN
	unknown	7.93	2100	ug/kg	J
	unknown	7.98	3500	ug/kg	J
	unknown	8.28	2100	ug/kg	J
	unknown	8.40	2600	ug/kg	J
	Naphthalene dimethyl	8.68	5600	ug/kg	J
	unknown	8.71	3700	ug/kg	J
	unknown	8.74	3100	ug/kg	J
	Naphthalene dimethyl	8.83	3000	ug/kg	J
	Naphthalene trimethyl	9.26	3200	ug/kg	J
	Naphthalene trimethyl	9.42	5200	ug/kg	J
	Naphthalene trimethyl	9.48	3800	ug/kg	J
	Naphthalene trimethyl	9.58	3200	ug/kg	J
	Naphthalene trimethyl	9.63	2000	ug/kg	J
	Naphthalene trimethyl	9.83	2000	ug/kg	J
	unknown	10.07	3400	ug/kg	J
	unknown	10.45	2300	ug/kg	J
	Total TIC, Semi-Volatile		77900	ug/kg	J
	Total Alkanes		7100	ug/kg	J

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

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

Report of Analysis

Client Sample ID: SUST-C (5.0-5.5)
Lab Sample ID: JB41954-1A **Date Sampled:** 07/12/13
Matrix: SO - Soil **Date Received:** 07/12/13
Method: SW846 8081B SW846 3546 **Percent Solids:** 83.1
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	3G77193.D	1	07/19/13	VDT	07/16/13	OP67472	G3G2651
Run #2							

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

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.74	0.34	ug/kg	
319-84-6	alpha-BHC	ND	0.74	0.22	ug/kg	
319-85-7	beta-BHC	ND	0.74	0.46	ug/kg	
319-86-8	delta-BHC	ND	0.74	0.36	ug/kg	
58-89-9	gamma-BHC (Lindane)	ND	0.74	0.36	ug/kg	
5103-71-9	alpha-Chlordane	ND	0.74	0.27	ug/kg	
5103-74-2	gamma-Chlordane	ND	0.74	0.51	ug/kg	
60-57-1	Dieldrin	ND	0.74	0.29	ug/kg	
72-54-8	4,4'-DDD	10.5	0.74	0.40	ug/kg	
72-55-9	4,4'-DDE	17.7	0.74	0.30	ug/kg	
50-29-3	4,4'-DDT	4.7	0.74	0.36	ug/kg	
72-20-8	Endrin	ND	0.74	0.24	ug/kg	
1031-07-8	Endosulfan sulfate	ND	0.74	0.32	ug/kg	
7421-93-4	Endrin aldehyde	ND	0.74	0.39	ug/kg	
959-98-8	Endosulfan-I	ND	0.74	0.28	ug/kg	
33213-65-9	Endosulfan-II	ND	0.74	0.44	ug/kg	
76-44-8	Heptachlor	ND	0.74	0.36	ug/kg	
1024-57-3	Heptachlor epoxide	ND	0.74	0.28	ug/kg	
72-43-5	Methoxychlor	ND	1.5	0.72	ug/kg	
53494-70-5	Endrin ketone	ND	0.74	0.30	ug/kg	
8001-35-2	Toxaphene	ND	18	9.3	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	50%		10-147%
877-09-8	Tetrachloro-m-xylene	45%		10-147%
2051-24-3	Decachlorobiphenyl	60%		10-154%
2051-24-3	Decachlorobiphenyl	64%		10-154%

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:	SUST-C (5.0-5.5)		
Lab Sample ID:	JB41954-1A	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
Method:	SW846 8082A SW846 3546	**Percent Solids:**	83.1
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	2G83731.D	1	07/17/13	RK	07/16/13	OP67473	G2G2718
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	9.6	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	61.3	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	64%		14-139%
877-09-8	Tetrachloro-m-xylene	52%		14-139%
2051-24-3	Decachlorobiphenyl	81%		10-155%
2051-24-3	Decachlorobiphenyl	87%		10-155%

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: SUST-C (5.0-5.5)
Lab Sample ID: JB41954-1A **Date Sampled:** 07/12/13
Matrix: SO - Soil **Date Received:** 07/12/13
Method: NJDEP EPH SW846 3546 **Percent Solids:** 83.1
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	3Y42876.D	1	07/18/13	GAD	07/15/13	OP67442	G3Y1378
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	45.6	6.2	0.19	mg/kg	
	C12-C16 Aromatics	273	6.2	0.26	mg/kg	
	C16-C21 Aromatics	862	6.2	0.39	mg/kg	
	C21-C36 Aromatics	131	6.2	0.62	mg/kg	
	Total Aromatics	1310	6.2	0.19	mg/kg	
	C9-C12 Aliphatics	445	6.2	0.17	mg/kg	
	C12-C16 Aliphatics	1700	6.2	0.26	mg/kg	
	C16-C21 Aliphatics	1120	6.2	0.23	mg/kg	
	C21-C40 Aliphatics	260	6.2	0.68	mg/kg	
	Total Aliphatics	3520	6.2	0.17	mg/kg	
	Total EPH	4830	6.2	0.17	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	89%		40-140%
321-60-8	2-Fluorobiphenyl	132%		40-140%
3386-33-2	1-Chlorooctadecane	112%		40-140%
580-13-2	2-Bromonaphthalene	108%		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

Client Sample ID: SUST-C (5.0-5.5)
Lab Sample ID: JB41954-1A
Matrix: SO - Soil
Date Sampled: 07/12/13
Date Received: 07/12/13
Percent Solids: 83.1
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	4820	58	mg/kg	1	07/17/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [5]
Antimony	< 2.3	2.3	mg/kg	1	07/17/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [5]
Arsenic	4.4	2.3	mg/kg	1	07/17/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [5]
Barium	73.9	23	mg/kg	1	07/17/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [5]
Beryllium	0.50	0.23	mg/kg	1	07/17/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [5]
Cadmium	< 0.58	0.58	mg/kg	1	07/17/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [5]
Calcium	< 580	580	mg/kg	1	07/17/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [5]
Chromium	43.2	1.2	mg/kg	1	07/17/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [5]
Cobalt	< 5.8	5.8	mg/kg	1	07/17/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [5]
Copper	< 2.9	2.9	mg/kg	1	07/17/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [5]
Iron	14400	58	mg/kg	1	07/17/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [5]
Lead	8.1	2.3	mg/kg	1	07/17/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [5]
Magnesium	978	580	mg/kg	1	07/17/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [5]
Manganese	35.2	1.7	mg/kg	1	07/17/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [5]
Mercury	0.040	0.039	mg/kg	1	07/16/13	07/16/13	AA	SW846 7471B [1]	SW846 7471B [4]
Nickel	< 4.6	4.6	mg/kg	1	07/17/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [5]
Potassium	2150	1200	mg/kg	1	07/17/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [5]
Selenium	< 2.3	2.3	mg/kg	1	07/17/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [5]
Silver	1.0	0.58	mg/kg	1	07/17/13	07/23/13	ND	SW846 6010C [3]	SW846 3050B [5]
Sodium	< 1200	1200	mg/kg	1	07/17/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [5]
Thallium	< 1.2	1.2	mg/kg	1	07/17/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [5]
Vanadium	28.7	5.8	mg/kg	1	07/17/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [5]
Zinc	23.9	2.3	mg/kg	1	07/17/13	07/23/13	GT	SW846 6010C [2]	SW846 3050B [5]

(1) Instrument QC Batch: MA31675
(2) Instrument QC Batch: MA31708
(3) Instrument QC Batch: MA31718
(4) Prep QC Batch: MP73235
(5) Prep QC Batch: MP73246

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SUST-C (5.0-5.5)		
Lab Sample ID:	JB41954-1A	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
		Percent Solids:	83.1
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	07/17/13 15:26	CV	SW846 9012 M/LACHAT

RL = Reporting Limit

Report of Analysis

Client Sample ID: SUST-D (5.0-5.5)
Lab Sample ID: JB41954-2A **Date Sampled:** 07/12/13
Matrix: SO - Soil **Date Received:** 07/12/13
Method: SW846 8260B SW846 5035 **Percent Solids:** 85.9
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	3V932.D	1	07/18/13	TDN	07/13/13 08:00	n/a	V3V32
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	81.3	9.7	1.6	ug/kg	
71-43-2	Benzene	ND	0.97	0.12	ug/kg	
74-97-5	Bromochloromethane	ND	4.9	0.26	ug/kg	
75-27-4	Bromodichloromethane	ND	4.9	0.10	ug/kg	
75-25-2	Bromoform	ND	4.9	0.15	ug/kg	
74-83-9	Bromomethane	ND	4.9	0.26	ug/kg	
78-93-3	2-Butanone (MEK)	10.3	9.7	2.3	ug/kg	
75-15-0	Carbon disulfide	0.53	4.9	0.11	ug/kg	J
56-23-5	Carbon tetrachloride	ND	4.9	0.13	ug/kg	
108-90-7	Chlorobenzene	ND	4.9	0.10	ug/kg	
75-00-3	Chloroethane	ND	4.9	0.22	ug/kg	
67-66-3	Chloroform	ND	4.9	0.080	ug/kg	
74-87-3	Chloromethane	ND	4.9	0.18	ug/kg	
110-82-7	Cyclohexane	ND	4.9	0.12	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	9.7	0.86	ug/kg	
124-48-1	Dibromochloromethane	ND	4.9	0.16	ug/kg	
106-93-4	1,2-Dibromoethane	ND	0.97	0.12	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	4.9	0.18	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	4.9	0.18	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	4.9	0.17	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	4.9	0.22	ug/kg	
75-34-3	1,1-Dichloroethane	ND	4.9	0.13	ug/kg	
107-06-2	1,2-Dichloroethane	ND	0.97	0.13	ug/kg	
75-35-4	1,1-Dichloroethene	ND	4.9	0.25	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	4.9	0.18	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	4.9	0.23	ug/kg	
78-87-5	1,2-Dichloropropane	ND	4.9	0.15	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	4.9	0.13	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	4.9	0.15	ug/kg	
123-91-1	1,4-Dioxane	ND	120	58	ug/kg	
100-41-4	Ethylbenzene	ND	0.97	0.26	ug/kg	
76-13-1	Freon 113	ND	4.9	0.42	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:	SUST-D (5.0-5.5)		
Lab Sample ID:	JB41954-2A	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	85.9
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	4.9	0.60	ug/kg	
98-82-8	Isopropylbenzene	ND	4.9	0.072	ug/kg	
79-20-9	Methyl Acetate	ND	4.9	2.5	ug/kg	
108-87-2	Methylcyclohexane	ND	4.9	0.16	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	0.97	0.23	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	4.9	0.73	ug/kg	
75-09-2	Methylene chloride	2.9	4.9	1.2	ug/kg	J
100-42-5	Styrene	ND	4.9	0.089	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	4.9	0.13	ug/kg	
127-18-4	Tetrachloroethene	ND	4.9	0.17	ug/kg	
108-88-3	Toluene	0.26	0.97	0.10	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	4.9	0.16	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	4.9	0.13	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	4.9	0.10	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	4.9	0.17	ug/kg	
79-01-6	Trichloroethene	ND	4.9	0.17	ug/kg	
75-69-4	Trichlorofluoromethane	ND	4.9	0.29	ug/kg	
75-01-4	Vinyl chloride	ND	4.9	0.14	ug/kg	
	m,p-Xylene	ND	0.97	0.17	ug/kg	
95-47-6	o-Xylene	ND	0.97	0.13	ug/kg	
1330-20-7	Xylene (total)	ND	0.97	0.13	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		65-131%
17060-07-0	1,2-Dichloroethane-D4	91%		70-121%
2037-26-5	Toluene-D8	91%		80-128%
460-00-4	4-Bromofluorobenzene	83%		67-131%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	3.14	250	ug/kg	JN
	unknown	9.50	6	ug/kg	J
	unknown	10.64	7.1	ug/kg	J
	Total TIC, Volatile		13.1	ug/kg	J
	Total Alkanes		0	ug/kg	

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
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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: SUST-D (5.0-5.5)
Lab Sample ID: JB41954-2A
Matrix: SO - Soil
Method: SW846 8270D SW846 3550C
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Date Sampled: 07/12/13
Date Received: 07/12/13
Percent Solids: 85.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z82523.D	1	07/19/13	KH	07/16/13	OP67471	EZ4172
Run #2							

	Initial Weight	Final Volume
Run #1	33.1 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	36	ug/kg	
59-50-7	4-Chloro-3-methyl phenol	ND	180	35	ug/kg	
120-83-2	2,4-Dichlorophenol	ND	180	57	ug/kg	
105-67-9	2,4-Dimethylphenol	ND	180	59	ug/kg	
51-28-5	2,4-Dinitrophenol	ND	700	43	ug/kg	
534-52-1	4,6-Dinitro-o-cresol	ND	700	43	ug/kg	
95-48-7	2-Methylphenol	ND	70	40	ug/kg	
	3&4-Methylphenol	ND	70	45	ug/kg	
88-75-5	2-Nitrophenol	ND	180	37	ug/kg	
100-02-7	4-Nitrophenol	ND	350	59	ug/kg	
87-86-5	Pentachlorophenol	ND	350	60	ug/kg	
108-95-2	Phenol	ND	70	37	ug/kg	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	180	36	ug/kg	
95-95-4	2,4,5-Trichlorophenol	ND	180	41	ug/kg	
88-06-2	2,4,6-Trichlorophenol	ND	180	33	ug/kg	
83-32-9	Acenaphthene	ND	35	10	ug/kg	
208-96-8	Acenaphthylene	ND	35	11	ug/kg	
98-86-2	Acetophenone	ND	180	6.2	ug/kg	
120-12-7	Anthracene	ND	35	12	ug/kg	
1912-24-9	Atrazine	ND	180	6.9	ug/kg	
56-55-3	Benzo(a)anthracene	25.5	35	11	ug/kg	J
50-32-8	Benzo(a)pyrene	23.0	35	11	ug/kg	J
205-99-2	Benzo(b)fluoranthene	28.0	35	12	ug/kg	J
191-24-2	Benzo(g,h,i)perylene	24.4	35	13	ug/kg	J
207-08-9	Benzo(k)fluoranthene	ND	35	13	ug/kg	
101-55-3	4-Bromophenyl phenyl ether	ND	70	13	ug/kg	
85-68-7	Butyl benzyl phthalate	ND	70	20	ug/kg	
92-52-4	1,1'-Biphenyl	ND	70	4.1	ug/kg	
100-52-7	Benzaldehyde	ND	180	8.1	ug/kg	
91-58-7	2-Chloronaphthalene	ND	70	11	ug/kg	
106-47-8	4-Chloroaniline	ND	180	11	ug/kg	
86-74-8	Carbazole	ND	70	16	ug/kg	

