ACTION MEMORANDUM FOR FTMM-68

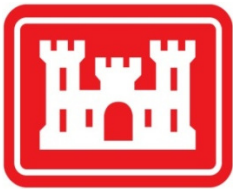
FORT MONMOUTH, OCEANPORT, MONMOUTH COUNTY, NEW JERSEY

BRAC 05 Facility
Contract W912DY-09-D-0062
Task Order: 0012, Project No. 369857

Submitted To:

U.S. Army Engineering and Support Center

Huntsville, Alabama



Prepared By:

PARSONS

401 Diamond Dr. NW, Huntsville, AL 35806

October 2018

ACTION MEMORANDUM

FOR FTMM-68

FORT MONMOUTH, NEW JERSEY

APPROVAL

This Action Memorandum presents the selected removal action for contaminated soil at FTMM-68 located at Fort Monmouth in Oceanport, Monmouth County, New Jersey. The U.S. Army is the lead agency at Fort Monmouth under the Defense Environmental Restoration Program, 10 U.S.C. § 2701, and the Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. §§ 9601 et seq., as amended (CERCLA). This Action Memorandum is consistent with CERCLA, as amended, and the National Oil and Hazardous Substances Pollution Contingency Plan, 40 CFR Part 300. This Action Memorandum will be incorporated into the Administrative Record file for Fort Monmouth, which is available for public review at the Eastern Branch of the Monmouth County Library, 1001 Route 35, Shrewsbury, New Jersey 07702. This document, presenting the results of selected removal action with a present worth cost estimate of approximately $100,000, is approved by the undersigned.

Thomas E. Lederle
Chief, BRAC Division
Department of the Army Assistant Chief of Staff Installation Management

12 October 2018
Date

1.0 STATEMENT OF BASIS AND PURPOSE

This Action Memorandum describes the selected time critical removal action (TCRA) of soil contaminated with the volatile organic compounds (VOCs) trichloroethene (TCE) and tetrachloroethene (PCE) at FTMM-68 (referred to throughout this Action Memorandum as 'the Site') at Fort Monmouth, New Jersey. The purpose of this Action Memorandum is to document the U.S. Army's decision to undertake the TCRA.

This Action Memorandum was developed in accordance with: the Defense Environmental Restoration Program (DERP), 10 United States Code (U.S.C.) Section 2701; the Comprehensive Environmental Response, Compensation, and Liability Act, 42 U.S.C. §§ 9601 et seq., as amended (CERCLA); and the National Oil and Hazardous Substances Pollution Contingency Plan (NCP), 40 Code of Federal Regulations (CFR) Part 300 (USEPA 1991). The U.S. Army is the lead agency for Fort Monmouth in accordance with CERCLA and Executive Order 12,580. The U.S. Army makes remedial decisions for Fort Monmouth in consultation with the New Jersey Department of Environmental Protection (NJDEP), the state support agency.

2.0 SITE CONDITIONS AND BACKGROUND

The location of FTMM-68 is shown on **Figure 1**. A description of the Site is provided in Section 2.1. Previous investigation activities are summarized in Section 2.2; investigative results are summarized in Section 2.3.

2.1 Site Setting and History

The Main Post (MP) of FTMM was established in 1917 as Camp Little Silver. The name of the Camp was changed shortly thereafter to Camp Alfred Vail. The initial mission of the Camp was to train Signal Corps operators for service in World War I. After the war, Camp Alfred Vail was designated as the site of the Signal Corps School. In 1925, the facility became a permanent post, and its name was changed to Fort Monmouth (FTMM). The primary mission of FTMM was to provide command, administrative, and logistical support for Headquarters, U.S. Fort Monmouth Communications and Electronics Command (CECOM) (Shaw, 2012).

FTMM-68 is located in the central portion of the MP (**Figure 1**) and encompasses former Building 700. Building 700, which was constructed in 2006, was demolished in August 2018. It was previously used for office space in connection with Army recruitment. The location of Building 700 was previously occupied by Building 565, a former dry-cleaning facility (constructed in 1965 and demolished in 2006 or prior) that used PCE as the cleaning solvent.

FTMM personnel excavated a 500-gallon solvent underground storage tank (UST) at the Site in 2011 (**Figure 2**). The tank, located at the southwestern corner of Building 700, was observed to be heavily corroded and leaking in several places. Approximately 450 gallons of liquid were removed and drummed, along with soil that appeared to be impacted by VOCs. Soil samples were collected and, based on the results, additional solvent-contaminated soil was excavated and post excavation samples were collected.

The 2011 excavation was constrained to the north due to the presence of Building 700 (**Figure 2**). It was suspected that VOC-contaminated soil was present beneath the building footprint. The purpose of this

TCRA is to remove contaminated soil within the top 10 feet of soil that may be present both north of the tank excavation, and to some extent to the east along the building footing, which was not accessible during the 2011 excavation. To facilitate groundwater treatment efforts, Building 700 was demolished and removed in 2018.

2.2 Summary of Investigation Activities

Six post-excavation soil samples were collected in April 2011 from the sidewalls and bottom of the UST excavation, and along the buried piping run. The excavation depth was approximately 7.5 ft bgs. Soil samples were analyzed for VOCs and tentatively identified compounds (TICs). A sample from the bottom center of the excavation (7.5 ft bgs) contained PCE at a concentration of 23,889 milligrams per kilogram (mg/kg), which exceeded the NJDEP Residential Direct Contact Soil Remediation Standard (RDCSRS), Non-Residential Direct Contact Soil Remediation Standard (NRDCSRS), and Impact to Ground Water (IGW) Soil Screening Level (SL) for PCE of 43 mg/kg, 1,500 mg/kg, and 0.005 mg/kg, respectively. Additionally, one soil sample collected from the northeast corner of the excavation near the piping at a depth of 2.5 ft bgs contained PCE at 20.4 mg/kg (U.S. Army, 2011), also above the IGW SL standard.

Additional soil excavation was conducted at the Site in May 2011. PCE concentrations in two soil samples collected at the north and south ends of the May 2011 excavation (approximately 9 ft bgs) were lower than the April 2011 sample results (0.26 and 1.58 mg/kg, respectively).

In August 2011, FTMM installed two paired, 2-inch-diameter polyvinyl chloride (PVC) monitoring wells adjacent to the former UST location at Building 700 (565MW01 screened 5 to 15 ft bgs, and 565MW01D screened 18 to 23 ft bgs). No geologic logs or construction diagrams are available for either well. These wells were not sampled until August and September 2013, when a baseline groundwater sampling event was performed that included the two source area wells (565MW01 and 565 MW02). Subsequent quarterly monitoring was performed through September 2015, during which time the two wells were sampled for VOCs eight times. Passive diffusion bag samplers were used; field parameters were not collected. PCE was detected at concentrations exceeding the NJDEP Ground Water Quality Standards (GWQS) of 1 microgram per liter (µg/L). Other VOCs detected in groundwater at concentrations exceeding the respective GWQS included TCE, cis-1,2-dichloroethene (DCE), 1,1-DCE, and vinyl chloride (Parsons, 2014 and 2015).

In September 2015, an RI was initiated at FTMM-68. RI activities included the installation of soil borings, soil sample collection, downhole membrane interface probe (MIP)/hydraulic profiling tool (HPT) surveys, groundwater monitoring well installation, well development and groundwater sampling, and slug testing. The RI was performed in two phases. Phase 1 activities were performed from September 2015 to November 2016, and Phase 2 activities were performed from November 2016 to April 2017. Phase 1 results were used to determine the scope of Phase 2 activities.

Soil samples collected in September 2015 had PCE concentrations exceeding the NJDEP RDCSRS and the USEPA Regional Screening Level (RSL) for residential soil. TCE also exceeded the USEPA residential RSL and there were numerous exceedances of NJDEP and USEPA IGW SL criteria (**Table 1**).

In January 2017, 46 additional soil samples were collected from nine soil borings (FTMM-68-SB5 through -SB13) that were located based on MIP survey results (**Figure 2**). Soil samples were analyzed for VOCs and TICs. PCE was detected at a maximum concentration of 6.9 mg/kg.