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: SUST-D (5.0-5.5)
Lab Sample ID: JB41954-2A **Date Sampled:** 07/12/13
Matrix: SO - Soil **Date Received:** 07/12/13
Method: SW846 8270D SW846 3550C **Percent Solids:** 85.9
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	70	11	ug/kg	
218-01-9	Chrysene	32.1	35	12	ug/kg	J
111-91-1	bis(2-Chloroethoxy)methane	ND	70	14	ug/kg	
111-44-4	bis(2-Chloroethyl)ether	ND	70	11	ug/kg	
108-60-1	bis(2-Chloroisopropyl)ether	ND	70	10	ug/kg	
7005-72-3	4-Chlorophenyl phenyl ether	ND	70	11	ug/kg	
121-14-2	2,4-Dinitrotoluene	ND	70	15	ug/kg	
606-20-2	2,6-Dinitrotoluene	ND	70	13	ug/kg	
91-94-1	3,3'-Dichlorobenzidine	ND	180	8.9	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	35	12	ug/kg	
132-64-9	Dibenzofuran	ND	70	10	ug/kg	
84-74-2	Di-n-butyl phthalate	ND	70	7.8	ug/kg	
117-84-0	Di-n-octyl phthalate	ND	70	17	ug/kg	
84-66-2	Diethyl phthalate	ND	70	12	ug/kg	
131-11-3	Dimethyl phthalate	ND	70	12	ug/kg	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	70	31	ug/kg	
206-44-0	Fluoranthene	56.4	35	16	ug/kg	
86-73-7	Fluorene	ND	35	12	ug/kg	
118-74-1	Hexachlorobenzene	ND	70	11	ug/kg	
87-68-3	Hexachlorobutadiene	ND	35	9.8	ug/kg	
77-47-4	Hexachlorocyclopentadiene	ND	350	36	ug/kg	
67-72-1	Hexachloroethane	ND	180	9.8	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	17.0	35	12	ug/kg	J
78-59-1	Isophorone	ND	70	9.5	ug/kg	
91-57-6	2-Methylnaphthalene	ND	70	20	ug/kg	
88-74-4	2-Nitroaniline	ND	180	15	ug/kg	
99-09-2	3-Nitroaniline	ND	180	14	ug/kg	
100-01-6	4-Nitroaniline	ND	180	14	ug/kg	
91-20-3	Naphthalene	ND	35	9.6	ug/kg	
98-95-3	Nitrobenzene	ND	70	10	ug/kg	
621-64-7	N-Nitroso-di-n-propylamine	ND	70	8.6	ug/kg	
86-30-6	N-Nitrosodiphenylamine	ND	180	21	ug/kg	
85-01-8	Phenanthrene	44.2	35	16	ug/kg	
129-00-0	Pyrene	52.1	35	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	75%		13-110%
4165-62-2	Phenol-d5	68%		15-110%

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:	SUST-D (5.0-5.5)		
Lab Sample ID:	JB41954-2A	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
Method:	SW846 8270D SW846 3550C	**Percent Solids:**	85.9
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	81%		20-123%
4165-60-0	Nitrobenzene-d5	76%		10-110%
321-60-8	2-Fluorobiphenyl	77%		17-110%
1718-51-0	Terphenyl-d14	80%		30-124%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	4.02	160	ug/kg	J
	system artifact	4.09	420	ug/kg	J
	system artifact	4.18	310	ug/kg	J
	system artifact/aldol-condensation	4.32	9300	ug/kg	J
	unknown	4.42	160	ug/kg	J
	unknown	5.15	1300	ug/kg	J
	unknown	5.28	970	ug/kg	J
	unknown	5.37	260	ug/kg	J
	unknown	6.04	490	ug/kg	J
	system artifact	8.64	190	ug/kg	J
	unknown	10.36	140	ug/kg	J
10544-50-0	Cyclic octaatomic sulfur	13.18	760	ug/kg	JN
	unknown	14.65	650	ug/kg	JB
	unknown	18.15	170	ug/kg	J
	Total TIC, Semi-Volatile		4250	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

Client Sample ID: SUST-D (5.0-5.5)
Lab Sample ID: JB41954-2A **Date Sampled:** 07/12/13
Matrix: SO - Soil **Date Received:** 07/12/13
Method: SW846 8081B SW846 3546 **Percent Solids:** 85.9
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	3G77192.D	1	07/19/13	VDT	07/16/13	OP67472	G3G2651
Run #2	3G77194.D	10	07/19/13	VDT	07/16/13	OP67472	G3G2651

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2	15.6 g	10.0 ml

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	0.46	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	2.2	0.75	0.28	ug/kg	
5103-74-2	gamma-Chlordane	2.5	0.75	0.51	ug/kg	
60-57-1	Dieldrin	ND	0.75	0.29	ug/kg	
72-54-8	4,4'-DDD	196 [a]	7.5	4.1	ug/kg	
72-55-9	4,4'-DDE	138 [a]	7.5	3.0	ug/kg	
50-29-3	4,4'-DDT	158 [a]	7.5	3.7	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	3.9	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	50%	52%	10-147%
877-09-8	Tetrachloro-m-xylene	47%	52%	10-147%
2051-24-3	Decachlorobiphenyl	48%	45%	10-154%
2051-24-3	Decachlorobiphenyl	53%	53%	10-154%

(a) Result is from Run# 2

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

Report of Analysis

Client Sample ID:	SUST-D (5.0-5.5)		
Lab Sample ID:	JB41954-2A	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
Method:	SW846 8082A SW846 3546	**Percent Solids:**	85.9
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	2G83732.D	1	07/17/13	RK	07/16/13	OP67473	G2G2718
Run #2							

	Initial Weight	Final Volume
Run #1	15.6 g	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	37	9.7	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	241	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	66%		14-139%
877-09-8	Tetrachloro-m-xylene	61%		14-139%
2051-24-3	Decachlorobiphenyl	74%		10-155%
2051-24-3	Decachlorobiphenyl	82%		10-155%

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: SUST-D (5.0-5.5)
Lab Sample ID: JB41954-2A
Matrix: SO - Soil
Method: NJDEP EPH SW846 3546
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Date Sampled: 07/12/13
Date Received: 07/12/13
Percent Solids: 85.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	6Y9726.D	1	07/27/13	LC	07/24/13	OP67669	G6Y389
Run #2							

	Initial Weight	Final Volume
Run #1	15.2 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	88%		40-140%
321-60-8	2-Fluorobiphenyl	91%		40-140%
3386-33-2	1-Chlorooctadecane	78%		40-140%
580-13-2	2-Bromonaphthalene	68%		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

Client Sample ID: SUST-D (5.0-5.5)
Lab Sample ID: JB41954-2A
Matrix: SO - Soil
Date Sampled: 07/12/13
Date Received: 07/12/13
Percent Solids: 85.9
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	6290	60	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]
Antimony	< 2.4	2.4	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]
Arsenic	39.0	2.4	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]
Barium	66.7	24	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]
Beryllium	0.91	0.24	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]
Cadmium	< 0.60	0.60	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]
Calcium	2130	600	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]
Chromium	78.9	1.2	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]
Cobalt	< 6.0	6.0	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]
Copper	15.7	3.0	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]
Iron	24200	60	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]
Lead	33.6	2.4	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]
Magnesium	2280	600	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]
Manganese	23.0	1.8	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]
Mercury	0.096	0.037	mg/kg	1	07/16/13	07/16/13	AA	SW846 7471B [1]	SW846 7471B [3]
Nickel	< 4.8	4.8	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]
Potassium	6130	1200	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]
Selenium	< 2.4	2.4	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]
Silver	1.4	0.60	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]
Sodium	< 1200	1200	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]
Thallium	< 1.2	1.2	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]
Vanadium	28.8	6.0	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]
Zinc	48.9	2.4	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [2]	SW846 3050B [4]

(1) Instrument QC Batch: MA31675
(2) Instrument QC Batch: MA31739
(3) Prep QC Batch: MP73235
(4) Prep QC Batch: MP73246

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SUST-D (5.0-5.5)		
Lab Sample ID:	JB41954-2A	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
		Percent Solids:	85.9
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	07/17/13 15:27	CV	SW846 9012 M/LACHAT

RL = Reporting Limit

Report of Analysis

Client Sample ID: FGS-B (6-6.5)
Lab Sample ID: JB41954-3 **Date Sampled:** 07/12/13
Matrix: SO - Soil **Date Received:** 07/12/13
Method: SW846 8260B SW846 5035 **Percent Solids:** 78.7
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	3V933.D	1	07/18/13	TDN	07/13/13 08:00	n/a	V3V32
Run #2							

	Initial Weight
Run #1	5.8 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	51.9	11	1.9	ug/kg	
71-43-2	Benzene	ND	1.1	0.13	ug/kg	
74-97-5	Bromochloromethane	ND	5.5	0.29	ug/kg	
75-27-4	Bromodichloromethane	ND	5.5	0.12	ug/kg	
75-25-2	Bromoform	ND	5.5	0.17	ug/kg	
74-83-9	Bromomethane	ND	5.5	0.30	ug/kg	
78-93-3	2-Butanone (MEK)	12.2	11	2.6	ug/kg	
75-15-0	Carbon disulfide	ND	5.5	0.13	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.5	0.15	ug/kg	
108-90-7	Chlorobenzene	ND	5.5	0.12	ug/kg	
75-00-3	Chloroethane	ND	5.5	0.25	ug/kg	
67-66-3	Chloroform	ND	5.5	0.090	ug/kg	
74-87-3	Chloromethane	ND	5.5	0.20	ug/kg	
110-82-7	Cyclohexane	ND	5.5	0.14	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	11	0.97	ug/kg	
124-48-1	Dibromochloromethane	ND	5.5	0.18	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.1	0.14	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.5	0.21	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.5	0.20	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.5	0.19	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.5	0.25	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.5	0.15	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.15	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.5	0.28	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.5	0.20	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.5	0.26	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.5	0.17	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.5	0.15	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.5	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	ND	5.5	0.47	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-B (6-6.5)
Lab Sample ID: JB41954-3 **Date Sampled:** 07/12/13
Matrix: SO - Soil **Date Received:** 07/12/13
Method: SW846 8260B SW846 5035 **Percent Solids:** 78.7
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	5.5	0.68	ug/kg	
98-82-8	Isopropylbenzene	ND	5.5	0.081	ug/kg	
79-20-9	Methyl Acetate	ND	5.5	2.8	ug/kg	
108-87-2	Methylcyclohexane	ND	5.5	0.19	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	5.5	0.82	ug/kg	
75-09-2	Methylene chloride	3.8	5.5	1.4	ug/kg	J
100-42-5	Styrene	ND	5.5	0.10	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.5	0.14	ug/kg	
127-18-4	Tetrachloroethene	ND	5.5	0.19	ug/kg	
108-88-3	Toluene	0.81	1.1	0.12	ug/kg	J
87-61-6	1,2,3-Trichlorobenzene	ND	5.5	0.18	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.5	0.15	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.5	0.12	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.5	0.19	ug/kg	
79-01-6	Trichloroethene	ND	5.5	0.19	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.5	0.33	ug/kg	
75-01-4	Vinyl chloride	ND	5.5	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	92%		65-131%
17060-07-0	1,2-Dichloroethane-D4	90%		70-121%
2037-26-5	Toluene-D8	92%		80-128%
460-00-4	4-Bromofluorobenzene	83%		67-131%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	3.14	770	ug/kg	JNB
	unknown	9.49	7	ug/kg	J
	unknown	10.22	6.8	ug/kg	J
	unknown	10.63	13	ug/kg	J
	Total TIC, Volatile		26.8	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

Client Sample ID:	FGS-B (6-6.5)		
Lab Sample ID:	JB41954-3	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
		Percent Solids:	78.7
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
Lead	10.9	2.5	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA31744
(2) Prep QC Batch: MP73247

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FGS-B (6-6.5)		
Lab Sample ID:	JB41954-3	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
		Percent Solids:	78.7
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	21.3		%	1	07/22/13 11:05	BM	SM2540 G-97

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FGS-D (6-6.5)		
Lab Sample ID:	JB41954-4	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	87.9
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	3V934.D	1	07/18/13	TDN	07/13/13 08:00	n/a	V3V32
Run #2							

	Initial Weight
Run #1	5.3 g
Run #2	

VOA TCL List (SOM0 1.1)

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	103	11	1.8	ug/kg	
71-43-2	Benzene	ND	1.1	0.13	ug/kg	
74-97-5	Bromochloromethane	ND	5.4	0.28	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	0.29	ug/kg	
78-93-3	2-Butanone (MEK)	21.9	11	2.6	ug/kg	
75-15-0	Carbon disulfide	0.72	5.4	0.13	ug/kg	J
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	0.24	ug/kg	
67-66-3	Chloroform	ND	5.4	0.089	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	0.96	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	0.20	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	0.24	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.4	0.15	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.14	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	130	64	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.28	ug/kg	
76-13-1	Freon 113	ND	5.4	0.46	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-D (6-6.5)		
Lab Sample ID:	JB41954-4	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	87.9
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	0.67	ug/kg	
98-82-8	Isopropylbenzene	ND	5.4	0.080	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	0.25	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.4	0.81	ug/kg	
75-09-2	Methylene chloride	3.8	5.4	1.4	ug/kg	J
100-42-5	Styrene	ND	5.4	0.098	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.4	0.14	ug/kg	
127-18-4	Tetrachloroethene	ND	5.4	0.18	ug/kg	
108-88-3	Toluene	0.27	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	0.11	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	0.15	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	91%		65-131%
17060-07-0	1,2-Dichloroethane-D4	91%		70-121%
2037-26-5	Toluene-D8	91%		80-128%
460-00-4	4-Bromofluorobenzene	83%		67-131%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	3.14	680	ug/kg	JNB
	unknown	10.65	10	ug/kg	J
	unknown	11.22	8.5	ug/kg	J
	Total TIC, Volatile		18.5	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

Client Sample ID:	FGS-D (6-6.5)		
Lab Sample ID:	JB41954-4	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
		Percent Solids:	87.9
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	3.6	2.3	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA31744
(2) Prep QC Batch: MP73247

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FGS-D (6-6.5)		
Lab Sample ID:	JB41954-4	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
		Percent Solids:	87.9
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	12.1		%	1	07/22/13 11:05	BM	SM2540 G-97

RL = Reporting Limit

Report of Analysis

Client Sample ID: FGS-E (6-6.5)
Lab Sample ID: JB41954-5 **Date Sampled:** 07/12/13
Matrix: SO - Soil **Date Received:** 07/12/13
Method: SW846 8260B SW846 5035 **Percent Solids:** 80.4
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	3V935.D	1	07/18/13	TDN	07/13/13 08:00	n/a	V3V32
Run #2							

	Initial Weight
Run #1	5.8 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	0.28	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	0.29	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	0.24	ug/kg	
67-66-3	Chloroform	ND	5.4	0.089	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	0.95	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	0.20	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	0.24	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.4	0.15	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.1	0.14	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	130	64	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.28	ug/kg	
76-13-1	Freon 113	ND	5.4	0.46	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-E (6-6.5)
Lab Sample ID: JB41954-5 **Date Sampled:** 07/12/13
Matrix: SO - Soil **Date Received:** 07/12/13
Method: SW846 8260B SW846 5035 **Percent Solids:** 80.4
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	0.67	ug/kg	
98-82-8	Isopropylbenzene	ND	5.4	0.080	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	0.25	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.4	0.81	ug/kg	
75-09-2	Methylene chloride	3.2	5.4	1.4	ug/kg	J
100-42-5	Styrene	ND	5.4	0.098	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.4	0.14	ug/kg	
127-18-4	Tetrachloroethene	ND	5.4	0.18	ug/kg	
108-88-3	Toluene	0.24	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	0.11	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	0.15	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	91%		65-131%
17060-07-0	1,2-Dichloroethane-D4	90%		70-121%
2037-26-5	Toluene-D8	92%		80-128%
460-00-4	4-Bromofluorobenzene	84%		67-131%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	3.13	440	ug/kg	JNB
	unknown	7.65	5.8	ug/kg	J
	unknown	8.70	14	ug/kg	J
	unknown	9.04	5.9	ug/kg	J
	unknown	9.51	17	ug/kg	J
	unknown	10.21	7.4	ug/kg	J
	unknown	10.63	11	ug/kg	J
	Total TIC, Volatile		61.1	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

Client Sample ID:	FGS-E (6-6.5)		
Lab Sample ID:	JB41954-5	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
		Percent Solids:	80.4
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
Lead	5.3	2.6	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA31747
(2) Prep QC Batch: MP73247

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FGS-E (6-6.5)		
Lab Sample ID:	JB41954-5	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
		Percent Solids:	80.4
Project:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	19.6		%	1	07/22/13 11:05	BM	SM2540 G-97

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FGS-C (6-6.5)		
Lab Sample ID:	JB41954-6	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	84.8
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	3V925.D	1	07/18/13	TDN	07/13/13 08:00	n/a	V3V32
Run #2							

	Initial Weight
Run #1	5.9 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	5.0	0.26	ug/kg	
75-27-4	Bromodichloromethane	ND	5.0	0.10	ug/kg	
75-25-2	Bromoform	ND	5.0	0.15	ug/kg	
74-83-9	Bromomethane	ND	5.0	0.27	ug/kg	
78-93-3	2-Butanone (MEK)	ND	10	2.4	ug/kg	
75-15-0	Carbon disulfide	ND	5.0	0.12	ug/kg	
56-23-5	Carbon tetrachloride	ND	5.0	0.13	ug/kg	
108-90-7	Chlorobenzene	ND	5.0	0.11	ug/kg	
75-00-3	Chloroethane	ND	5.0	0.23	ug/kg	
67-66-3	Chloroform	ND	5.0	0.083	ug/kg	
74-87-3	Chloromethane	ND	5.0	0.19	ug/kg	
110-82-7	Cyclohexane	ND	5.0	0.12	ug/kg	
96-12-8	1,2-Dibromo-3-chloropropane	ND	10	0.89	ug/kg	
124-48-1	Dibromochloromethane	ND	5.0	0.16	ug/kg	
106-93-4	1,2-Dibromoethane	ND	1.0	0.13	ug/kg	
95-50-1	1,2-Dichlorobenzene	ND	5.0	0.19	ug/kg	
541-73-1	1,3-Dichlorobenzene	ND	5.0	0.19	ug/kg	
106-46-7	1,4-Dichlorobenzene	ND	5.0	0.18	ug/kg	
75-71-8	Dichlorodifluoromethane	ND	5.0	0.23	ug/kg	
75-34-3	1,1-Dichloroethane	ND	5.0	0.14	ug/kg	
107-06-2	1,2-Dichloroethane	ND	1.0	0.13	ug/kg	
75-35-4	1,1-Dichloroethene	ND	5.0	0.26	ug/kg	
156-59-2	cis-1,2-Dichloroethene	ND	5.0	0.18	ug/kg	
156-60-5	trans-1,2-Dichloroethene	ND	5.0	0.24	ug/kg	
78-87-5	1,2-Dichloropropane	ND	5.0	0.15	ug/kg	
10061-01-5	cis-1,3-Dichloropropene	ND	5.0	0.14	ug/kg	
10061-02-6	trans-1,3-Dichloropropene	ND	5.0	0.15	ug/kg	
123-91-1	1,4-Dioxane	ND	120	59	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.26	ug/kg	
76-13-1	Freon 113	ND	5.0	0.43	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-C (6-6.5)		
Lab Sample ID:	JB41954-6	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
Method:	SW846 8260B SW846 5035	**Percent Solids:**	84.8
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	0.62	ug/kg	
98-82-8	Isopropylbenzene	ND	5.0	0.074	ug/kg	
79-20-9	Methyl Acetate	ND	5.0	2.6	ug/kg	
108-87-2	Methylcyclohexane	ND	5.0	0.17	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	0.23	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	0.75	ug/kg	
75-09-2	Methylene chloride	ND	5.0	1.3	ug/kg	
100-42-5	Styrene	ND	5.0	0.092	ug/kg	
79-34-5	1,1,2,2-Tetrachloroethane	ND	5.0	0.13	ug/kg	
127-18-4	Tetrachloroethene	ND	5.0	0.17	ug/kg	
108-88-3	Toluene	ND	1.0	0.10	ug/kg	
87-61-6	1,2,3-Trichlorobenzene	ND	5.0	0.16	ug/kg	
120-82-1	1,2,4-Trichlorobenzene	ND	5.0	0.14	ug/kg	
71-55-6	1,1,1-Trichloroethane	ND	5.0	0.11	ug/kg	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.17	ug/kg	
79-01-6	Trichloroethene	ND	5.0	0.17	ug/kg	
75-69-4	Trichlorofluoromethane	ND	5.0	0.30	ug/kg	
75-01-4	Vinyl chloride	ND	5.0	0.14	ug/kg	
	m,p-Xylene	ND	1.0	0.17	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	89%		65-131%
17060-07-0	1,2-Dichloroethane-D4	85%		70-121%
2037-26-5	Toluene-D8	92%		80-128%
460-00-4	4-Bromofluorobenzene	83%		67-131%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
124-38-9	Carbon dioxide	3.14	690	ug/kg	JNB
	unknown	9.49	8.8	ug/kg	J
	unknown	10.63	6.2	ug/kg	J
	Total TIC, Volatile		15	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

Client Sample ID:	FGS-C (6-6.5)		
Lab Sample ID:	JB41954-6	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
		Percent Solids:	84.8
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	8.3	2.4	mg/kg	1	07/17/13	07/26/13	ND	SW846 6010C [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA31747
(2) Prep QC Batch: MP73247

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FGS-C (6-6.5)		
Lab Sample ID:	JB41954-6	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
		Percent Solids:	84.8
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	15.2		%	1	07/22/13 11:05	BM	SM2540 G-97

RL = Reporting Limit

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

SLC

CHAIN OF CUSTODY

PAGE 1 OF 1

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 # JB41954

Client / Reporting Information

Company Name: U.S. Army Fort Monmouth
Street Address: P.O. Box 148
City: Oceanport State: NJ Zip: 07757
Project Contact: Robert Youhas E-mail: rgyouhas@chmca.com
Phone #: 732-380-7412 Fax #:
Sampler(s) Name(s): Robert Youhas Phone #: 732-380-7412

Project Information

Project Name: CWATP
Street: Laboratory Road
City: Tinton Falls State: NJ
Project #: CWATP
Client Purchase Order #: DUG/2012-646
Project Manager: Irando Green

Billing Information (if different from Report to)

Company Name: COS, LLC
Street Address: P.O. Box 148
City: Oceanport State: NJ Zip: 07757
Attention: Helene Sachnowitz

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; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB-Field Blank; EB-Equipment Blank; RB- Rinse Blank; TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Full TCL/TAL+30	Hexavalent Chromium	BNS/EPH	pH	VOA+15	Lead	% Moisture	LAB USE ONLY
-1	SUST-C (5.0-5.5)		07/12/13	08:30	RY	SO	4					1			3	✓	✓	✓	✓			✓	D13
-2	SUST-D (5.0-5.5)		07/12/13	08:45	RY	SO	4					1			3	✓	✓	✓	✓			✓	14R6
-3	FGS-B (6-6.5)		07/12/13	09:00	RY	SO	4					1			3					✓	✓	✓	4070
-4	FGS-D (6-6.5)		07/12/13	09:30	RY	SO	4					1			3					✓	✓	✓	
-5	FGS-E (6-6.5)		07/12/13	10:30	RY	SO	4					1			3					✓	✓	✓	
-6	FGS-C (6-6.5)		07/12/13	10:50	RY	SO	4					1			3					✓	✓	✓	

Turnaround Time (Business days)

- [x] 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:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULL1 (Level 3+4)
- [x] 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

Comments / Special Instructions

• 3 ENCORES 07/12/13

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1	Date Time: 07/12/13 13:35	Received By: 1	Relinquished By: 2	Date Time: 7/12 1620	Received By: 2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	[ ] Intact [ ] Not Intact	Preserved where applicable [ ] On Ice [x] Cooler Temp. 0° / 1 C

2A

P.G.

5.1 5

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB41954 **Client:** **Project:**

Date / Time Received: 7/12/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2.1/2.1); 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 Preservatio	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:	☐		☐	☑

ACCUTEST LABORATORIES

Job Change Order: JB41954

Requested Date:	7/24/2013	**Received Date:**	7/12/2013
Account Name:	Fort Monmouth Environmental Te	**Due Date:**	7/26/2013
Project Description:	Fort Monmouth Env Testing Lab, Building 173, SEL	**Deliverable:**	FULT1
CSR:	kristinb	**TAT (Days):**	14

Sample #: JB41954-1, -2
Dept:

Change:
Please relog for XXCRAR

Sample #: JB41954-2
Dept:

Change:
Please relog MS/MSD for XXCRAR

SUST-D (5.0-5.5)

Above Changes Per: Client / Robert Youhas **Date:** 7/24/2013

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

Page 1 of 1

New Jersey ACCUTEST LABORATORIES

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: JB41954R

Sampling Date: 07/12/13

Report to:

Fort Monmouth Environmental Testing Lab.

RYouhas@chenega.com

ATTN: Rob Youhas

Total number of pages in report: **12**

ACCREDITED IN ACCORDANCE WITH nelac

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.

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

Sections: 1 2 3 4 5

Table of Contents

Sample Summary

Fort Monmouth Environmental Testing Lab.

Job No: JB41954R

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	Matrix Type	Client Sample ID
JB41954-1R	07/12/13	08:30	RY	07/12/13	SO	Soil	SUST-C (5.0-5.5)
JB41954-2R	07/12/13	08:45	RY	07/12/13	SO	Soil	SUST-D (5.0-5.5)
JB41954-2RD	07/12/13	08:45	RY	07/12/13	SO	Soil Dup/MSD	SUST-D (5.0-5.5)
JB41954-2RS	07/12/13	08:45	RY	07/12/13	SO	Soil Matrix Spike	SUST-D (5.0-5.5)

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**	JB41954R
Site:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, F	**Report Date**	8/6/2013 10:50:30 AM

On 07/12/2013, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 2.1 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB41954R 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:** GP73631

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB41954-2RDUP, JB41954-2RMS 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 (87.4%) on this sample.
- RPD(s) for Duplicate for Chromium, Hexavalent are outside control limits for sample GP73631-D1. High RPD due to possible sample nonhomogeneity.
- GP73631-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: JB41954R
Account: Fort Monmouth Environmental Testing Lab.
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
Collected: 07/12/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB41954-1R	**SUST-C (5.0-5.5)**					
Chromium, Hexavalent		0.75	0.48		mg/kg	SW846 3060A/7196A
JB41954-2R	**SUST-D (5.0-5.5)**					
Chromium, Hexavalent		1.6	0.47		mg/kg	SW846 3060A/7196A

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SUST-C (5.0-5.5)		
Lab Sample ID:	JB41954-1R	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
		Percent Solids:	83.1
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	0.75	0.48	mg/kg	1	08/02/13 10:13	RI	SW846 3060A/7196A

RL = Reporting Limit

Report of Analysis

Client Sample ID:	SUST-D (5.0-5.5)		
Lab Sample ID:	JB41954-2R	**Date Sampled:**	07/12/13
Matrix:	SO - Soil	**Date Received:**	07/12/13
		Percent Solids:	85.9
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	1.6	0.47	mg/kg	1	08/02/13 10:12	RI	SW846 3060A/7196A

RL = Reporting Limit

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

SLC

CHAIN OF CUSTODY

PAGE 1 OF 1

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 # JB41954

Client / Reporting Information

Company Name: U.S. Army Fort Monmouth
Street Address: P.O. Box 148
City: Oceanport State: NJ Zip: 07757
Project Contact: Robert Youhas E-mail: rgyouhas@chmca.com
Phone #: 732-380-7412 Fax #:
Sampler(s) Name(s): Robert Youhas Phone #: 732-380-7412

Project Information

Project Name: CWATP
Street: Laboratory Road
City: Tinton Falls State: NJ
Project #: CWATP
Client Purchase Order #: DUG/2012-646
Project Manager: Irando Green

Billing Information (if different from Report to)

Company Name: COS, LLC
Street Address: P.O. Box 148
City: Oceanport State: NJ Zip: 07757
Attention: Helene Sackowitz

Requested Analysis (see TEST CODE sheet)

Full TCL/TAL+30 Hexavalent Chromium BNSEPH pH VOA+15 Lead % Moisture

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - 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

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	LAB USE ONLY
-1	SUST-C (5.0-5.5)		07/12/13	08:30	RY	SO	4					1			3	D13
-2	SUST-D (5.0-5.5)		07/12/13	08:45	RY	SO	4					1			3	14R6
-3	FGS-B (6-6.5)		07/12/13	09:00	RY	SO	4					1			3	4070
-4	FGS-D (6-6.5)		07/12/13	09:30	RY	SO	4					1			3	
-5	FGS-E (6-6.5)		07/12/13	10:30	RY	SO	4					1			3	
-6	FGS-C (6-6.5)		07/12/13	10:50	RY	SO	4					1			3	

Turnaround Time (Business days)

- [x] 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:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULL1 (Level 3+4)
- [x] 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

Comments / Special Instructions

* 3 ENCORES 07/12/13

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1	Date Time: 07/12/13 13:35	Received By: 1	Relinquished By: 2	Date Time: 7/12 1620	Received By: 2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal #	Intact / Not intact	Preserved where applicable / On Ice / Cooler Temp. 0° / 1 C

2A

P.6.