Groundwater samples were collected at FTMM-68 from August 2013 to April 2017, including the quarterly sampling described above for two wells from 2013 to 2015, and from additional monitor wells installed at the Site from 2016 through 2017. During these sampling events, 15 VOCs exceeded NJDEP GWQS and/or USEPA Tapwater RSLs in at least one sample, with PCE being the primary constituent. A groundwater plume of PCE concentrations exceeding 10 µg/L (which is 10 times the GWQS) extends an estimated 700 ft to the east from the former solvent UST, in the dominant direction of advective groundwater flow. The eastern, northern, southern, and vertical extents of PCE exceeding the 1 µg/L NJDEP GWQS have not been fully defined by the existing monitoring well network. MIP, soil quality, and groundwater quality data indicate that the plume has migrated vertically downward as it migrated to the east, with the highest concentrations east of the former UST residing in the Hornerstown Formation, and much lower concentrations in the overlying Cape May Formation Unit 2 and underlying Tinton Formation. PCE is the dominant chlorinated VOC throughout the plume; the highest concentrations of biodegradation products (TCE, DCE, VC) are present in the source area near the adjacent former gasoline station (Site FTMM-53). Downgradient (east) of the source area, concentrations of degradation products are relatively low to non-detect. Contaminants of Potential Concern (COPCs) in groundwater include the VOCs PCE, TCE, cis-1,2-DCE, VC, chloroform, MTBE, naphthalene, 1,2,3-trichlorobenzene, 1,2,4-trimethylbenzene, 1,2-dichloroethane, and benzene. A Remedial Investigation (RI) Report will be prepared that will summarize the investigation results to date and the results of this TCRA.

2.3 Investigation Results

Soil sampling results for VOCs obtained in 2011 and 2015 through 2017 were compared to current (September 2017) NJDEP criteria in **Table 1** and to USEPA criteria in **Table 2.** Soil and groundwater sampling locations are shown on **Figure 2**.

3.0 THREATS TO PUBLIC HEALTH, WELFARE, AND THE ENVIRONMENT

Concentrations of VOCs in soil were compared to USEPA RSLs to evaluate the potential effects of contaminants in soil on human health and the environment. The results of these comparisons were used to evaluate the need for soil removal and to establish a baseline to evaluate the effectiveness of the proposed removal action.

3.1 Risk Assessment Evaluation

A screening evaluation was performed to evaluate the need for soil removal at the Site to reduce the threat to human health. **Table 3** presents the maximum detected concentrations of COPCs within the top 10 feet of soil at the Site. These maximum concentrations exceed the USEPA Residential RSLs for several analytes, indicating a potential threat to human health.

The Baseline Ecological Evaluation (BEE; Shaw, 2012) concluded that constituents at the MP of FTMM (including the Site) were unlikely to have a deleterious effect on sensitive ecological receptors or habitats, and additional ecological assessments were not warranted or recommended. Potentially complete terrestrial and aquatic pathways for ecological receptors are incomplete at the Site due to lack of viable habitat.

Table 3. Maximum COPC Concentrations in Soil

COPC	Maximum Concentration (mg/kg)	USEPA RSL[1] (mg/kg)
PCE	23,889	8.1
TCE	17,418	0.41
cis-1,2-DCE	0.27 J[2]	16
VC	0.023 J	0.059

1. USEPA RSLs for Residential Soil, based on target risk of 1E-06 and target hazard quotient of 0.1. Effective June 2017 (USEPA, 2017).
2. J = Analyte detected between method detection limit (MDL) and practical quantitation limit (PQL).

4.0 REGULATORY FRAMEWORK AND ENDANGERMENT DETERMINATION

This section summarizes the regulatory framework for the TCRA and presents the objectives of the removal action.

4.1 Regulatory Framework

CERCLA provides the President authority to respond to releases of hazardous substances, including removal actions (42 U.S.C. Section 9604(a)). Executive Order 12580 Section 2(d) delegates the President's authority under various CERCLA sections, including Section 9604(a), to the Secretary of the U.S. Department of Defense (DoD). Section 300.415 of the NCP further specifies the structure and requirements for removal actions. As the lead agency, the U.S. Army has decided to implement the removal action in this TCRA in accordance with CERCLA and the NCP. The NJDEP acts as the state support agency.

4.1.1 Justification of the Time Critical Removal Action

A removal action is warranted pursuant to the NCP when the lead agency makes the determination that there is a threat to public health or welfare or the environment (40 CFR 300.415(b)(1)). Of the listed factors in the NCP, the following two factors in Section 300.415(b)(2) of the NCP (40 CFR 300.415) were directly applicable to the Site and were used in determining the appropriateness of a TCRA for the contaminant concentrations in soil at the Site:

Other situations or factors that may pose threats to public health or welfare of the United States or the environment. (40 CFR 300.415(b)(2)(viii)).

While VOCs are present in soil at the Site at concentrations that could pose a threat to human health, this TCRA is being performed to accelerate the transfer of the property for beneficial reuse and to remove the environmental liability associated with migration of contaminants, such as the COPCs listed in Table 3, from the Site. The NCP also states:

If the lead agency determines that a removal action is appropriate, actions shall, as appropriate, begin as soon as possible to abate, prevent, minimize, stabilize, mitigate, or eliminate the threat to public health or welfare of the United States or the environment. (40 CFR 300.415(b)(3)).

The U.S. Army has determined that a TCRA is appropriate for the Site to remove a source of VOC contamination in soil and the long-term environmental liability at the Site. Because PCE was likely present beneath the Building 700 slab, and since the Building 700 slab has now been removed to address

groundwater contamination, there is significant potential for migration of PCE to groundwater by infiltration of precipitation through the soils below the former building location. While the US Army is also pilot testing groundwater remedies, this unintended source to groundwater contamination below the former Building 700 will complicate the groundwater Feasibility Study (FS) testing, as well as groundwater remediation and long-term transfer of property.

4.1.2 Applicable or Relevant and Appropriate Requirements

The TCRA described in this Action Memorandum complies with applicable or relevant and appropriate requirements (ARARs). In accordance with the NCP (40 CFR § 300.415(i)), onsite removal actions conducted under CERCLA are required to meet ARARs "to the extent practicable." The U.S. Army consulted with NJDEP to confirm that NJDEP's Residential Direct Contact Soil Remediation Standards (RDCSRS) are applicable to this removal action. The Army then compared the NJ RDCSRS to the USEPA Regional Removal Management Levels (RMLs) for the unlimited reuse scenario for each contaminant listed below. The applicable requirement is the more stringent of the two values (in bold below). The applicable requirement for each COPC is:

COPC	NJ RDCSRS (mg/kg) [1/]	USEPA RMLs Residential Soil (mg/kg) [2/]
PCE	**43**	81
TCE	**3**	4.1
cis-1,2-DCE [3/]	230	**160**
VC	**0.7**	5.9

Notes:

[1/] The NJDEP Criteria refers to the NJDEP's Sept 18, 2017 Remediation Standards

[2/] The USEPA RMLs refer to the USEPA's May 2018 Summary Table (USEPA, 2018).

[3/] The USEPA RML for *cis*-1.2-DCE is more stringent than the NJDEP criteria and so will be used as the applicable requirement.

The TCRA described in this Action Memorandum also complies with applicable requirements for offsite actions (i.e., Resource Conservation and Recovery Act [RCRA] hazardous waste transportation and offsite treatment requirements prior to land disposal as required by the RCRA land disposal restrictions).

4.2 Endangerment Determination

Actual or threatened releases of hazardous substances from the Site, if not addressed by implementing the response action selected in this Action Memorandum, may result in unacceptable exposures to contaminants and present a threat to human health. The FTMM Reuse and Redevelopment Plan indicates that the anticipated future land use in the vicinity of FTMM-68 is a combination of institutional and open space (EDAW, 2008).

4.3 Removal Action Objectives

The removal action objective (RAO) for the Site is to remove VOC concentrations in soil that pose a threat to human health and the environment. Since the building was recently (July 2018) removed for the groundwater treatment pilot test, there is an increased risk of further contamination of groundwater from infiltration of precipitation through the contaminated soil left beneath the building. With the building and floor slab removed, the contamination remaining in the source area could migrate to groundwater by infiltration of precipitation.

5.0 DESCRIPTION OF PROPOSED ACTION

The Army evaluated the two alternatives for the Site using the effectiveness, implementability, and cost selection criteria established by the NCP. The relative performances of the alternatives were evaluated in the following comparative analysis. Within the criteria of effectiveness, protecting human health and the environment as well as compliance with ARARs are threshold criteria that must be met for the alternative to be selected. Other aspects of effectiveness, implementability and cost are considered balancing criteria to be evaluated in the comparative analysis. The alternatives considered for the Site were:

- Alternative 1 – No Action
- Alternative 2 – Soil Removal and Offsite Disposal.