5.1 5

JB41954R: Chain of Custody
Page 1 of 3

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB41954 **Client:** **Project:**

Date / Time Received: 7/12/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (2.1/2.1); 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 Preservatio	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:	☐		☐	☑

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB41954R: Chain of Custody
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ACCUTEST LABORATORIES

Job Change Order: JB41954

Requested Date:	7/24/2013	**Received Date:**	7/12/2013
Account Name:	Fort Monmouth Environmental Te	**Due Date:**	7/26/2013
Project Description:	Fort Monmouth Env Testing Lab, Building 173, SEL	**Deliverable:**	FULT1
CSR:	kristinb	**TAT (Days):**	14

Sample #: JB41954-1, -2
Dept:

Change:
Please relog for XXCRAR

Sample #: JB41954-2
Dept:

Change:
Please relog MS/MSD for XXCRAR

SUST-D (5.0-5.5)

Above Changes Per: Client / Robert Youhas **Date:** 7/24/2013

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

Page 1 of 1

JB41954R: Chain of Custody
Page 3 of 3

New Jersey ACCUTEST LABORATORIES

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**

ACCREDITED IN ACCORDANCE WITH nelac

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.

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

Sections: 1 2 3 4 5

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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 Date	Time	By	Received	Matrix Code	Type	Client Sample ID
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.

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SSSC-B-GW		
Lab Sample ID:	JB42423-1	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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	

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:	SSSC-B-GW		
Lab Sample ID:	JB42423-1	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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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E = Indicates value exceeds calibration range
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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-GW		
Lab Sample ID:	JB42423-1	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
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	3P22392.D	1	07/25/13	KH	07/19/13	OP67569	E3P983
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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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SSSC-B-GW		
Lab Sample ID:	JB42423-1	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
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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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:	SSSC-B-GW		
Lab Sample ID:	JB42423-1	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
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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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SSSC-B-GW		
Lab Sample ID:	JB42423-1	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
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%

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

Client Sample ID:	SSSC-B-GW		
Lab Sample ID:	JB42423-1	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
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%

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:	SSSC-B-GW		
Lab Sample ID:	JB42423-1	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	NJDEP EPH SW846 3510C	**Percent Solids:**	n/a
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%

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: SSSC-B-GW
Lab Sample ID: JB42423-1
Matrix: AQ - Ground Water
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

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		
Lab Sample ID:	JB42423-1	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
		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

Client Sample ID:	SSSC-E-GW		
Lab Sample ID:	JB42423-2	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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	

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:	SSSC-E-GW		
Lab Sample ID:	JB42423-2	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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	

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:	SSSC-E-GW		
Lab Sample ID:	JB42423-2	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
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	3P22393.D	1	07/25/13	KH	07/19/13	OP67569	E3P983
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	

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:	SSSC-E-GW		
Lab Sample ID:	JB42423-2	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
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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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

Client Sample ID: SSSC-E-GW
Lab Sample ID: JB42423-2 **Date Sampled:** 07/17/13
Matrix: AQ - Ground Water **Date Received:** 07/17/13
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
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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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:	SSSC-E-GW		
Lab Sample ID:	JB42423-2	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
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%

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:	SSSC-E-GW		
Lab Sample ID:	JB42423-2	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
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
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:	SSSC-E-GW		
Lab Sample ID:	JB42423-2	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	NJDEP EPH SW846 3510C	**Percent Solids:**	n/a
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%

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: SSSC-E-GW
Lab Sample ID: JB42423-2
Matrix: AQ - Ground Water
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

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		
Lab Sample ID:	JB42423-2	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
		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

Client Sample ID:	SSSC-A-GW		
Lab Sample ID:	JB42423-3	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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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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:	SSSC-A-GW		
Lab Sample ID:	JB42423-3	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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	

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

Client Sample ID:	SSSC-A-GW		
Lab Sample ID:	JB42423-3	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
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	3P22394.D	1	07/25/13	KH	07/19/13	OP67569	E3P983
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	

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

Client Sample ID:	SSSC-A-GW		
Lab Sample ID:	JB42423-3	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
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	

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

Client Sample ID: SSSC-A-GW
Lab Sample ID: JB42423-3 **Date Sampled:** 07/17/13
Matrix: AQ - Ground Water **Date Received:** 07/17/13
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
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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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SSSC-A-GW		
Lab Sample ID:	JB42423-3	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
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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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SSSC-A-GW		
Lab Sample ID:	JB42423-3	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
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
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:	SSSC-A-GW		
Lab Sample ID:	JB42423-3	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	NJDEP EPH SW846 3510C	**Percent Solids:**	n/a
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
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: SSSC-A-GW
Lab Sample ID: JB42423-3
Matrix: AQ - Ground Water
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

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		
Lab Sample ID:	JB42423-3	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
		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

Client Sample ID:	FFSGC-A-GW		
Lab Sample ID:	JB42423-4	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FFSGC-A-GW		
Lab Sample ID:	JB42423-4	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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	

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:	FFSGC-A-GW		
Lab Sample ID:	JB42423-4	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
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	3P22395.D	1	07/25/13	KH	07/19/13	OP67569	E3P983
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	

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:	FFSGC-A-GW		
Lab Sample ID:	JB42423-4	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
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	

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:	FFSGC-A-GW		
Lab Sample ID:	JB42423-4	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
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	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%

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

Client Sample ID:	FFSGC-A-GW		
Lab Sample ID:	JB42423-4	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
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

Client Sample ID:	FFSGC-A-GW		
Lab Sample ID:	JB42423-4	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
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

Client Sample ID:	FFSGC-A-GW		
Lab Sample ID:	JB42423-4	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
Method:	NJDEP EPH SW846 3510C	**Percent Solids:**	n/a
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

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		
Lab Sample ID:	JB42423-4	**Date Sampled:**	07/17/13
Matrix:	AQ - Ground Water	**Date Received:**	07/17/13
		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

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

GW

CHAIN OF CUSTODY

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

PAGE 1 OF 1 E

FED-EX Tracking # | Bottle Order Control #

Accutest Quote # | Accutest Job # JB42423

Client / Reporting Information

Company Name: U.S. Atmy Fort Monmouth
Street Address: P.O. Box 148
City: Oceanport State: NJ Zip: 07757
Project Contact: Robert Yoakas E-mail: ryoakas@chemwaste.com
Phone #: 732-380-7412 Fax #:
Sampler(s) Name(s): Robert Yoakas Phone #: 732-380-7412

Project Information

Project Name: CWTP
Street: Laboratory Road
City: Tinton Falls State: NJ
Project #: CWTP
Client Purchase Order #: DU6/2012-646
Project Manager: Wanda Green

Billing Information (if different from Report to)

Company Name: COS, LLC
Street Address: P.O. Box 148
City: Oceanport State: NJ Zip: 07757
Attention: Helene Sackowitz

Requested Analysis (see TEST CODE sheet)

Full TCL/TAL+30 | Hexavalent Chromium | BNS E PH | 8 1-1

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - 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

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	LAB USE ONLY
-1	SSSC-B-GW		07/17/13	08:30	RY	GW	13	5	1	1		6				B28
-2	SSSC-E-GW		07/17/13	09:30	RY	GW	13	5	1	1		6				A20
-3	SSSC-A-GW		07/17/13	10.00	RY	GW	13	5	1	1		6				C45
-4	FFSGC-A-GW		07/17/13	10:30	RY	GW	13	5	1	1		6				B3
																986

PH - 5.34 (AA)
PH - 6.02
PH - 6.24
PH - 6.07

Turnaround Time (Business days)

- [ ] Std. 15 Business Days
- [x] 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

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [x] 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

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1		07/17/13 13:53	1	2 7-17-13	1740	2
3	Relinquished by Sampler:	Date Time:	3 Received By:	4 Relinquished By:	Date Time:	4 Received By:
5	Relinquished by:	Date Time:	5 Received By:	Custody Seal #	Intact / Not intact	Preserved where applicable: On Ice: Cooler Temp. 5.1 5.4

2A

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 Preservatio	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:	☐		☐	☑

New Jersey ACCUTEST LABORATORIES

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: JB43221

Sampling Date: 07/26/13

Report to:

Fort Monmouth Environmental Testing Lab.

RYouhas@chenega.com

ATTN: Rob Youhas

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

ACCREDITED IN ACCORDANCE WITH nelac

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.

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

Sections: 1 2 3 4 5

Table of Contents

Sample Summary

Fort Monmouth Environmental Testing Lab.

Job No: JB43221

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
JB43221-1	07/26/13	09:00	RY	07/26/13	AQ	Ground Water	FFSGC-B-GW
JB43221-2	07/26/13	09:45	RY	07/26/13	AQ	Ground Water	FFSGC-D-GW
JB43221-3	07/26/13	10:20	RY	07/26/13	AQ	Ground Water	FFSGC-C-GW
JB43221-4	07/26/13	11:00	RY	07/26/13	AQ	Ground Water	FFSGC-E-GW

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Fort Monmouth Environmental Testing Lab.	**Job No**	JB43221
Site:	Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, F	**Report Date**	8/12/2013 6:54:04 PM

On 07/26/2013, 4 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 3 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JB43221 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:** V2C5068

- All samples were analyzed within the recommended method holding time.
- Sample(s) JB43221-1MS, JB43221-1MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Blank Spike Recovery(s) for 1,2,3-Trichlorobenzene, 1,2-Dibromoethane, 1,2-Dichlorobenzene, 1,4-Dichlorobenzene, Methyl Tert Butyl Ether, Toluene are outside control limits. High percent recoveries and no associated positive found in the QC batch.
- RPD(s) for MSD for 1,1,1-Trichloroethane, 1,1-Dichloroethene, Carbon tetrachloride, Cyclohexane, Dichlorodifluoromethane, Freon 113, Methylcyclohexane, Tetrachloroethene, Trichlorofluoromethane, Vinyl chloride are outside control limits for sample JB43221-1MSD. Outside control limits due to matrix interference.

Extractables by GCMS By Method SW846 8270D

Matrix: AQ **Batch ID:** OP67878

- All samples were extracted within the recommended method holding time.
- Sample(s) JB43271-16MS, JB43271-16MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for 3&4-Methylphenol are outside control limits. Outside control limits due to high level in sample relative to spike amount.

Extractables by GCMS By Method SW846 8270D BY SIM

Matrix: AQ **Batch ID:** OP67878A

- All samples were extracted within the recommended method holding time.
- Sample(s) JB43257-3MS, JB43257-3MSD 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:** OP67774

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB43032-6DUP, JB43151-8MS, JB43151-8MSD were used as the QC samples indicated.

Extractables by GC By Method SW846 8081B

Matrix: AQ **Batch ID:** OP67761

- All samples were extracted within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB43081-1MS, JB43081-1MSD, OP67761-MSMSD were used as the QC samples indicated.
- RPD(s) for MSD for delta-BHC, Endrin aldehyde are outside control limits for sample OP67761-MSD. Probable cause due to sample homogeneity.
- OP67761-MSD for delta-BHC: Analytical precision exceeds standard laboratory control limits.
- OP67761-MSD for Endrin aldehyde: Analytical precision exceeds standard laboratory control limits.

Extractables by GC By Method SW846 8082A

Matrix: AQ **Batch ID:** OP67762

- All samples were extracted within the recommended method holding time.
- Sample(s) JB43271-16MS, JB43271-16MSD, OP67762-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:** MP73511

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB43221-2MS, JB43221-2MSD, JB43221-2SDL 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 Duplicate Recovery(s) for Calcium are outside control limits. Probable cause due to matrix interference.
- Matrix Spike Recovery(s) for Iron 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 Cobalt, Lead, Selenium, Silver, Vanadium, Copper, Zinc are outside control limits for sample MP73511-SD1. Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
- MP73511-SD1 for Potassium: Serial dilution indicates possible matrix interference.

Metals By Method SW846 7470A

Matrix: AQ **Batch ID:** MP73559

- All samples were digested within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB43221-2MS, JB43221-2MSD were used as the QC samples for metals.

Wet Chemistry By Method EPA 335.4/LACHAT

Matrix: AQ **Batch ID:** GP73673

- All samples were prepared within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB43215-2DUP, JB43215-2MS were used as the QC samples for Cyanide.
- Matrix Spike Recovery(s) for Cyanide are outside control limits. Probable cause due to matrix interference.

Wet Chemistry By Method SM4500H+ B-11

Matrix: AQ **Batch ID:** R125051

- The data for SM4500H+ B-11 meets quality control requirements.
- JB43221-1 for pH: Sample received out of holding time for pH analysis.

Matrix: AQ **Batch ID:** R125052

- The data for SM4500H+ B-11 meets quality control requirements.
- JB43221-2 for pH: Sample received out of holding time for pH analysis.

Matrix: AQ **Batch ID:** R125053

- The data for SM4500H+ B-11 meets quality control requirements.
- JB43221-3 for pH: Sample received out of holding time for pH analysis.

Matrix: AQ **Batch ID:** R125054

- The data for SM4500H+ B-11 meets quality control requirements.
- JB43221-4 for pH: Sample received out of holding time for pH analysis.

Wet Chemistry By Method SW846 7196A

Matrix: AQ **Batch ID:** GN88831

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JB43221-2DUP, JB43221-2MS were used as the QC samples for Chromium, Hexavalent.
- Matrix Spike Recovery(s) for Chromium, Hexavalent are outside control limits. Spike recovery indicates possible matrix interference.Low pH adjusted post spike (44.7%)

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: JB43221
Account: Fort Monmouth Environmental Testing Lab.
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
Collected: 07/26/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JB43221-1	**FFSGC-B-GW**					
Chlorobenzene		2.8	1.0	0.23	ug/l	SW846 8260B
Diethyl phthalate		20.6	20	3.3	ug/l	SW846 8270D
Total TIC, Semi-Volatile		77 J			ug/l	
Aluminum		7650	200		ug/l	SW846 6010C
Arsenic		11.1	3.0		ug/l	SW846 6010C
Calcium		15200	5000		ug/l	SW846 6010C
Chromium		22.6	10		ug/l	SW846 6010C
Iron		52200	100		ug/l	SW846 6010C
Lead		13.6	3.0		ug/l	SW846 6010C
Manganese		285	15		ug/l	SW846 6010C
Sodium		27900	10000		ug/l	SW846 6010C
pH [a]		6.15			su	SM4500H+ B-11
JB43221-2	**FFSGC-D-GW**					
Chlorobenzene		3.0	1.0	0.23	ug/l	SW846 8260B
bis(2-Ethylhexyl)phthalate		6.8	2.0	0.59	ug/l	SW846 8270D
Aluminum		649	200		ug/l	SW846 6010C
Arsenic		7.3	3.0		ug/l	SW846 6010C
Calcium		18800	5000		ug/l	SW846 6010C
Iron		63600	100		ug/l	SW846 6010C
Magnesium		5760	5000		ug/l	SW846 6010C
Manganese		344	15		ug/l	SW846 6010C
Sodium		34300	10000		ug/l	SW846 6010C
pH [a]		6.08			su	SM4500H+ B-11
JB43221-3	**FFSGC-C-GW**					
Chlorobenzene		3.5	1.0	0.23	ug/l	SW846 8260B
Arsenic		8.3	3.0		ug/l	SW846 6010C
Calcium		20100	5000		ug/l	SW846 6010C
Iron		61600	100		ug/l	SW846 6010C
Lead		3.5	3.0		ug/l	SW846 6010C
Magnesium		5820	5000		ug/l	SW846 6010C
Manganese		375	15		ug/l	SW846 6010C
Sodium		38000	10000		ug/l	SW846 6010C
pH [a]		6.05			su	SM4500H+ B-11
JB43221-4	**FFSGC-E-GW**					
Chlorobenzene		3.3	1.0	0.23	ug/l	SW846 8260B
Aluminum		306	200		ug/l	SW846 6010C
Arsenic		10.2	3.0		ug/l	SW846 6010C

Summary of Hits

Job Number: JB43221
Account: Fort Monmouth Environmental Testing Lab.
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ
Collected: 07/26/13

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Calcium		20200	5000		ug/l	SW846 6010C
Iron		61100	100		ug/l	SW846 6010C
Lead		4.4	3.0		ug/l	SW846 6010C
Magnesium		5710	5000		ug/l	SW846 6010C
Manganese		369	15		ug/l	SW846 6010C
Sodium		37500	10000		ug/l	SW846 6010C
pH [a]		6.04			su	SM4500H+ B-11

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

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	FFSGC-B-GW		
Lab Sample ID:	JB43221-1	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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	2C110373.D	1	08/06/13	DR	n/a	n/a	V2C5068
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	2.8	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

Client Sample ID:	FFSGC-B-GW		
Lab Sample ID:	JB43221-1	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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	110%		72-123%
2037-26-5	Toluene-D8	105%		82-118%
460-00-4	4-Bromofluorobenzene	102%		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
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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:	FFSGC-B-GW		
Lab Sample ID:	JB43221-1	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
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	F26750.D	1	08/02/13	JL	08/01/13	OP67878	EF5308
Run #2							

	Initial Volume	Final Volume
Run #1	100 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	50	9.7	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	50	18	ug/l	
120-83-2	2,4-Dichlorophenol	ND	50	12	ug/l	
105-67-9	2,4-Dimethylphenol	ND	50	15	ug/l	
51-28-5	2,4-Dinitrophenol	ND	200	170	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	200	9.9	ug/l	
95-48-7	2-Methylphenol	ND	20	10	ug/l	
	3&4-Methylphenol	ND	20	9.3	ug/l	
88-75-5	2-Nitrophenol	ND	50	15	ug/l	
100-02-7	4-Nitrophenol	ND	100	52	ug/l	
108-95-2	Phenol	ND	20	13	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	50	9.4	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	50	16	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	50	13	ug/l	
98-86-2	Acetophenone	ND	20	2.9	ug/l	
1912-24-9	Atrazine	ND	50	4.9	ug/l	
100-52-7	Benzaldehyde	ND	50	33	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	20	3.6	ug/l	
85-68-7	Butyl benzyl phthalate	ND	20	2.9	ug/l	
92-52-4	1,1'-Biphenyl	ND	10	3.0	ug/l	
91-58-7	2-Chloronaphthalene	ND	20	3.0	ug/l	
106-47-8	4-Chloroaniline	ND	50	5.3	ug/l	
86-74-8	Carbazole	ND	10	3.6	ug/l	
105-60-2	Caprolactam	ND	20	6.9	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	20	3.1	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	20	3.1	ug/l	
108-60-1	bis(2-Chloroisopropyl)ether	ND	20	4.5	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	20	3.1	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	20	4.3	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	20	4.6	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	50	3.6	ug/l	
132-64-9	Dibenzofuran	ND	50	2.7	ug/l	

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

Client Sample ID:	FFSGC-B-GW		
Lab Sample ID:	JB43221-1	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
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	20	5.6	ug/l	
117-84-0	Di-n-octyl phthalate	ND	20	3.1	ug/l	
84-66-2	Diethyl phthalate	20.6	20	3.3	ug/l	
131-11-3	Dimethyl phthalate	ND	20	2.8	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	20	5.9	ug/l	
87-68-3	Hexachlorobutadiene	ND	10	5.1	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	100	71	ug/l	
67-72-1	Hexachloroethane	ND	20	5.5	ug/l	
78-59-1	Isophorone	ND	20	2.7	ug/l	
91-57-6	2-Methylnaphthalene	ND	10	3.8	ug/l	
88-74-4	2-Nitroaniline	ND	50	11	ug/l	
99-09-2	3-Nitroaniline	ND	50	13	ug/l	
100-01-6	4-Nitroaniline	ND	50	17	ug/l	
98-95-3	Nitrobenzene	ND	20	4.2	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	20	3.0	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	50	3.1	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	20	3.1	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		10-110%
4165-62-2	Phenol-d5	26%		10-110%
118-79-6	2,4,6-Tribromophenol	101%		29-139%
4165-60-0	Nitrobenzene-d5	80%		28-131%
321-60-8	2-Fluorobiphenyl	77%		30-121%
1718-51-0	Terphenyl-d14	83%		16-147%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.81	380	ug/l	J
	Internal standard added for SIM test	4.65	51	ug/l	J
	Internal standard added for SIM test	6.02	46	ug/l	J
	Internal standard added for SIM test	7.36	42	ug/l	J
	Internal standard added for SIM test	16.69	42	ug/l	J
	unknown	17.66	77	ug/l	J
	Total TIC, Semi-Volatile		77	ug/l	J
	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: FFSGC-B-GW
Lab Sample ID: JB43221-1 **Date Sampled:** 07/26/13
Matrix: AQ - Ground Water **Date Received:** 07/26/13
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
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	3M39402.D	1	08/01/13	AD	08/01/13	OP67878A	E3M1784
Run #2							

	Initial Volume	Final Volume
Run #1	100 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
87-86-5	Pentachlorophenol	ND	3.0	1.0	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.20	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.24	ug/l	
120-12-7	Anthracene	ND	1.0	0.20	ug/l	
56-55-3	Benzo(a)anthracene	ND	1.0	0.12	ug/l	
50-32-8	Benzo(a)pyrene	ND	1.0	0.12	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	1.0	0.10	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.16	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	1.0	0.15	ug/l	
218-01-9	Chrysene	ND	1.0	0.12	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	1.0	0.17	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.13	ug/l	
86-73-7	Fluorene	ND	1.0	0.17	ug/l	
118-74-1	Hexachlorobenzene	ND	0.20	0.17	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	1.0	0.14	ug/l	
91-20-3	Naphthalene	ND	1.0	0.36	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.21	ug/l	
129-00-0	Pyrene	ND	1.0	0.15	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	40%		10-110%
4165-62-2	Phenol-d5	34%		10-110%
118-79-6	2,4,6-Tribromophenol	99%		10-157%
4165-60-0	Nitrobenzene-d5	65%		23-131%
321-60-8	2-Fluorobiphenyl	64%		24-120%
1718-51-0	Terphenyl-d14	68%		10-125%

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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

Client Sample ID: FFSGC-B-GW
Lab Sample ID: JB43221-1 **Date Sampled:** 07/26/13
Matrix: AQ - Ground Water **Date Received:** 07/26/13
Method: SW846 8081B SW846 3510C **Percent Solids:** n/a
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	6G2631.D	1	07/30/13	DS	07/29/13	OP67761	G6G88
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	61%		14-144%
877-09-8	Tetrachloro-m-xylene	71%		14-144%
2051-24-3	Decachlorobiphenyl	51%		10-128%
2051-24-3	Decachlorobiphenyl	53%		10-128%

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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:	FFSGC-B-GW		
Lab Sample ID:	JB43221-1	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
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	EF122007.D	1	07/30/13	JP	07/29/13	OP67762	GEF4816
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	55%		16-140%
877-09-8	Tetrachloro-m-xylene	57%		16-140%
2051-24-3	Decachlorobiphenyl	46%		10-125%
2051-24-3	Decachlorobiphenyl	46%		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

Client Sample ID:	FFSGC-B-GW		
Lab Sample ID:	JB43221-1	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	NJDEP EPH SW846 3510C	**Percent Solids:**	n/a
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	5Z10330.D	1	07/31/13	GAD	07/29/13	OP67774	G5Z338
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	97%		40-140%
3386-33-2	1-Chlorooctadecane	44%		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

Client Sample ID: FFSGC-B-GW
Lab Sample ID: JB43221-1
Matrix: AQ - Ground Water
Date Sampled: 07/26/13
Date Received: 07/26/13
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	7650	200	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Antimony	< 6.0	6.0	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Arsenic	11.1	3.0	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 3.0	3.0	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Calcium	15200	5000	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Chromium	22.6	10	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Copper	< 10	10	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Iron	52200	100	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Lead	13.6	3.0	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Magnesium	< 5000	5000	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Manganese	285	15	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	07/31/13	07/31/13	JW	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 10	10	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Potassium	< 10000	10000	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Sodium	27900	10000	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Thallium	< 2.0	2.0	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Vanadium	< 50	50	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA31779
(2) Instrument QC Batch: MA31829
(3) Prep QC Batch: MP73511
(4) Prep QC Batch: MP73559

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FFSGC-B-GW		
Lab Sample ID:	JB43221-1	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
		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	07/26/13 22:36	CF	SW846 7196A
Cyanide	< 0.010	0.010	mg/l	1	08/01/13 11:44	CV	EPA 335.4/LACHAT
pH [a]	6.15		su	1	07/26/13 16:38	EE	SM4500H+ B-11

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FFSGC-D-GW		
Lab Sample ID:	JB43221-2	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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	2C110374.D	1	08/06/13	DR	n/a	n/a	V2C5068
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	3.0	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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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:	FFSGC-D-GW		
Lab Sample ID:	JB43221-2	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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	99%		79-117%
17060-07-0	1,2-Dichloroethane-D4	111%		72-123%
2037-26-5	Toluene-D8	104%		82-118%
460-00-4	4-Bromofluorobenzene	100%		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:	FFSGC-D-GW		
Lab Sample ID:	JB43221-2	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
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	F26751.D	1	08/02/13	JL	08/01/13	OP67878	EF5308
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	

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:	FFSGC-D-GW		
Lab Sample ID:	JB43221-2	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
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	6.8	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	50%		10-110%
4165-62-2	Phenol-d5	30%		10-110%
118-79-6	2,4,6-Tribromophenol	104%		29-139%
4165-60-0	Nitrobenzene-d5	94%		28-131%
321-60-8	2-Fluorobiphenyl	85%		30-121%
1718-51-0	Terphenyl-d14	84%		16-147%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.81	43	ug/l	J
	system artifact/aldol-condensation	3.30	4.3	ug/l	J
	Internal standard added for SIM test	4.65	5.6	ug/l	J
	Internal standard added for SIM test	6.01	4.6	ug/l	J
	Internal standard added for SIM test	7.36	4	ug/l	J
	Total TIC, Semi-Volatile		0	ug/l	
	Total Alkanes		0	ug/l	

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

Client Sample ID:	FFSGC-D-GW		
Lab Sample ID:	JB43221-2	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8270D BY SIM SW846 3510C	**Percent Solids:**	n/a
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	3M39403.D	1	08/02/13	AD	08/01/13	OP67878A	E3M1784
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	49%		10-110%
4165-62-2	Phenol-d5	39%		10-110%
118-79-6	2,4,6-Tribromophenol	105%		10-157%
4165-60-0	Nitrobenzene-d5	79%		23-131%
321-60-8	2-Fluorobiphenyl	73%		24-120%
1718-51-0	Terphenyl-d14	71%		10-125%

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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

Client Sample ID:	FFSGC-D-GW		
Lab Sample ID:	JB43221-2	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
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	6G2632.D	1	07/30/13	DS	07/29/13	OP67761	G6G88
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0080	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0024	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	0.0018	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0029	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	0.0016	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	0.0048	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0029	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	0.0027	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0041	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	66%		14-144%
877-09-8	Tetrachloro-m-xylene	76%		14-144%
2051-24-3	Decachlorobiphenyl	51%		10-128%
2051-24-3	Decachlorobiphenyl	54%		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