Both alternatives were evaluated against the CERCLA remedial criteria of effectiveness, implementability, and cost.

Alternative 1 is cost-effective and implementable, however it is not protective of human health and the environment, does not comply with ARARs, does not provide short- or long-germ effectiveness, and would not reduce the toxicity, mobility, or volume of contamination at the Site. The removal of the Building 700 slab increased the potential for migration of PCE to groundwater by infiltration of precipitation through the soils below the former building location. Therefore, additional and more extensive groundwater remediation would be required in the future if Alternative 1 is implemented, thereby incurring longer groundwater remediation timelines and increased costs.

Alternative 2 satisfied the threshold criteria of protecting human health and the environment, and Alternative 2 also complied with ARARs and was effective and implementable. Therefore, Alternative 2 was assessed for cost. Based on the comparative analysis of effectiveness, implementability, and cost, the U.S. Army's selected alternative was **Alternative 2 – Soil Removal and Offsite Disposal.** Protection of human health and the environment is achieved by the removal of contamination in soil. Soil removal is more cost effective in the long term compared to institutional controls alone because it significantly reduces the potential for groundwater contamination due to removal of VOC-impacted soil, which is acting as a source of contamination to groundwater.

The selected removal action for the TCRA consists of removing approximately 159 cubic yards of VOC-contaminated soil from an excavation with approximate dimensions of 20 feet wide by 30 feet long at the ground surface, and 10 feet deep (see **Figure 3)**. Removal action activities will include site preparation, excavation of contaminated soil, offsite transportation and disposal, and site restoration.

Site preparation will include staking the excavation location and identifying locations of utilities. Excavated soil will be removed, sampled (for characterization analyses), and stockpiled prior to offsite disposal. Verification soil samples will be collected from the excavation bottom and sidewalls prior to backfilling to document VOC concentrations in the soils remaining in place and ensure removal action goals are met. Clean backfill will be compacted in lifts and graded to maintain positive drainage. The areas impacted during the removal action will be restored (typically grass seed and straw in previously vegetated areas). Characterization, transportation, and offsite disposal will comply with all appropriate Federal and state laws.

The ability of this action to meet the criteria of effectiveness, implementability, and cost is described below.

5.1 Effectiveness

The proposed action for the Site would be effective at providing short- and long-term protection. This action is permanent because a significant source of soil and groundwater contamination will be removed, thus significantly reducing the potential for additional groundwater contamination. This action will remove VOC-contaminated soil that will otherwise be subject to infiltration of precipitation from within the former Building 700 footprint, resulting in migration of VOCs to groundwater. This alternative will comply with the ARARs in Section 4.1.2 because contaminated soil with VOC concentrations in excess of the NJDEP RDCSRS or EPA removal action levels, as applicable, will be removed. Risks to workers during the removal action will be addressed through engineering controls and by implementing approved health and safety practices.

5.2 Implementability

The removal action has been demonstrated to be both technically and administratively implementable. The soil excavation employs construction practices that are routinely implemented. All services and materials required are readily available. This alternative will likely be acceptable to the community because the soil removal will achieve the RAO.

5.3 Contribution to Remedial Performance

The selected removal action will address Site contamination to meet the RDCSRS identified in Section 4.1.2 and will reduce the potential for groundwater contamination due to infiltration through VOC-impacted soil currently in place at the Site. Following the completion of the removal action, the Site will continue on in the RI Phase.

5.4 Project Schedule

The proposed removal action will be performed and completed in approximately three months (September to November 2018). This is the best time to perform this action as weather impacts will not adversely affect excavation activities.

5.5 Cost

The estimated cost of the TCRA is approximately $100,000. A breakdown of the costs is provided in **Table 4**. The costs include development of project-specific work plans, site preparation, soil excavation, transportation and disposal, and site restoration.

Table 4. Estimated Costs for Alternative 2: Soil Removal and Offsite Disposal

Phase Name	Year 1
Work Plan	$5,000
Soil Removal	$55,000
Transportation and Disposal	$20,000
Restoration	$5,000
U.S. Army Corps Costs	$15,000
Present Worth Total Cost:	$100,000

6.0 EXPECTED CHANGE IN THE SITUATION SHOULD THE ACTION BE DELAYED OR NOT TAKEN

Delaying the implementation of the proposed removal action or taking no action could result in potential threats to public health and the environment, as well as delays in the redevelopment of the property and delays in transfer of the Site from the U.S. Army to the FMERA. If left in place, VOC-impacted soil currently present below the former Building 700 footprint could contribute to groundwater contamination. Failure to take this action would result in extending the schedule for groundwater remediation resulting in additional liability for the U.S. Army.

7.0 PUBLIC INVOLVEMENT AND PARTICIPATION

This Action Memorandum will be made available for a 30-day public review and comment period from Friday October 26 to Monday November 26 and will be posted on the FTMM Environmental Restoration Program website (http://www.pica.army.mil/ftmonmouth/) and placed in the FTMM Environmental Restoration Public Information Repository (the Administrative Record) at the following location:

Monmouth County Library, Eastern Branch
1001 Route 35, Shrewsbury, NJ
Phone: (732) 683-8980
Hours: Mon-Thurs, 9am-9pm; Fri-Sat, 9am-5pm; and Sun, 1pm-5pm

Appendix A includes the public press release regarding the TCRA and the public notice requesting comments.

8.0 CONCLUSIONS

The soil removal and backfill alternative selected as the removal action for the VOC-contaminated soil at the Site best meets the RAO and NCP criteria because it:

- Is technically feasible based on commonly used construction techniques and demonstrated proven approaches;
- Reduces the potential for additional groundwater contamination due to infiltration through VOC-impacted soil currently in place in the area beneath former Building 700;

- Reduces the groundwater remediation schedule and the U.S. Army's long-term environmental liabilities;
- Is administratively feasible and eliminates the requirement to conduct CERCLA 5-Year Reviews;
- Provides a high degree of long-term public health and environmental protection through the removal of the source of the contaminated soil;
- Complies with chemical- and action-specific ARARs;
- Imposes no restrictions on future use of the Site;
- Meets the evaluation criteria of effectiveness, implementability, and cost; and
- Facilitates transfer of the property to the FMERA.

9.0 REFERENCES

EDAW, Inc. 2008. Fort Monmouth Reuse and Redevelopment Plan, Final Plan. Prepared for Fort Monmouth Economic Revitalization Planning Authority. August 22.

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USEPA, 2017. Regional Screening Levels Summary Table (based on target risk of 1E-06 and target hazard quotient of 0.1). June. Available at: https://semspub.epa.gov/work/03/2245071.pdf.