Client Sample ID:	FFSGC-D-GW		
Lab Sample ID:	JB43221-2	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
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	EF122008.D	1	07/30/13	JP	07/29/13	OP67762	GEF4816
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.51	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.51	0.28	ug/l	
11141-16-5	Aroclor 1232	ND	0.51	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.51	0.088	ug/l	
12672-29-6	Aroclor 1248	ND	0.51	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.51	0.14	ug/l	
11096-82-5	Aroclor 1260	ND	0.51	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.51	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.51	0.061	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	56%		16-140%
877-09-8	Tetrachloro-m-xylene	61%		16-140%
2051-24-3	Decachlorobiphenyl	48%		10-125%
2051-24-3	Decachlorobiphenyl	48%		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

Client Sample ID:	FFSGC-D-GW		
Lab Sample ID:	JB43221-2	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	NJDEP EPH SW846 3510C	**Percent Solids:**	n/a
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	5Z10331.D	1	07/31/13	GAD	07/29/13	OP67774	G5Z338
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	112%		40-140%
3386-33-2	1-Chlorooctadecane	93%		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

Client Sample ID: FFSGC-D-GW
Lab Sample ID: JB43221-2
Matrix: AQ - Ground Water
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Date Sampled: 07/26/13
Date Received: 07/26/13
Percent Solids: n/a

Total Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Aluminum	649	200	ug/l	1	07/30/13	08/06/13	KK	SW846 6010C [2]	SW846 3010A [5]
Antimony	< 6.0	6.0	ug/l	1	07/30/13	08/06/13	KK	SW846 6010C [2]	SW846 3010A [5]
Arsenic	7.3	3.0	ug/l	1	07/30/13	08/06/13	KK	SW846 6010C [2]	SW846 3010A [5]
Barium	< 200	200	ug/l	1	07/30/13	08/06/13	KK	SW846 6010C [2]	SW846 3010A [5]
Beryllium	< 1.0	1.0	ug/l	1	07/30/13	08/06/13	KK	SW846 6010C [2]	SW846 3010A [5]
Cadmium	< 3.0	3.0	ug/l	1	07/30/13	08/06/13	KK	SW846 6010C [2]	SW846 3010A [5]
Calcium	18800	5000	ug/l	1	07/30/13	08/06/13	GT	SW846 6010C [3]	SW846 3010A [5]
Chromium	< 10	10	ug/l	1	07/30/13	08/06/13	GT	SW846 6010C [3]	SW846 3010A [5]
Cobalt	< 50	50	ug/l	1	07/30/13	08/06/13	KK	SW846 6010C [2]	SW846 3010A [5]
Copper	< 10	10	ug/l	1	07/30/13	08/06/13	GT	SW846 6010C [3]	SW846 3010A [5]
Iron	63600	100	ug/l	1	07/30/13	08/06/13	KK	SW846 6010C [2]	SW846 3010A [5]
Lead	< 3.0	3.0	ug/l	1	07/30/13	08/06/13	KK	SW846 6010C [2]	SW846 3010A [5]
Magnesium	5760	5000	ug/l	1	07/30/13	08/06/13	KK	SW846 6010C [2]	SW846 3010A [5]
Manganese	344	15	ug/l	1	07/30/13	08/06/13	GT	SW846 6010C [3]	SW846 3010A [5]
Mercury	< 0.20	0.20	ug/l	1	07/31/13	07/31/13	JW	SW846 7470A [1]	SW846 7470A [6]
Nickel	< 10	10	ug/l	1	07/30/13	08/06/13	KK	SW846 6010C [2]	SW846 3010A [5]
Potassium	< 10000	10000	ug/l	1	07/30/13	08/06/13	GT	SW846 6010C [3]	SW846 3010A [5]
Selenium	< 10	10	ug/l	1	07/30/13	08/06/13	KK	SW846 6010C [2]	SW846 3010A [5]
Silver	< 10	10	ug/l	1	07/30/13	08/06/13	KK	SW846 6010C [2]	SW846 3010A [5]
Sodium	34300	10000	ug/l	1	07/30/13	08/06/13	GT	SW846 6010C [3]	SW846 3010A [5]
Thallium	< 2.0	2.0	ug/l	1	07/30/13	08/07/13	ND	SW846 6010C [4]	SW846 3010A [5]
Vanadium	< 50	50	ug/l	1	07/30/13	08/06/13	KK	SW846 6010C [2]	SW846 3010A [5]
Zinc	< 20	20	ug/l	1	07/30/13	08/06/13	GT	SW846 6010C [3]	SW846 3010A [5]

(1) Instrument QC Batch: MA31779
(2) Instrument QC Batch: MA31825
(3) Instrument QC Batch: MA31829
(4) Instrument QC Batch: MA31833
(5) Prep QC Batch: MP73511
(6) Prep QC Batch: MP73559

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FFSGC-D-GW		
Lab Sample ID:	JB43221-2	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
		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	07/26/13 22:36	CF	SW846 7196A
Cyanide	< 0.010	0.010	mg/l	1	08/01/13 11:45	CV	EPA 335.4/LACHAT
pH [a]	6.08		su	1	07/26/13 16:43	EE	SM4500H+ B-11

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FFSGC-C-GW		
Lab Sample ID:	JB43221-3	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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	2C110375.D	1	08/06/13	DR	n/a	n/a	V2C5068
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	3.5	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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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:	FFSGC-C-GW		
Lab Sample ID:	JB43221-3	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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	111%		72-123%
2037-26-5	Toluene-D8	104%		82-118%
460-00-4	4-Bromofluorobenzene	101%		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: FFSGC-C-GW
Lab Sample ID: JB43221-3 **Date Sampled:** 07/26/13
Matrix: AQ - Ground Water **Date Received:** 07/26/13
Method: SW846 8270D SW846 3510C **Percent Solids:** n/a
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	F26752.D	1	08/02/13	JL	08/01/13	OP67878	EF5308
Run #2							

	Initial Volume	Final Volume
Run #1	980 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	5.1	0.99	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	5.1	1.9	ug/l	
120-83-2	2,4-Dichlorophenol	ND	5.1	1.2	ug/l	
105-67-9	2,4-Dimethylphenol	ND	5.1	1.6	ug/l	
51-28-5	2,4-Dinitrophenol	ND	20	17	ug/l	
534-52-1	4,6-Dinitro-o-cresol	ND	20	1.0	ug/l	
95-48-7	2-Methylphenol	ND	2.0	1.1	ug/l	
	3&4-Methylphenol	ND	2.0	0.94	ug/l	
88-75-5	2-Nitrophenol	ND	5.1	1.5	ug/l	
100-02-7	4-Nitrophenol	ND	10	5.3	ug/l	
108-95-2	Phenol	ND	2.0	1.3	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	5.1	0.96	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	5.1	1.6	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	5.1	1.3	ug/l	
98-86-2	Acetophenone	ND	2.0	0.29	ug/l	
1912-24-9	Atrazine	ND	5.1	0.50	ug/l	
100-52-7	Benzaldehyde	ND	5.1	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	0.31	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.30	ug/l	
106-47-8	4-Chloroaniline	ND	5.1	0.54	ug/l	
86-74-8	Carbazole	ND	1.0	0.37	ug/l	
105-60-2	Caprolactam	ND	2.0	0.70	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	0.46	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.32	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	2.0	0.43	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	2.0	0.47	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	5.1	0.37	ug/l	
132-64-9	Dibenzofuran	ND	5.1	0.27	ug/l	

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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:	FFSGC-C-GW		
Lab Sample ID:	JB43221-3	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
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	0.57	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	0.29	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	0.60	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.52	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	10	7.3	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.56	ug/l	
78-59-1	Isophorone	ND	2.0	0.28	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.39	ug/l	
88-74-4	2-Nitroaniline	ND	5.1	1.1	ug/l	
99-09-2	3-Nitroaniline	ND	5.1	1.3	ug/l	
100-01-6	4-Nitroaniline	ND	5.1	1.7	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.43	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.31	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	5.1	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	24%		10-110%
118-79-6	2,4,6-Tribromophenol	89%		29-139%
4165-60-0	Nitrobenzene-d5	74%		28-131%
321-60-8	2-Fluorobiphenyl	71%		30-121%
1718-51-0	Terphenyl-d14	73%		16-147%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.81	37	ug/l	J
	Internal standard added for SIM test	4.65	5.1	ug/l	J
	Internal standard added for SIM test	6.02	4.7	ug/l	J
	Internal standard added for SIM test	7.36	4.5	ug/l	J
	Total TIC, Semi-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: FFSGC-C-GW
Lab Sample ID: JB43221-3 **Date Sampled:** 07/26/13
Matrix: AQ - Ground Water **Date Received:** 07/26/13
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
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	3M39404.D	1	08/02/13	AD	08/01/13	OP67878A	E3M1784
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
87-86-5	Pentachlorophenol	ND	0.31	0.10	ug/l	
83-32-9	Acenaphthene	ND	0.10	0.021	ug/l	
208-96-8	Acenaphthylene	ND	0.10	0.024	ug/l	
120-12-7	Anthracene	ND	0.10	0.021	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.10	0.012	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.10	0.013	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	0.014	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	0.015	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	41%		10-110%
4165-62-2	Phenol-d5	34%		10-110%
118-79-6	2,4,6-Tribromophenol	93%		10-157%
4165-60-0	Nitrobenzene-d5	65%		23-131%
321-60-8	2-Fluorobiphenyl	65%		24-120%
1718-51-0	Terphenyl-d14	63%		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

Client Sample ID: FFSGC-C-GW
Lab Sample ID: JB43221-3 **Date Sampled:** 07/26/13
Matrix: AQ - Ground Water **Date Received:** 07/26/13
Method: SW846 8081B SW846 3510C **Percent Solids:** n/a
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	6G2633.D	1	07/30/13	DS	07/29/13	OP67761	G6G88
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	67%		14-144%
877-09-8	Tetrachloro-m-xylene	78%		14-144%
2051-24-3	Decachlorobiphenyl	39%		10-128%
2051-24-3	Decachlorobiphenyl	43%		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

Client Sample ID:	FFSGC-C-GW		
Lab Sample ID:	JB43221-3	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
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	EF122009.D	1	07/30/13	JP	07/29/13	OP67762	GEF4816
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	56%		16-140%
877-09-8	Tetrachloro-m-xylene	62%		16-140%
2051-24-3	Decachlorobiphenyl	38%		10-125%
2051-24-3	Decachlorobiphenyl	39%		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

Client Sample ID:	FFSGC-C-GW		
Lab Sample ID:	JB43221-3	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	NJDEP EPH SW846 3510C	**Percent Solids:**	n/a
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	5Z10332.D	1	07/31/13	GAD	07/29/13	OP67774	G5Z338
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	92%		40-140%
3386-33-2	1-Chlorooctadecane	53%		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

Client Sample ID: FFSGC-C-GW
Lab Sample ID: JB43221-3
Matrix: AQ - Ground Water
Date Sampled: 07/26/13
Date Received: 07/26/13
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	< 200	200	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Antimony	< 6.0	6.0	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Arsenic	8.3	3.0	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 3.0	3.0	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Calcium	20100	5000	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Copper	< 10	10	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Iron	61600	100	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Lead	3.5	3.0	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Magnesium	5820	5000	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Manganese	375	15	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	07/31/13	07/31/13	JW	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 10	10	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Potassium	< 10000	10000	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Sodium	38000	10000	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Thallium	< 2.0	2.0	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Vanadium	< 50	50	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA31779
(2) Instrument QC Batch: MA31829
(3) Prep QC Batch: MP73511
(4) Prep QC Batch: MP73559

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FFSGC-C-GW		
Lab Sample ID:	JB43221-3	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
		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	07/26/13 22:36	CF	SW846 7196A
Cyanide	< 0.010	0.010	mg/l	1	08/01/13 11:48	CV	EPA 335.4/LACHAT
pH [a]	6.05		su	1	07/26/13 16:48	EE	SM4500H+ B-11

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

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FFSGC-E-GW		
Lab Sample ID:	JB43221-4	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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	2C110376.D	1	08/06/13	DR	n/a	n/a	V2C5068
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	3.3	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
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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:	FFSGC-E-GW		
Lab Sample ID:	JB43221-4	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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	112%		72-123%
2037-26-5	Toluene-D8	105%		82-118%
460-00-4	4-Bromofluorobenzene	100%		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
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J = Indicates an estimated value
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N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FFSGC-E-GW		
Lab Sample ID:	JB43221-4	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
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	F26753.D	1	08/02/13	JL	08/01/13	OP67878	EF5308
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	

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:	FFSGC-E-GW		
Lab Sample ID:	JB43221-4	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
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	54%		10-110%
4165-62-2	Phenol-d5	34%		10-110%
118-79-6	2,4,6-Tribromophenol	108%		29-139%
4165-60-0	Nitrobenzene-d5	97%		28-131%
321-60-8	2-Fluorobiphenyl	87%		30-121%
1718-51-0	Terphenyl-d14	86%		16-147%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	system artifact	1.81	45	ug/l	J
	system artifact/aldol-condensation	3.30	4.3	ug/l	J
	Internal standard added for SIM test	4.65	5	ug/l	J
	Internal standard added for SIM test	6.02	4.4	ug/l	J
	Internal standard added for SIM test	7.36	4.1	ug/l	J
	Total TIC, Semi-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: FFSGC-E-GW
Lab Sample ID: JB43221-4 **Date Sampled:** 07/26/13
Matrix: AQ - Ground Water **Date Received:** 07/26/13
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
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	3M39405.D	1	08/02/13	AD	08/01/13	OP67878A	E3M1784
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	49%		10-110%
4165-62-2	Phenol-d5	42%		10-110%
118-79-6	2,4,6-Tribromophenol	104%		10-157%
4165-60-0	Nitrobenzene-d5	78%		23-131%
321-60-8	2-Fluorobiphenyl	74%		24-120%
1718-51-0	Terphenyl-d14	67%		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

Client Sample ID:	FFSGC-E-GW		
Lab Sample ID:	JB43221-4	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
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	6G2634.D	1	07/30/13	DS	07/29/13	OP67761	G6G88
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	10.0 ml
Run #2		

Pesticide TCL List

CAS No.	Compound	Result	RL	MDL	Units	Q
309-00-2	Aldrin	ND	0.010	0.0080	ug/l	
319-84-6	alpha-BHC	ND	0.010	0.0024	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	0.0018	ug/l	
5103-71-9	alpha-Chlordane	ND	0.010	0.0029	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	0.0016	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	0.0048	ug/l	
959-98-8	Endosulfan-I	ND	0.010	0.0029	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	0.0027	ug/l	
72-43-5	Methoxychlor	ND	0.020	0.0041	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	58%		14-144%
877-09-8	Tetrachloro-m-xylene	68%		14-144%
2051-24-3	Decachlorobiphenyl	39%		10-128%
2051-24-3	Decachlorobiphenyl	42%		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

Client Sample ID:	FFSGC-E-GW		
Lab Sample ID:	JB43221-4	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
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	EF122010.D	1	07/30/13	JP	07/29/13	OP67762	GEF4816
Run #2							

	Initial Volume	Final Volume
Run #1	980 ml	10.0 ml
Run #2		

PCB List

CAS No.	Compound	Result	RL	MDL	Units	Q
12674-11-2	Aroclor 1016	ND	0.51	0.13	ug/l	
11104-28-2	Aroclor 1221	ND	0.51	0.28	ug/l	
11141-16-5	Aroclor 1232	ND	0.51	0.39	ug/l	
53469-21-9	Aroclor 1242	ND	0.51	0.088	ug/l	
12672-29-6	Aroclor 1248	ND	0.51	0.15	ug/l	
11097-69-1	Aroclor 1254	ND	0.51	0.14	ug/l	
11096-82-5	Aroclor 1260	ND	0.51	0.21	ug/l	
11100-14-4	Aroclor 1268	ND	0.51	0.13	ug/l	
37324-23-5	Aroclor 1262	ND	0.51	0.061	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
877-09-8	Tetrachloro-m-xylene	51%		16-140%
877-09-8	Tetrachloro-m-xylene	53%		16-140%
2051-24-3	Decachlorobiphenyl	37%		10-125%
2051-24-3	Decachlorobiphenyl	36%		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

Client Sample ID:	FFSGC-E-GW		
Lab Sample ID:	JB43221-4	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
Method:	NJDEP EPH SW846 3510C	**Percent Solids:**	n/a
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	5Z10333.D	1	07/31/13	GAD	07/29/13	OP67774	G5Z338
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	75%		40-140%
3386-33-2	1-Chlorooctadecane	45%		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

Client Sample ID: FFSGC-E-GW
Lab Sample ID: JB43221-4
Matrix: AQ - Ground Water
Date Sampled: 07/26/13
Date Received: 07/26/13
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	306	200	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Antimony	< 6.0	6.0	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Arsenic	10.2	3.0	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Barium	< 200	200	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Beryllium	< 1.0	1.0	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Cadmium	< 3.0	3.0	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Calcium	20200	5000	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Chromium	< 10	10	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Cobalt	< 50	50	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Copper	< 10	10	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Iron	61100	100	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Lead	4.4	3.0	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Magnesium	5710	5000	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Manganese	369	15	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Mercury	< 0.20	0.20	ug/l	1	07/31/13	07/31/13	JW	SW846 7470A [1]	SW846 7470A [4]
Nickel	< 10	10	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Potassium	< 10000	10000	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Selenium	< 10	10	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Silver	< 10	10	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Sodium	37500	10000	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Thallium	< 2.0	2.0	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Vanadium	< 50	50	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]
Zinc	< 20	20	ug/l	1	07/30/13	08/07/13	GT	SW846 6010C [2]	SW846 3010A [3]

(1) Instrument QC Batch: MA31779
(2) Instrument QC Batch: MA31829
(3) Prep QC Batch: MP73511
(4) Prep QC Batch: MP73559

RL = Reporting Limit

Report of Analysis

Client Sample ID:	FFSGC-E-GW		
Lab Sample ID:	JB43221-4	**Date Sampled:**	07/26/13
Matrix:	AQ - Ground Water	**Date Received:**	07/26/13
		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	07/26/13 22:36	CF	SW846 7196A
Cyanide	< 0.010	0.010	mg/l	1	08/01/13 11:50	CV	EPA 335.4/LACHAT
pH [a]	6.04		su	1	07/26/13 16:54	EE	SM4500H+ B-11

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

RL = Reporting Limit

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

GW

CHAIN OF CUSTODY

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

PAGE 1 OF 1 E

FED-EX Tracking #

Bottle Order Control #

Accutest Quote #

Accutest Job # JB43221

Client / Reporting Information

Company Name: U.S. Army Fort Monmouth
Street Address: P.O. Box 148
City: Oceanport State: NJ Zip: 07757
Project Contact: Robert Yaskal E-mail: ryaskal@chenegw.com
Phone #: 732-380-7412 Fax #:
Sampler(s) Name(s): Robert Yaskal Phone #: 732-380-7412

Project Information

Project Name: CWA-TP
Street: Laboratory Road
City: Tinton Falls State: NJ
Project #: CWATP
Client Purchase Order #: DAG 1/2012-646
Project Manager: Wanda Green

Billing Information (if different from Report to)

Company Name: CES, LLC
Street Address: P.O. Box 148
City: Oceanport State: NJ Zip: 07757
Attention: Helene Sachnowitz

Requested Analysis (see TEST CODE sheet)

Full TCL/TAL+30
Hexavalent Chromium
BNS+PH
PH

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - 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

Accutest Sample #	Field ID / Point of Collection	PH MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	LAB USE ONLY
-1	FFSGC-B-GW	6.15	07/26/13	09:00	RY	GW	13	5	1	1		6				B28
-2	FFSGC-D-GW	6.08	07/26/13	09:45	RY	GW	13	5	1	1		6				A12
-3	FFSGC-C-GW	6.05	07/26/13	10:20	RY	GW	13	5	1	1		6				C54
-4	FFSGC-E-GW	6.04	07/26/13	11:00	RY	GW	13	5	1	1		6				G17
																2184

Turnaround Time (Business days)

- [ ] Std. 15 Business Days
- [x] 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

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [x] 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

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1	Date Time: 07/26/13 11:20	Received By: 1	Relinquished By: 2	Date Time: 7/26/13 1545	Received By: 2		
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4		
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # N/A	Intact / Not intact	Preserved where applicable	On Ice	Cooler Temp. 3-3.0

Cont

JB43221: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JB43221 **Client:** **Project:**

Date / Time Received: 7/26/2013 **Delivery Method:** **Airbill #'s:**

Cooler Temps (Initial/Adjusted): #1: (3/3); #2: (2/2); 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:	Bar Therm
3. Cooler media:	Ice (Bag)
4. No. Coolers:	2

Quality Control Preservatio	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:	☐ ☐	☑

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JB43221: Chain of Custody
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New Jersey ACCUTEST LABORATORIES

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**

ACCREDITED IN ACCORDANCE WITH nelac

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.

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

Sections: 1 2 3 4 5

Table of Contents

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 Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
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

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 / Analyte	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.

New Jersey ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	SSEH-A-GW		
Lab Sample ID:	JB43595-1	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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	

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:	SSEH-A-GW		
Lab Sample ID:	JB43595-1	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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	

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:	SSEH-A-GW		
Lab Sample ID:	JB43595-1	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
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	Z83240.D	1	08/07/13	OYA	08/06/13	OP67983	EZ4199
Run #2							

	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	

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:	SSEH-A-GW		
Lab Sample ID:	JB43595-1	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
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	

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: SSEH-A-GW
Lab Sample ID: JB43595-1 **Date Sampled:** 07/31/13
Matrix: AQ - Ground Water **Date Received:** 07/31/13
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
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%

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:	SSEH-A-GW		
Lab Sample ID:	JB43595-1	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
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%

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:	SSEH-A-GW		
Lab Sample ID:	JB43595-1	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
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%

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:	SSEH-A-GW		
Lab Sample ID:	JB43595-1	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
Method:	NJDEP EPH SW846 3510C	**Percent Solids:**	n/a
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%

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: SSEH-A-GW
Lab Sample ID: JB43595-1
Matrix: AQ - Ground Water
Date Sampled: 07/31/13
Date Received: 07/31/13
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	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		
Lab Sample ID:	JB43595-1	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
		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

Client Sample ID:	SUST-A-GW		
Lab Sample ID:	JB43595-2	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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	

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:	SUST-A-GW		
Lab Sample ID:	JB43595-2	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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	

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:	SUST-A-GW		
Lab Sample ID:	JB43595-2	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
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	Z83241.D	1	08/07/13	OYA	08/06/13	OP67983	EZ4199
Run #2							

	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	

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:	SUST-A-GW		
Lab Sample ID:	JB43595-2	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
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	

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: SUST-A-GW
Lab Sample ID: JB43595-2 **Date Sampled:** 07/31/13
Matrix: AQ - Ground Water **Date Received:** 07/31/13
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
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%

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:	SUST-A-GW		
Lab Sample ID:	JB43595-2	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
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%

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:	SUST-A-GW		
Lab Sample ID:	JB43595-2	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
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

Client Sample ID:	SUST-A-GW		
Lab Sample ID:	JB43595-2	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
Method:	NJDEP EPH SW846 3510C	**Percent Solids:**	n/a
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%

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: SUST-A-GW
Lab Sample ID: JB43595-2
Matrix: AQ - Ground Water
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Date Sampled: 07/31/13
Date Received: 07/31/13
Percent Solids: n/a

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		
Lab Sample ID:	JB43595-2	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
		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

Client Sample ID:	SUST-B-GW		
Lab Sample ID:	JB43595-3	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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	

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:	SUST-B-GW		
Lab Sample ID:	JB43595-3	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
Method:	SW846 8260B	**Percent Solids:**	n/a
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	

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:	SUST-B-GW		
Lab Sample ID:	JB43595-3	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
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	Z83242.D	1	08/07/13	OYA	08/06/13	OP67983	EZ4199
Run #2							

	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	

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:	SUST-B-GW		
Lab Sample ID:	JB43595-3	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
Method:	SW846 8270D SW846 3510C	**Percent Solids:**	n/a
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
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: SUST-B-GW
Lab Sample ID: JB43595-3 **Date Sampled:** 07/31/13
Matrix: AQ - Ground Water **Date Received:** 07/31/13
Method: SW846 8270D BY SIM SW846 3510C **Percent Solids:** n/a
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%

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:	SUST-B-GW		
Lab Sample ID:	JB43595-3	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
Method:	SW846 8081B SW846 3510C	**Percent Solids:**	n/a
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

Client Sample ID:	SUST-B-GW		
Lab Sample ID:	JB43595-3	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
Method:	SW846 8082A SW846 3510C	**Percent Solids:**	n/a
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

Client Sample ID:	SUST-B-GW		
Lab Sample ID:	JB43595-3	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
Method:	NJDEP EPH SW846 3510C	**Percent Solids:**	n/a
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

Client Sample ID: SUST-B-GW
Lab Sample ID: JB43595-3
Matrix: AQ - Ground Water
Project: Fort Monmouth Env Testing Lab, Building 173, SELFM-PW-EV, Fort Monmouth, NJ

Date Sampled: 07/31/13
Date Received: 07/31/13
Percent Solids: n/a

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		
Lab Sample ID:	JB43595-3	**Date Sampled:**	07/31/13
Matrix:	AQ - Ground Water	**Date Received:**	07/31/13
		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

New Jersey ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

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

PAGE 1 OF 1 E

FED-EX Tracking #: | Bottle Order Control #:
Accutest Quote #: | Accutest Job #: JB43595

Client / Reporting Information

Company Name: U.S. Army Fort Monmouth
Street Address: P.O. Box 148
City: Oceanport State: NJ Zip: 07724
Project Contact: Robert Youbas E-mail: ryoubas@dmegov.com
Phone #: 732-380-7412 Fax #:
Sampler(s) Name(s): Robert Youbas Phone #: 732-380-7412

Project Information

Project Name: CWATP
Street: Laboratory Road
City: Tinton Falls State: NJ
Project #: CWATP
Client Purchase Order #: DG6/2012-646
Project Manager: Wanda Green

Billing Information (if different from Report to)

Company Name: COS, LLC
Street Address: P.O. Box 148
City: Oceanport State: NJ Zip: 07757
Attention: Helene Sacknowitz

Requested Analysis (see TEST CODE sheet)

Full TCL/TAL+30
Hexavalent Chromium
BNJSEPH
pH

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - 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

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	LAB USE ONLY
1	SSEH-A-GW		07/31/13	08:10	RY	GW	13	5	1	1		6				B27
2	SUST-A-GW		07/31/13	08:30	RY	GW	13	5	1	1		6				A1
3	SUST-B-GW		07/31/13	09:30	RY	GW	13	5	1	1		6				C10

pH: 7.03 6.98 6.71

Turnaround Time (Business days)

- [ ] Std. 15 Business Days
- [x] 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 Labtink

Approved By (Accutest PM): / Date:

Data Deliverable Information

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] FULLT1 (Level 3+4)
- [x] 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

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1	Date Time: 07/31/13 11:30	Received By: 1	Relinquished By: 2	Date Time: 7-31-13 1425	Received By: 2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time: 1610	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # N/A	Intact / Not Intact	Preserved where applicable: On Ice: Cooler Temp: 5.2 5.4

A

5.1 5

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		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 Preservatio	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:	☐		☐	☑

Attachment I

Weston (1995) SI Report Excerpt for the CW-5 Former Sanitary Treatment Plant

FINAL

SITE INVESTIGATION
FORT MONMOUTH, NEW JERSEY
MAIN POST AND CHARLES WOOD AREAS

Prepared For:

U.S. ARMY CORPS OF ENGINEERS
Baltimore District
10 South Howard Street
Baltimore, MD 21201

Under:

Contract DACA31-92-D-0018

Prepared By:

ROY F. WESTON, INC.
1 Weston Way
West Chester, PA 19380-1499

December 1995

Site CW-5

4.3.7 Former Sanitary Treatment Plant (CW-5)

4.3.7.1 Site Location

The former STP at Charles Wood was located in the southwest corner of the area bounded by Hope Road to the east, Corregidor Road to the north, Guam Lane to the west, and Laboratory Road to the south (Figure 4.3-11). The approximate area of the STP was 134,080 ft^2 (3.1 acres).