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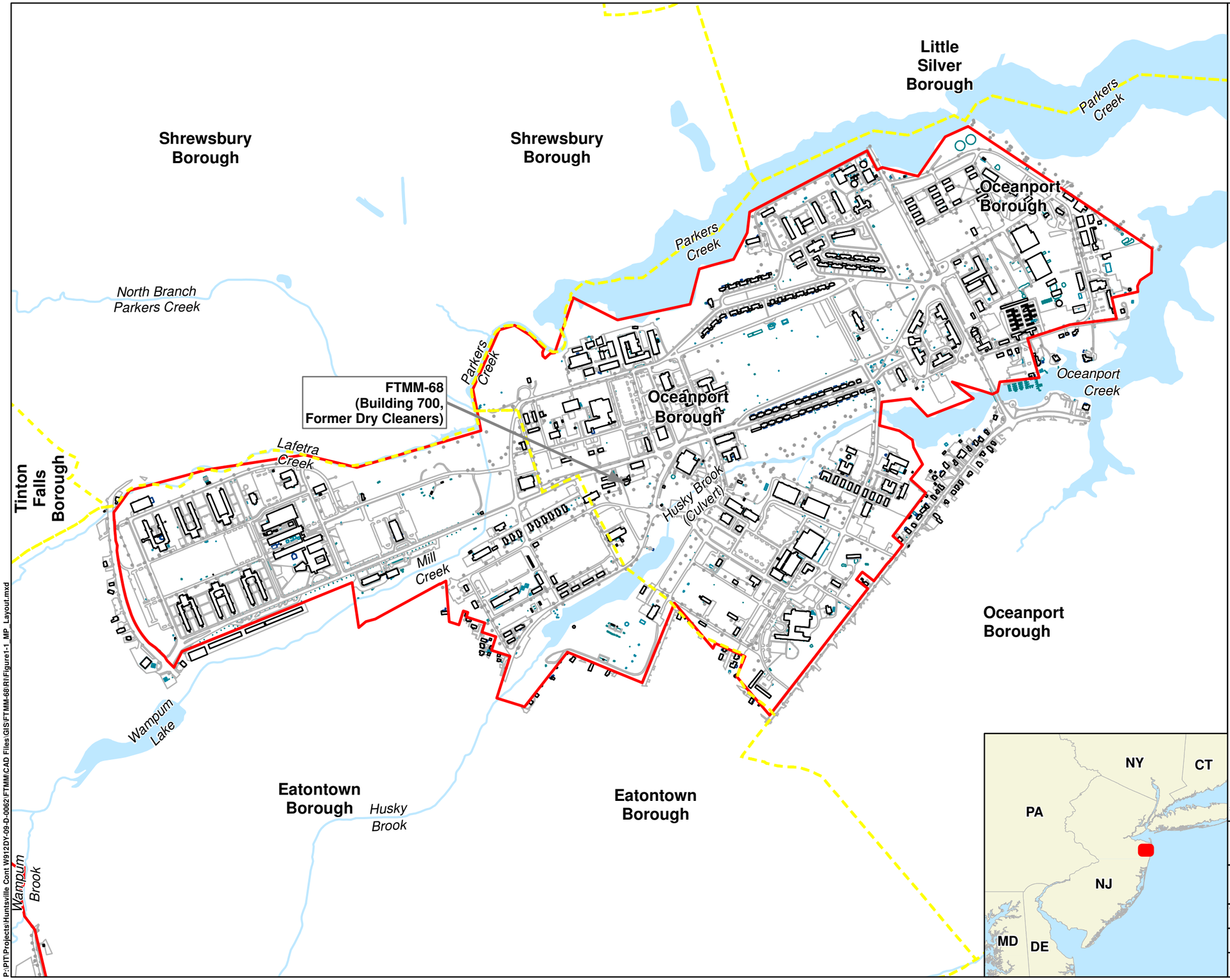
Figure 1

FTMM-68 Site Location



LEGEND:

- Surface Water Feature
- Municipal Boundary
- Installation Boundary

N

1 inch = 1,000 feet

0 500 1,000 2,000 Feet

Source: Bing Maps online imagery; ESRI Data and Maps 2011; USGS NHD.

PARSONS 401 Diamond Drive NW, Huntsville AL	**Fort Monmouth** **New Jersey**

FTMM-68 SITE LOCATION

CREATED BY: RR	REVIEWED BY: KW
DATE: JUN. 2017	FIGURE NUMBER: FIGURE 1.2
PROJECT NUMBER: 748810-02180	FILE: Figure1-1_MP_Layout.mxd

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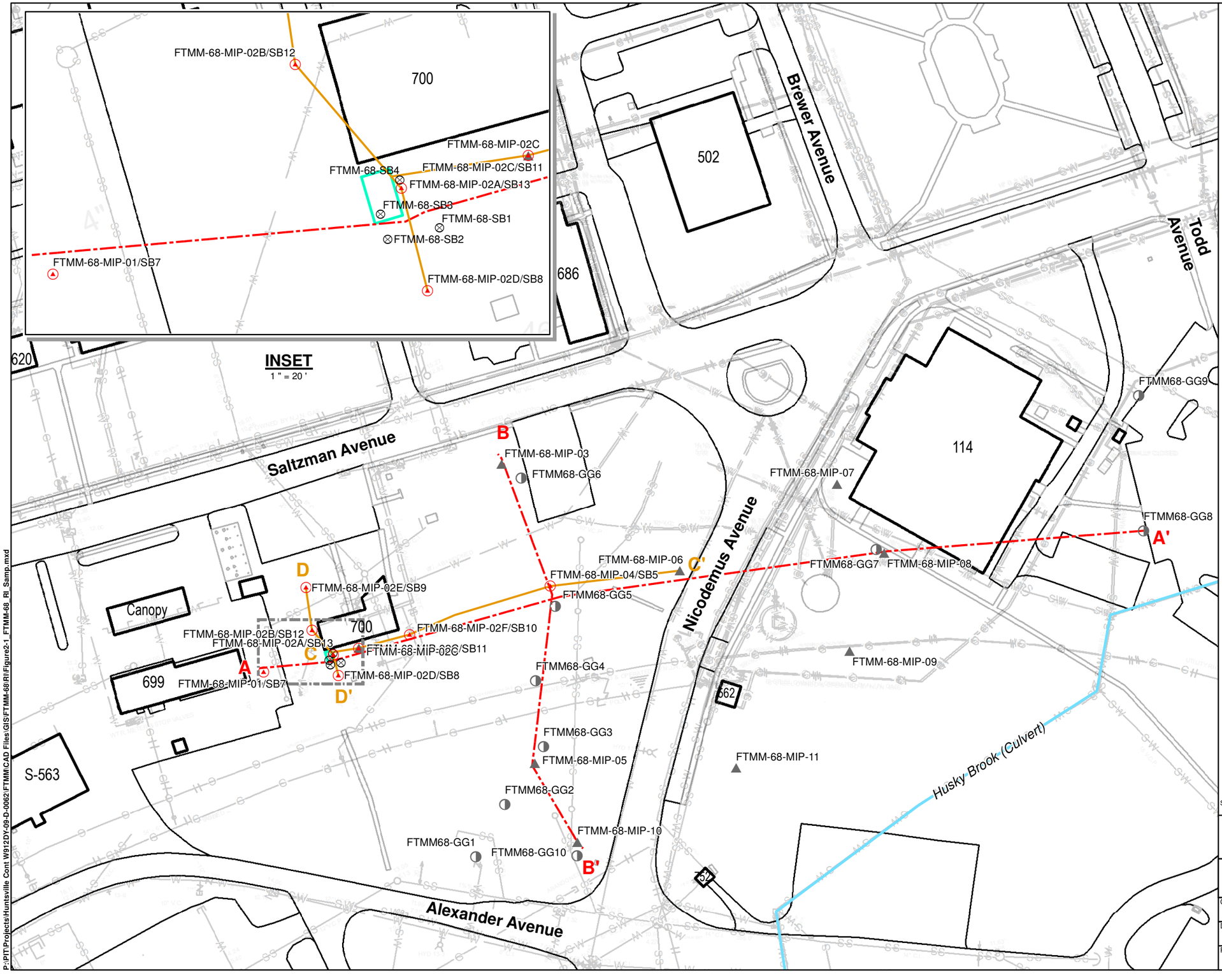
Figure 2

FTMM-68 Soil Boring, MIP/HPT, and Groundwater Grab Sample Locations



LEGEND:

- Phase 2 MIP/HPT (2016) & Soil Boring (2017) Location
- Phase 2 MIP/HPT Location (2016)
- Phase 1 Groundwater Grab Sample (2015)
- Phase 1 Soil Boring (2015)
- W Water Line
- S Sanitary Sewer Line
- SW Storm Sewer Line
- G Gas Line
- UST Excavation Footprint
- Geologic Cross-Section Line (Figures 3.1 & 3.2)
- MIP/ECD Cross-Section Line (Figures 4.1 & 4.2)

NOTES:

1. MIP/HPT - Membrane Interface Probe/Hydraulic Profiling Tool
2. ECD - Electron Capture Detector

N

1 inch = 100 feet

0 50 100 200 Feet

Source: FTMM Supplied CAD

PARSONS 401 Diamond Drive NW, Huntsville AL	**Fort Monmouth** **New Jersey**

FTMM-68 SOIL BORING, MIP/HPT, AND GROUNDWATER GRAB SAMPLE LOCATIONS

CREATED BY: RR	REVIEWED BY: KW
DATE: NOV. 2017	FIGURE NUMBER: FIGURE 2
PROJECT NUMBER: 748810-02180	FILE: Figure2-1_FTMM-68_RI_Samp.mxd

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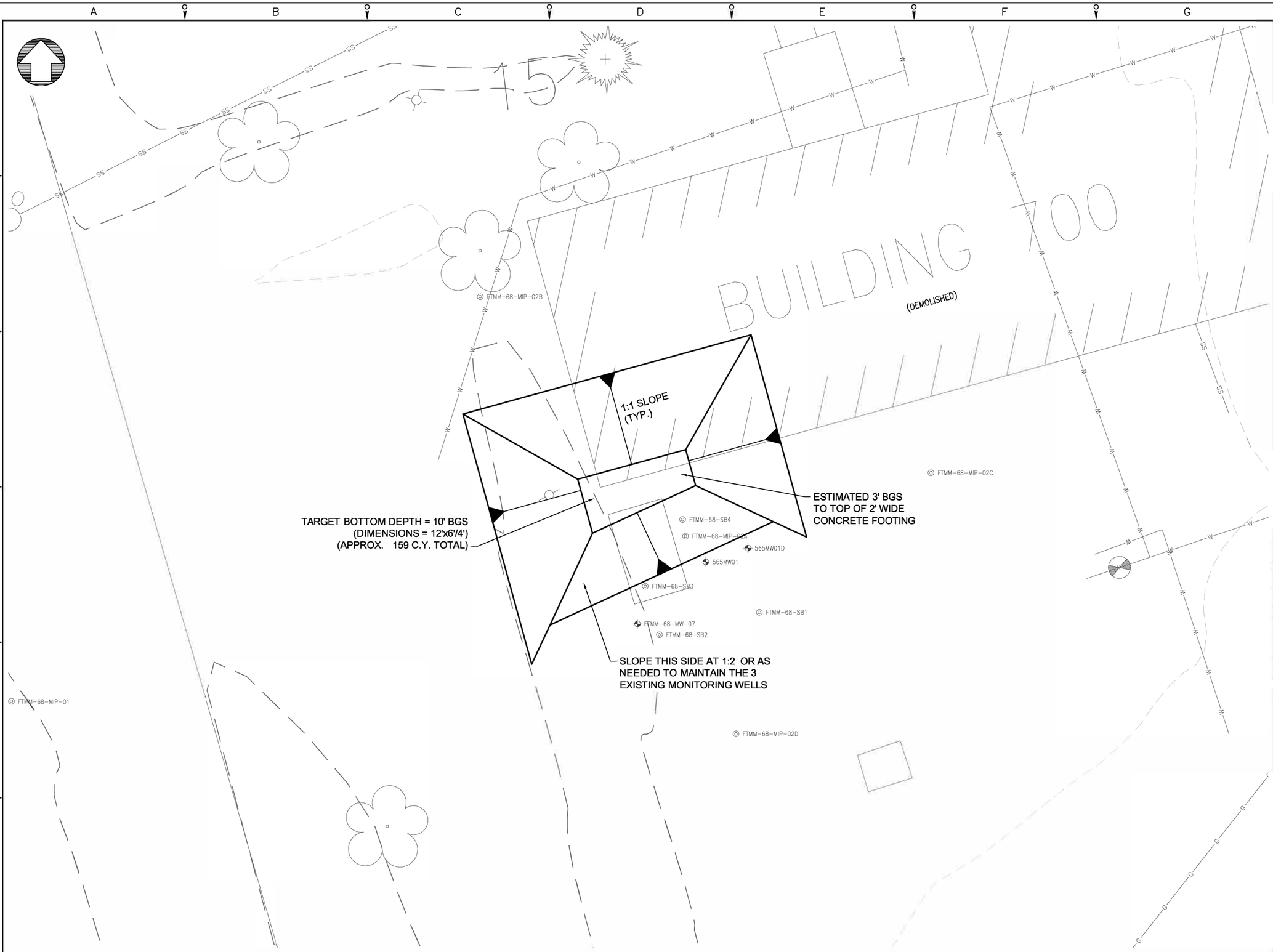
Figure 3

FTMM-68 Excavation Plan



NOTES:

1. EXISTING MONITORING WELLS TO BE PROTECTED FROM DAMAGE.

LEGEND:

- PROPOSED EXCAVATION
- PREVIOUS SAMPLE LOCATION
- EXISTING MONITORING WELL (SEE NOTE 1)

5 2.5 0 5 10

SCALE: 1" = 10'

DRAFT

NOT FOR CONSTRUCTION

NO.	DESCRIPTION	DATE	DRAWN	CHK'D	APPV'D
A	ISSUED FOR COMMENT	08/13/18	RR	KF	CG

DRAWN BY	RR	DATE 08/13/18
CHECKED BY		DATE
APPROVED BY		DATE
PROJECT MGR.		DATE

STAMP

PARSONS
ENVIRONMENT & INFRASTRUCTURE GROUP INC.

OFFICE
401 DIAMON DR. NW
HUNTSVILLE, AL 35806
(256) 837-5200

JOB 110006

WBS 06035

PROJECT TITLE

FORT MONMOUTH
OCEANPORT, NEW JERSEY
BUILDING
DEMOLITION

DRAWING TITLE

FTMM-68
EXCAVATION PLAN

SCALE 1" = 10'

DRAWING NO. FIGURE 3

REV. A

FILE: P:\PIT\PROJECTS\HUNTSVILLE CONT W912DY-09-D-0062\FTMM\CAD FILES\GIS\FTMM-68\SOIL REMOVAL\FIGURE 1.DWG, DATE: 08/14/2018 08:05:01AM, p0018397

Table 1

Detected Soil Analytes and Comparison to NJDEP Soil Criteria

TABLE 1
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP CRITERIA
SITE FTMM68
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Solvent UST Excavation									FTMM-68-SB1		
Sample ID				565 Duplicate	565-A North Wall	565-B South Wall	565-C East Wall	565-D West Wall	565-E Bottom	565-F Piping	565-PX10	565-PX11	FTMM-68-SB1-1.5-2.0	FTMM-68-SB1-20.5-21.0	FTMM-68-SB1-11.0-11.5
Depth (bgs)				7-7.5	7-7.5	7-7.5	7-7.5	7-7.5	7-7.5	2-2.5	9-9.5	9-9.5	1.5-2	20.5-21	11-11.5
Sample Date				4/9/2011	4/9/2011	4/9/2011	4/9/2011	4/9/2011	4/9/2011	4/9/2011	5/24/2011	5/25/2011	9/16/2015	9/16/2015	9/17/2015
Volatile Organic Compounds (mg/kg)															
1,1,1,2-Tetrachloroethane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,1,1-Trichloroethane	160,000	NLE	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,1,2,2-Tetrachloroethane	1	3	0.007	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,1,2-Trichloroethane	2	6	0.02	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,1-Dichloroethane	8	24	0.2	NA	NA	NA	NA	NA	NA	NA	ND	ND	< 0.0048	< 0.0063	< 0.0067
1,1-Dichloroethene	11	150	0.008	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,1-Dichloropropene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,2,3-Trichlorobenzene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,2,3-Trichloropropane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,2,4-Trichlorobenzene	73	820	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,2,4-Trimethylbenzene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,2-Dibromo-3-chloropropane	0.08	0.2	0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,2-Dibromoethane	0.008	0.04	0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,2-Dichlorobenzene	5,300	59,000	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,2-Dichloroethane	0.9	3	0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,2-Dichloropropane	2	5	0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,3,5-Trimethylbenzene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,3-Dichlorobenzene	5,300	59,000	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,3-Dichloropropane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,4-Dichlorobenzene	5	13	2	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
2,2-Dichloropropane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
2-Chlorotoluene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Acetone	70,000	NLE	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.013**	**0.095**	**0.013**
Benzene	2	5	0.005	NA	NA	NA	NA	NA	NA	NA	ND	ND	< 0.0048	< 0.0063	< 0.0067
Bromobenzene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Bromochloromethane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Bromodichloromethane	1	3	0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Bromoform	81	280	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Carbon tetrachloride	2	4	0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Chlorobenzene	510	7,400	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Chlorodibromomethane	3	8	0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Chloroethane	220	1,100	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Chloroform	0.6	2	0.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Cis-1,2-Dichloroethene	230	560	0.3	< 293.81	< 0.281	**0.08 J**	**0.16 J**	< 0.199	< 1084.447	< 1.107	ND	ND	**0.0011 J**	**0.08**	**0.011**
Cis-1,3-Dichloropropene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Cymene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Dichlorodifluoromethane	490	230,000	39	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Ethyl benzene	7,800	110,000	13	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Hexachlorobutadiene	6	25	0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Isopropylbenzene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Meta/Para Xylene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0095	< 0.013	< 0.013
Methyl bromide	25	59	0.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Methyl butyl ketone	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Methyl chloride	4	12	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Methyl ethyl ketone	3,100	44,000	0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	**0.016**	< 0.0067
Methyl isobutyl ketone	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Methyl Tertbutyl Ether	110	320	0.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Methylene chloride	46	230	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Naphthalene	6	17	25	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
n-Butylbenzene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Ortho Xylene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
p-Chlorotoluene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Propylbenzene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
sec-Butylbenzene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Styrene	90	260	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Tert Butyl Alcohol	1,400	11,000	0.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.095 UJ	< 0.13 UJ	< 0.13 UJ
tert-Butylbenzene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Tetrachloroethene	43	1,500	0.005	**88.41 J**	**1.02**	**0.36**	**0.6**	< 0.199	23,889	**0.77 D**	**1.58**	**0.26**	**0.024**	**28 D**	**18 D**
Toluene	6,300	91,000	7	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Trans-1,2-Dichloroethene	300	720	0.6	NA	NA	NA	NA	NA	NA	NA	ND	ND	< 0.0048	**0.0012 J**	< 0.0067
Trans-1,3-Dichloropropene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Trichloroethene	3	10	0.01	17,418 D	< 0.281	< 0.221	< 0.199	< 0.199	< 1084.447	21.41 D	ND	ND	**0.0013 J**	**0.16**	**0.0082**
Trichlorofluoromethane	23,000	340,000	34	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Vinyl chloride	0.7	2	0.005	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
TIC VOCs (mg/kg)															
2,3-Dimethylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl acetate	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIC VOCs (mg/kg)															
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**4.5 J**	NA