4.3.7.2 Site History

The Charles Wood STP was built in 1942 to handle 800,000 gallons of sewage per day. As described in the IA, this STP consisted of a grit chamber screen, comminutor, primary and secondary settling tanks, biofilters, and a baffled contact chlorination tank. Sludge was treated in two anaerobic digesters and discharged to underdrained sand beds for final drying. Supernatant liquid from digester sludge and drainage from the sand beds were recycled through the STP for additional treatment. The chlorinated effluent was discharged to a tributary of Wampum Brook on the east side of Hope Road. Sludge went to the golf course and to landfills. This STP was closed on 29 October 1975 when the Charles Wood sewer system was connected to the NMCRSA system. In 1981, all sludges and supernatant liquids were removed from the STP, and the facility was cleaned and disinfected. The removal contractor was Modern Transportation Co. of Kearny, New Jersey. Mercury used in the distributor seal on the biofilter was removed and disposed of by the Directorate of Logistics. The physical facility was demolished in 1983. In 1993, a youth center was constructed on this site.

4.3.7.3 Sampling Effort

The CW-5 site is presented in Figure 4.3-11. One sediment sample from the outfall area east of Hope Road was collected and analyzed for TCL +30 parameters, TAL metals, and cyanide. Two soil borings were completed and soil samples collected in an effort to evaluate the impact of the former sludge-drying beds on soil quality in the original land surface. Soil borings SB-01 and SB-02 were completed to 8- and 6-ft bgs, respectively. Saturation was observed between 5.5- and 7-ft bgs. The lithology consisted of a yellow-brown gravelly sand fill underdrain by a

greenish-gray silty sand. Soil boring samples were analyzed for TCL +30 parameters, TAL metals, and cyanides.

4.3.7.4 Soil Sampling Results

Two soil samples, one in each borehole, were collected from the 6- to 8-ft bgs sampling interval and were analyzed for the parameters listed in Table 3.6-1. The analytical results for site soils are listed in Appendix D. Table 4.3-8 compares the detected compounds with the NJDEP SCC, and then compares the results with the site-specific and Monmouth County maximum background levels. In addition, the detected compounds were also compared with the impact to groundwater SCC because no monitor wells were installed at this site.

VOCs

One VOC (2-butanone) was detected in SB-01. The concentration was detected well below both applicable SCC (residential and impact to groundwater) and background. 2-Butanone is a common laboratory contaminant.

SVOCs

One SVOC was detected above the laboratory quantitation limit in site soil in SB-01, but below the NJDEP SCC and background. In addition, all compounds detected below quantitation limits were also detected well below both SCCs.

Pesticides/PCBs

Five pesticides and two PCBs were detected in concentrations above laboratory quantitation limits in SB-01 and SB-02, but were detected well below both of their respective SCCs and background.

Table 4.3-8
Fort Monmouth - Charles Wood
Summary of Detected Compounds in
Soil from Site CW-5

COMPOUND	METHOD DETECTION LIMIT (mg/kg)	RESIDENTIAL DIRECT CONTACT SOIL CLEANUP CRITERIA (mg/kg)	MAXIMUM BACKGROUND CONCENTRATION (mg/kg)	ANALYTICAL RESULTS	
				SB01-A02 12/20/94 6-8 ft bgs	SB02-A02 12/20/94 6-8 ft bgs
VOC's (mg/kg)					
2-Butanone	0.0041	1000	ND	0.013	0.01 J
SVOC's (mg/kg)					
Indeno(1,2,3-cd)pyrene	0.234	0.9	ND	0.066 J	ND
Benzo(a)anthracene	0.162	0.9	0.046 J	0.14 J	ND
bis(2-Ethylhexyl)phthalate	0.32	49	0.17 J	0.21	ND
Benzo(b)fluoranthene	0.188	0.9	0.078 J	0.22 J	ND
Benzo(k)fluoranthene	0.205	0.9	0.041 J	0.084 J	ND
Benzo(a)pyrene	0.162	0.66	0.047 J	0.110 J	ND
Chrysene	0.145	9	0.083 J	0.15 J	ND
Fluoranthene	0.198	2300	0.042 J	0.21 J	ND
Phenanthrene	0.165	NLE	ND	0.085 J	ND
Pyrene	0.178	1700	0.048 J	0.25 J	ND
PESTICIDES (mg/kg)					
Aroclor-1254	0.042	0.49	ND	0.17	ND
Aroclor-1260	0.042	0.49	ND	0.15	ND
alpha-Chlordane	0.002	NLE	ND	0.0084 P	ND
gamma-Chlordane	0.002	NLE	ND	0.0092	ND
4,4'-DDE	0.0037	2	0.071	0.21 P	0.0058
4,4'-DDD	0.0037	3	ND	0.087	0.0035 J
4,4'-DDT	0.0037	2	0.053	0.087	ND
METAL TOTAL (mg/kg)					
Aluminum	3.9	NLE	15700	3920	3400
Arsenic	0.35	20	31.6	3.8	1.5
Barium	0.17	700	26	36.2	21
Beryllium	0.1	1	1.7	0.14	0.32
Calcium	2.2	NLE	653	1000	851
Chromium	1.6	500	128	42.2	38.3
Colbalt	0.71	NLE	4.5	1	ND
Copper	2.2	600	7.27[1]	21.5	2
Iron	0.58	NLE	45500	8950	5930
Lead	0.4	400[2]	15.1[1]	20.7	3.3
Magnesium	9.6	NLE	3960	527	717
Manganese	0.18	NLE	120[1]	19.7	7.2
Mercury	0.49	14	ND	0.63	ND
Nickel	1.4	250	8.3	2.7	1.6
Potassium	(12.3-25.8)	NLE	10600	944	1880
Silver	0.54	110	.26[1]	7.4	ND
Sodium	3.8	NLE	56.8	28.9	13.5
Selenium	0.3	63	0.85	0.4	0.35
Thallium	0.36	2	ND	ND	0.33
Vanadium	0.53	370	59.6	20.7	21.4
Zinc	0.41	1500	55.6	40.4	11.4

Compounds exceeding NJDEP soil cleanup criteria are noted by bold numbers.
J - Indicates that the concentration value was estimated due to detection at or near the quantification limits
ND - Indicates that the compound was not detected at or below the quantification limits
NLE - No level established
Note: MDL's for metal analysis is actually the highest detection limit with potassium given as a range due to high variability.
P- The percent difference between the results from two GC columns is greater than 25%, the lower of the two values is reported

[1] Monmouth County maximum background concentrations.

[2] NJDEP criteria are referenced in Site Remediation News, Winter 1995.

Metals

As indicated in Table 4.3-8, all metals detected in site soils were found in concentrations below the NJDEP SCC, where established.

4.3.7.5 Sediment Sampling Results

The STP sediment sampling location was determined to be freshwater because the area is not tidally influenced. One sediment sample, CW6SD-1, was collected at the former outfall of the STP (Figure 4.3-11).

VOCs

VOCs were analyzed for but were not detected in site sediment samples.

SVOCs

One SVOC [bis(2-ethylhexyl) phthalate] was detected above the laboratory quantitation limit from location C6SD1. NJDEP sediment guidance values are not established for this compound. This compound is a common laboratory contaminant.

Pesticides/PCBs

Three pesticide compounds (4,4'-DDD, 4,4'-DDT, and 4,4'-DDE) were detected in concentrations exceeding the NJDEP sediment guidance criteria. However, the concentrations were found in levels below their respective background concentrations. PCBs were not detected in site sediment samples.

Metals

As indicated in Table 4.3-9, no metals were detected in concentrations greater than the NJDEP sediment guidance criteria.

4.3.7.6 Recommendations

Three compounds (4,4′-DDT, 4,4′-DDD, and 4,4′-DDE) were detected in the sediment at levels that were above the NJDEP sediment guidance criteria but below background. Soil results were below the NJDEP SCC and established maximum background.

No further action will be taken.

Table 4.3-9
Fort Monmouth - Charles Wood
Summary of Detected Compounds in Sediment
Site CW-5

COMPOUND	METHOD DETECTION LIMIT (mg/kg)	NJDEP SEDIMENT GUIDANCE * (mg/kg)	MAXIMUM DETECTED BACKGROUND CONCENTRATION (mg/kg)	ANALYTICAL RESULTS GIVEN BY WESTON SAMPLE LOCATION C6SD-1 12/1/94
SVOCs (mg/kg)				
bis-(2-Ethylhexy)phthalate	0.32	NLE	0.23	0.45
Dimethylphthalate	0.145	NLE	ND	0.40 J
Di-n-butylphthalate	0.215	NLE	0.12	0.081 J
Di-n-octyl phthalate	0.185	NLE	ND	0.11 J
PAHs (mg/kg)				
Benzo (a)anthracene	0.162	0.23	0.09	0.079 J
Benzo (b)fluoranthene	0.188	NLE	0.16	0.1 J
Chrysene	0.145	0.4	0.14	0.087
Fluoranthene	0.198	0.6	0.12	0.16 J
Phenanthrene **	0.165	0.225, 0.326	0.079	0.098 J
Pyrene	0.178	0.35	0.41	0.19 J
PESTICIDES/PCBs (mg/kg)				
4,4'-DDD	0.0042	0.002	0.015	**0.005 P**
4,4'-DDE	0.0042	0.002	0.096	**0.0067**
4,4'-DDT **	0.0042	0.003, 0.00183	0.11	**0.0029 JP**
Heptachlor epoxide	0.0021	NLE	ND	0.0042 P
METALS TOTAL (mg/kg)				
Aluminum	6.1	NLE	6660	866
Arsenic	0.35	33	5.8	0.74
Barium	0.48	NLE	45.7	9.6
Calcium	2.7	NLE	2960	509
Chromium	1.5	80	36.9	7.8
Cobalt	0.64	NLE	4.2	1.3
Copper	0.55	70	24.5	7.4
Iron	1.1	NLE	19600	6910
Lead	1.8	35	142	9.3
Magnesium	8.7	NLE	2560	320
Manganese	0.45	NLE	65.1	25.8
Potassium	186	NLE	1700	256
Sodium	3.5	NLE	271	54
Vanadium	0.66	NLE	39.5	5.4
Zinc	0.64	120	126	22.5

Compounds detected above NJDEP Sediment Guidance are bolded.

*- NOAA (1990) ER-L guidance. Values for DDE and DDD are not presented in NJDEP Sediment Quality Evaluations (1991).

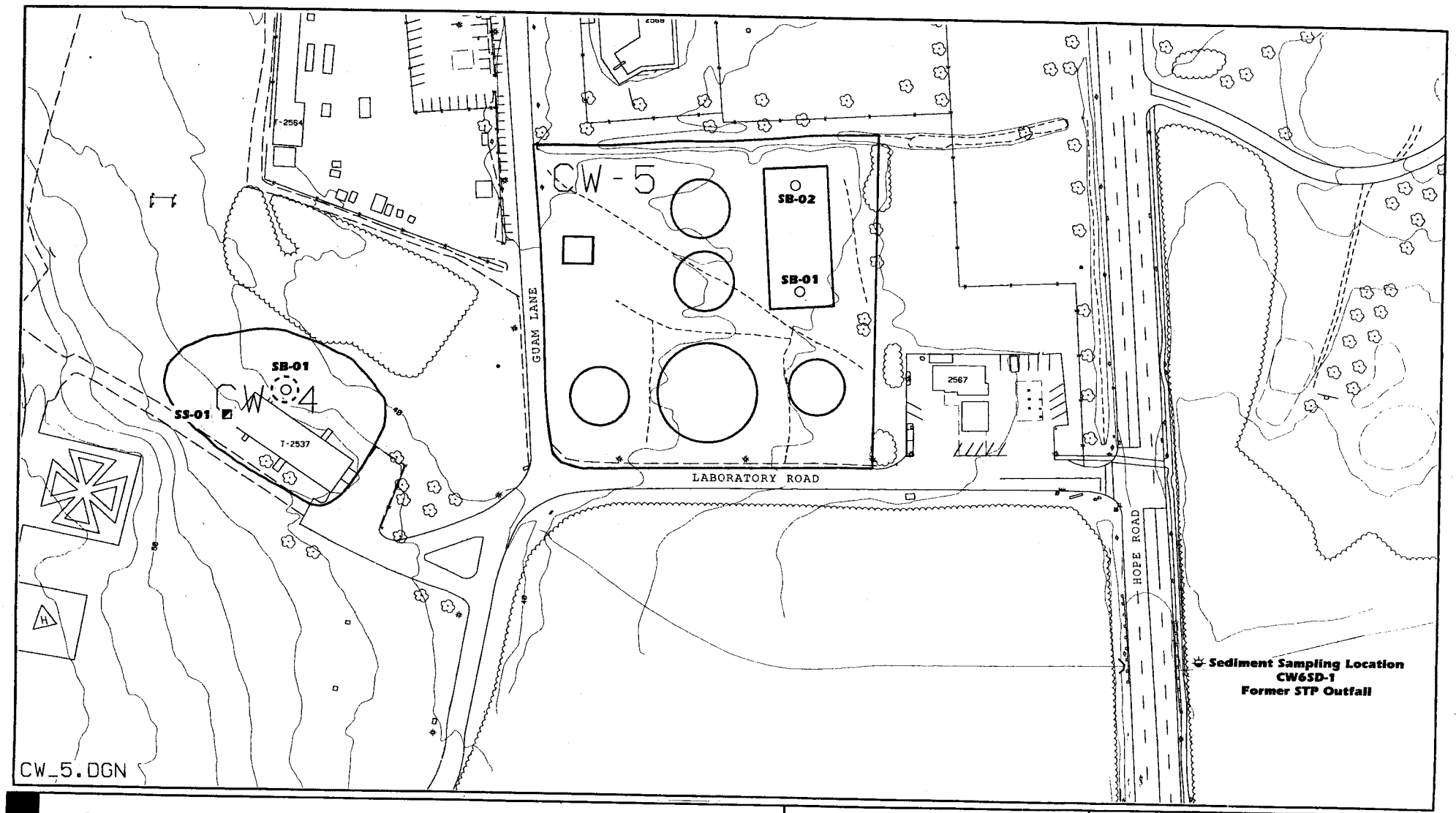
** - Standards developed using equilibrium partioning approach in accordance with NJDEP Guidance for Sediment Quality Evaluation (1991). Total organic carbon concentrations of 1% assumed based on organic carbon content detected in adjacent sample.

ND - Compound was not detected at or above the quantification limit.

NLE - No Level Established

J - Concentration was estimated due to detection at or below the quantification limit

P - The percent difference between the results from the two GC columns is greater than 25%, the lower of the two values is reported



Fort Monmouth, Main Post

FIGURE 4.3-11
SMALL ARMS RANGE (CW-4) AND FORMER SANITARY TREATMENT PLANT (CW-5) SAMPLING LOCATIONS