TABLE 1
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP CRITERIA
SITE FTMM68
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	FTMM-68-SB2			FTMM-68-SB3			FTMM68-SB05		
Sample ID				**FTMM-68-SB2-1.5-2.0**	**FTMM-68-SB2-6.0-6.5**	**FTMM-68-SB2-16.0-16.5**	**FTMM-68-SB3-12.5-13.0**	**FTMM-68-SB3-22.5-23.0**	**FTMM-68-SB3-24.0-24.5**	**FTMM-68-SS-SB5-22.0-23.0**	**FTMM-68-SS-SB5-24.0-24.5**	**FTMM-68-SS-SB5-34.0-34.5**
Depth (bgs)				**1.5-2**	**6-6.5**	**16-16.5**	**12.5-13**	**22.5-23**	**24-24.5**	**22-23**	**24-24.5**	**34-34.5**
Sample Date				**9/17/2015**	**9/17/2015**	**9/17/2015**	**9/17/2015**	**9/17/2015**	**9/17/2015**	**1/3/2017**	**1/3/2017**	**1/3/2017**
Volatile Organic Compounds (mg/kg)												
1,1,1,2-Tetrachloroethane	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
1,1,1-Trichloroethane	160,000	NLE	0.3	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
1,1,2,2-Tetrachloroethane	1	3	0.007	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
1,1,2-Trichloroethane	2	6	0.02	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
1,1-Dichloroethane	8	24	0.2	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
1,1-Dichloroethene	11	150	0.008	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
1,1-Dichloropropene	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
1,2,3-Trichlorobenzene	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
1,2,3-Trichloropropane	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
1,2,4-Trichlorobenzene	73	820	0.7	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
1,2,4-Trimethylbenzene	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
1,2-Dibromo-3-chloropropane	0.08	0.2	0.005	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0015	< 0.0013
1,2-Dibromoethane	0.008	0.04	0.005	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
1,2-Dichlorobenzene	5,300	59,000	17	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
1,2-Dichloroethane	0.9	3	0.005	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
1,2-Dichloropropane	2	5	0.005	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
1,3,5-Trimethylbenzene	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
1,3-Dichlorobenzene	5,300	59,000	19	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
1,3-Dichloropropane	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
1,4-Dichlorobenzene	5	13	2	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
2,2-Dichloropropane	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
2-Chlorotoluene	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Acetone	70,000	NLE	19	< 0.53	**0.018**	< 0.57	< 9.7	< 0.42	< 0.61	NA	**0.0063**	**0.0061**
Benzene	2	5	0.005	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Bromobenzene	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Bromochloromethane	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Bromodichloromethane	1	3	0.005	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Bromoform	81	280	0.03	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Carbon tetrachloride	2	4	0.005	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Chlorobenzene	510	7,400	0.6	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Chlorodibromomethane	3	8	0.005	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Chloroethane	220	1,100	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0015	< 0.0013
Chloroform	0.6	2	0.4	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Cis-1,2-Dichloroethene	230	560	0.3	**0.27 J**	**0.022**	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Cis-1,3-Dichloropropene	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Cymene	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Dichlorodifluoromethane	490	230,000	39	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Ethyl benzene	7,800	110,000	13	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Hexachlorobutadiene	6	25	0.9	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Isopropylbenzene	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Meta/Para Xylene	NLE	NLE	NLE	< 1.1	< 0.0098	< 1.1	< 19	< 0.83	< 1.2	NA	< 0.0012	< 0.0011
Methyl bromide	25	59	0.04	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Methyl butyl ketone	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0029	< 0.0026
Methyl chloride	4	12	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Methyl ethyl ketone	3,100	44,000	0.9	< 0.53	**0.0028 J**	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0029	< 0.0026
Methyl isobutyl ketone	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0029	< 0.0026
Methyl Tertbutyl Ether	110	320	0.2	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Methylene chloride	46	230	0.01	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Naphthalene	6	17	25	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	**0.0003 J**	< 0.0005
n-Butylbenzene	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Ortho Xylene	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
p-Chlorotoluene	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Propylbenzene	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
sec-Butylbenzene	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Styrene	90	260	3	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Tert Butyl Alcohol	1,400	11,000	0.3	< 11	< 0.098	< 11	< 190	< 8.3	< 12	NA	< 0.0029	< 0.0026
tert-Butylbenzene	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Tetrachloroethene	43	1,500	0.005	**2.7**	**0.039**	**1.4**	**360**	**1.6**	**15**	NA	**0.0035**	**0.04**
Toluene	6,300	91,000	7	< 0.53	**0.0013 J**	< 0.57	< 9.7	< 0.42	< 0.61	NA	**0.0018**	**0.0017**
Trans-1,2-Dichloroethene	300	720	0.6	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Trans-1,3-Dichloropropene	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Trichloroethene	3	10	0.01	**0.43 J**	**0.02**	< 0.57	< 9.7	< 0.42	**0.18 J**	NA	< 0.0006	**0.0015**
Trichlorofluoromethane	23,000	340,000	34	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
Vinyl chloride	0.7	2	0.005	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	NA	< 0.0006	< 0.0005
TIC VOCs (mg/kg)												
2,3-Dimethylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl acetate	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIC VOCs (mg/kg)												
TIC Unknown	NLE	NLE	NLE	**0.84 J**	NA	**0.94 J**	NA	**2 J**	**1.72 J**	NA	NA	NA

TABLE 1
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP CRITERIA
SITE FTMM68
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	FTMM68-SB05	FTMM68-SB06			FTMM68-SB07		
Sample ID				**FTMM-68-SS-SB5-39.0-39.5**	**FTMM-68-SS-SB6-17.0-17.5**	**FTMM-68-SS-SB6-24.5-25.0**	**FTMM-68-SS-SB6-27.5-28.0**	**FTMM-68-SS-SB7-8.0-8.5**	**FTMM-68-SS-SB7-16.5-17.0**	**FTMM-68-SS-SB7-21.0-21.5**
Depth (bgs)				**39-39.5**	**17-17.5**	**24.5-25**	**27.5-28**	**8-8.5**	**16.5-17**	**21-21.5**
Sample Date				**1/3/2017**	**1/3/2017**	**1/3/2017**	**1/3/2017**	**1/3/2017**	**1/3/2017**	**1/3/2017**
Volatile Organic Compounds (mg/kg)										
1,1,1,2-Tetrachloroethane	NLE	NLE	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
1,1,1-Trichloroethane	160,000	NLE	0.3	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
1,1,2,2-Tetrachloroethane	1	3	0.007	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
1,1,2-Trichloroethane	2	6	0.02	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
1,1-Dichloroethane	8	24	0.2	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
1,1-Dichloroethene	11	150	0.008	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
1,1-Dichloropropene	NLE	NLE	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
1,2,3-Trichlorobenzene	NLE	NLE	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
1,2,3-Trichloropropane	NLE	NLE	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
1,2,4-Trichlorobenzene	73	820	0.7	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
1,2,4-Trimethylbenzene	NLE	NLE	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
1,2-Dibromo-3-chloropropane	0.08	0.2	0.005	< 0.0012	< 0.0021	< 0.0013	< 0.0015 UJ	< 0.0014	< 0.0014	< 0.0013
1,2-Dibromoethane	0.008	0.04	0.005	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
1,2-Dichlorobenzene	5,300	59,000	17	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
1,2-Dichloroethane	0.9	3	0.005	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
1,2-Dichloropropane	2	5	0.005	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
1,3,5-Trimethylbenzene	NLE	NLE	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
1,3-Dichlorobenzene	5,300	59,000	19	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
1,3-Dichloropropane	NLE	NLE	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
1,4-Dichlorobenzene	5	13	2	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
2,2-Dichloropropane	NLE	NLE	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
2-Chlorotoluene	NLE	NLE	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Acetone	70,000	NLE	19	**0.018**	**0.054**	**0.007**	**0.015 J-**	< 0.0029	**0.025**	**0.015**
Benzene	2	5	0.005	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Bromobenzene	NLE	NLE	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Bromochloromethane	NLE	NLE	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Bromodichloromethane	1	3	0.005	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Bromoform	81	280	0.03	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Carbon tetrachloride	2	4	0.005	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Chlorobenzene	510	7,400	0.6	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Chlorodibromomethane	3	8	0.005	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Chloroethane	220	1,100	NLE	< 0.0012	< 0.0021	< 0.0013	< 0.0015 UJ	< 0.0014	< 0.0014	< 0.0013
Chloroform	0.6	2	0.4	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Cis-1,2-Dichloroethene	230	560	0.3	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Cis-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Cymene	NLE	NLE	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Dichlorodifluoromethane	490	230,000	39	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Ethyl benzene	7,800	110,000	13	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Hexachlorobutadiene	6	25	0.9	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Isopropylbenzene	NLE	NLE	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Meta/Para Xylene	NLE	NLE	NLE	< 0.001	< 0.0016	< 0.001	< 0.0012 UJ	< 0.0012	< 0.0011	< 0.001
Methyl bromide	25	59	0.04	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Methyl butyl ketone	NLE	NLE	NLE	< 0.0025	< 0.0041	< 0.0026	< 0.0029 UJ	< 0.0029	< 0.0027	< 0.0026
Methyl chloride	4	12	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Methyl ethyl ketone	3,100	44,000	0.9	< 0.0025	< 0.0041	< 0.0026	< 0.0029 UJ	< 0.0029	**0.0026 J**	< 0.0026
Methyl isobutyl ketone	NLE	NLE	NLE	< 0.0025	< 0.0041	< 0.0026	< 0.0029 UJ	< 0.0029	< 0.0027	< 0.0026
Methyl Tertbutyl Ether	110	320	0.2	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	**0.0003 J**	< 0.0005
Methylene chloride	46	230	0.01	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Naphthalene	6	17	25	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
n-Butylbenzene	NLE	NLE	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Ortho Xylene	NLE	NLE	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
p-Chlorotoluene	NLE	NLE	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Propylbenzene	NLE	NLE	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
sec-Butylbenzene	NLE	NLE	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Styrene	90	260	3	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Tert Butyl Alcohol	1,400	11,000	0.3	< 0.0025	< 0.0041	< 0.0026	< 0.0029 UJ	< 0.0029	< 0.0027	< 0.0026
tert-Butylbenzene	NLE	NLE	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Tetrachloroethene	43	1,500	0.005	**0.072**	< 0.0008	**2.1**	**1.5**	< 0.0006	**0.0007 J**	**0.0015**
Toluene	6,300	91,000	7	**0.0028**	**0.0027**	**0.0024**	**0.0023 J-**	**0.0061**	**0.0028**	**0.0008 J**
Trans-1,2-Dichloroethene	300	720	0.6	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Trans-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Trichloroethene	3	10	0.01	**0.001 J**	< 0.0008	**0.0036**	**0.0018 J-**	< 0.0006	< 0.0005	< 0.0005
Trichlorofluoromethane	23,000	340,000	34	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
Vinyl chloride	0.7	2	0.005	< 0.0005	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006	< 0.0005	< 0.0005
TIC VOCs (mg/kg)										
2,3-Dimethylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
2-Methylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
Ethyl acetate	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
TIC VOCs (mg/kg)										
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA

TABLE 1
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP CRITERIA
SITE FTMM68
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	FTMM68-SB07	FTMM68-SB08				FTMM68-SB09	
Sample ID				**FTMM-68-SS-SB7-41.0-41.5**	**FTMM-68-SS-SB8-8.0-8.5**	**FTMM-68-SS-SB8-13.5-14.0**	**FTMM-68-SS-SB8-26.0-26.5**	**FTMM-68-SS-SB8-40.0-40.5**	**FTMM-68-SS-SB9-18.0-18.5**	**FTMM-68-SS-SB9-28.0-28.5**
Depth (bgs)				**41-41.5**	**8-8.5**	**13.5-14**	**26-26.5**	**40-40.5**	**18-18.5**	**28-28.5**
Sample Date				**1/3/2017**	**1/4/2017**	**1/4/2017**	**1/4/2017**	**1/4/2017**	**1/4/2017**	**1/4/2017**
Volatile Organic Compounds (mg/kg)										
1,1,1,2-Tetrachloroethane	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
1,1,1-Trichloroethane	160,000	NLE	0.3	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
1,1,2,2-Tetrachloroethane	1	3	0.007	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
1,1,2-Trichloroethane	2	6	0.02	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
1,1-Dichloroethane	8	24	0.2	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
1,1-Dichloroethene	11	150	0.008	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
1,1-Dichloropropene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
1,2,3-Trichlorobenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
1,2,3-Trichloropropane	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
1,2,4-Trichlorobenzene	73	820	0.7	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
1,2,4-Trimethylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
1,2-Dibromo-3-chloropropane	0.08	0.2	0.005	< 0.001	< 0.001	< 0.0014	< 0.0012	< 0.0009	< 0.0013	< 0.0016
1,2-Dibromoethane	0.008	0.04	0.005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
1,2-Dichlorobenzene	5,300	59,000	17	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
1,2-Dichloroethane	0.9	3	0.005	**0.0023**	< 0.0004	< 0.0006	< 0.0005	**0.0008**	< 0.0005	< 0.0006
1,2-Dichloropropane	2	5	0.005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
1,3,5-Trimethylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
1,3-Dichlorobenzene	5,300	59,000	19	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
1,3-Dichloropropane	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
1,4-Dichlorobenzene	5	13	2	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
2,2-Dichloropropane	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
2-Chlorotoluene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Acetone	70,000	NLE	19	**0.034**	**0.0059**	**0.095**	**0.014**	**0.0059**	**0.029**	**0.049**
Benzene	2	5	0.005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Bromobenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Bromochloromethane	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Bromodichloromethane	1	3	0.005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Bromoform	81	280	0.03	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Carbon tetrachloride	2	4	0.005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Chlorobenzene	510	7,400	0.6	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Chlorodibromomethane	3	8	0.005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Chloroethane	220	1,100	NLE	< 0.001	< 0.001	< 0.0014	< 0.0012	< 0.0009	< 0.0013	< 0.0016
Chloroform	0.6	2	0.4	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Cis-1,2-Dichloroethene	230	560	0.3	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Cis-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Cymene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Dichlorodifluoromethane	490	230,000	39	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Ethyl benzene	7,800	110,000	13	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Hexachlorobutadiene	6	25	0.9	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Isopropylbenzene	NLE	NLE	NLE	**0.0003 J**	< 0.0004	< 0.0006	< 0.0005	< 0.0004	**0.0006 J**	< 0.0006
Meta/Para Xylene	NLE	NLE	NLE	< 0.0008	< 0.0008	< 0.0011	< 0.001	< 0.0007	< 0.001	< 0.0013
Methyl bromide	25	59	0.04	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Methyl butyl ketone	NLE	NLE	NLE	< 0.002	< 0.002	< 0.0028	< 0.0024	< 0.0019	< 0.0026	< 0.0032
Methyl chloride	4	12	NLE	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Methyl ethyl ketone	3,100	44,000	0.9	< 0.002	< 0.002	< 0.0028	< 0.0024	< 0.0019	**0.0042 J**	**0.0022 J**
Methyl isobutyl ketone	NLE	NLE	NLE	< 0.002	< 0.002	< 0.0028	< 0.0024	< 0.0019	< 0.0026	< 0.0032
Methyl Tertbutyl Ether	110	320	0.2	**0.0005 J**	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	**0.0005 J**
Methylene chloride	46	230	0.01	< 0.0004	**0.0006 J**	< 0.0006	< 0.0005	< 0.0004	< 0.0005	**0.0054**
Naphthalene	6	17	25	**0.0004 J**	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
n-Butylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Ortho Xylene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
p-Chlorotoluene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Propylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
sec-Butylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Styrene	90	260	3	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Tert Butyl Alcohol	1,400	11,000	0.3	**0.011**	< 0.002	< 0.0028	< 0.0024	< 0.0019	< 0.0026	< 0.0032
tert-Butylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Tetrachloroethene	43	1,500	0.005	**0.0003 J**	< 0.0004	**0.0006 J**	< 0.0005	< 0.0004	**0.0043**	< 0.0006
Toluene	6,300	91,000	7	**0.0049**	**0.0023**	**0.0007 J**	**0.0022**	**0.0011**	**0.0033**	**0.0004 J**
Trans-1,2-Dichloroethene	300	720	0.6	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Trans-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Trichloroethene	3	10	0.01	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
Trichlorofluoromethane	23,000	340,000	34	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	**0.0022**
Vinyl chloride	0.7	2	0.005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004	< 0.0005	< 0.0006
TIC VOCs (mg/kg)										
2,3-Dimethylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	**0.0032 JN**	NA
2-Methylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
Ethyl acetate	NLE	NLE	NLE	NA	NA	**0.0021 JN**	NA	NA	NA	NA
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
TIC VOCs (mg/kg)										
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA

TABLE 1
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP CRITERIA
SITE FTMM68
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	FTMM68-SB09	FTMM68-SB10					
Sample ID				**FTMM-68-SS-SB9-38.0-38.5**	**FTMM-68-SS-SB10-0.75-1.25**	**FTMM-68-SS-SB10-8.0-8.5**	**FTMM-68-SS-SB10-19.0-19.5**	**FTMM-68-SS-SB10-26.0-26.5**	**FTMM-68-SS-SB10-34.0-34.5**	**FTMM-68-SS-SB10-36.5-37.0**
Depth (bgs)				**38-38.5**	**0.75-1.25**	**8-8.5**	**19-19.5**	**26-26.5**	**34-34.5**	**36.5-37**
Sample Date				**1/4/2017**	**1/4/2017**	**1/4/2017**	**1/4/2017**	**1/4/2017**	**1/4/2017**	**1/4/2017**
Volatile Organic Compounds (mg/kg)										
1,1,1,2-Tetrachloroethane	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
1,1,1-Trichloroethane	160,000	NLE	0.3	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
1,1,2,2-Tetrachloroethane	1	3	0.007	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
1,1,2-Trichloroethane	2	6	0.02	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
1,1-Dichloroethane	8	24	0.2	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
1,1-Dichloroethene	11	150	0.008	< 0.0004	< 0.0004	< 0.0005	**0.0012 J**	**0.001 J**	< 0.0007 UJ	< 0.0004
1,1-Dichloropropene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
1,2,3-Trichlorobenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
1,2,3-Trichloropropane	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
1,2,4-Trichlorobenzene	73	820	0.7	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
1,2,4-Trimethylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
1,2-Dibromo-3-chloropropane	0.08	0.2	0.005	< 0.0011	< 0.0011	< 0.0012	< 0.002	< 0.0014	< 0.0016 UJ	< 0.0011
1,2-Dibromoethane	0.008	0.04	0.005	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
1,2-Dichlorobenzene	5,300	59,000	17	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
1,2-Dichloroethane	0.9	3	0.005	**0.0002 J**	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
1,2-Dichloropropane	2	5	0.005	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
1,3,5-Trimethylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
1,3-Dichlorobenzene	5,300	59,000	19	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
1,3-Dichloropropane	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
1,4-Dichlorobenzene	5	13	2	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
2,2-Dichloropropane	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
2-Chlorotoluene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Acetone	70,000	NLE	19	< 0.0022	< 0.0022	**0.034**	**0.054 J+**	**0.032**	**0.0051 J**	**0.0032 J**
Benzene	2	5	0.005	**0.0013**	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Bromobenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Bromochloromethane	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Bromodichloromethane	1	3	0.005	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Bromoform	81	280	0.03	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Carbon tetrachloride	2	4	0.005	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Chlorobenzene	510	7,400	0.6	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Chlorodibromomethane	3	8	0.005	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Chloroethane	220	1,100	NLE	< 0.0011	< 0.0011	< 0.0012	< 0.002	< 0.0014	< 0.0016 UJ	< 0.0011
Chloroform	0.6	2	0.4	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Cis-1,2-Dichloroethene	230	560	0.3	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	**0.0008 J**	**0.0005 J**
Cis-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Cymene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Dichlorodifluoromethane	490	230,000	39	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Ethyl benzene	7,800	110,000	13	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Hexachlorobutadiene	6	25	0.9	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Isopropylbenzene	NLE	NLE	NLE	**0.0011**	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Meta/Para Xylene	NLE	NLE	NLE	< 0.0009	< 0.0009	< 0.0009	< 0.0016	< 0.0011	< 0.0013 UJ	< 0.0009
Methyl bromide	25	59	0.04	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Methyl butyl ketone	NLE	NLE	NLE	< 0.0022	< 0.0022	< 0.0024	< 0.0039	< 0.0027	< 0.0033 UJ	< 0.0021
Methyl chloride	4	12	NLE	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Methyl ethyl ketone	3,100	44,000	0.9	< 0.0022	< 0.0022	< 0.0024	< 0.0039	< 0.0027	< 0.0033 UJ	< 0.0021
Methyl isobutyl ketone	NLE	NLE	NLE	< 0.0022	< 0.0022	< 0.0024	< 0.0039	< 0.0027	< 0.0033 UJ	< 0.0021
Methyl Tertbutyl Ether	110	320	0.2	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Methylene chloride	46	230	0.01	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Naphthalene	6	17	25	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
n-Butylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Ortho Xylene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
p-Chlorotoluene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Propylbenzene	NLE	NLE	NLE	**0.0006 J**	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
sec-Butylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Styrene	90	260	3	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Tert Butyl Alcohol	1,400	11,000	0.3	**0.0032 J**	< 0.0022	< 0.0024	< 0.0039	< 0.0027	< 0.0033 UJ	< 0.0021
tert-Butylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Tetrachloroethene	43	1,500	0.005	**0.0021**	< 0.0004	**0.0004 J**	**2.2**	**2.5**	**0.14**	**0.14**
Toluene	6,300	91,000	7	**0.0033**	**0.001**	**0.0055**	**0.0009 J**	**0.0038**	**0.0016 J-**	**0.0027**
Trans-1,2-Dichloroethene	300	720	0.6	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Trans-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Trichloroethene	3	10	0.01	**0.0004 J**	< 0.0004	< 0.0005	**0.0069 J+**	**0.0087**	**0.0034 J-**	**0.0016**
Trichlorofluoromethane	23,000	340,000	34	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
Vinyl chloride	0.7	2	0.005	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005	< 0.0007 UJ	< 0.0004
TIC VOCs (mg/kg)										
2,3-Dimethylbutane	NLE	NLE	NLE	**0.0071 JN**	NA	NA	NA	NA	NA	NA
2-Methylbutane	NLE	NLE	NLE	**0.0085 JN**	NA	NA	NA	NA	NA	NA
Ethyl acetate	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	**0.1466 J**	NA
TIC VOCs (mg/kg)										
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA

TABLE 1
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP CRITERIA
SITE FTMM68
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	FTMM68-SB11						
Sample ID				**FTMM-68-SS-SB11-2.5-3.0**	**FTMM-68-SS-SB11-7.5-8.0**	**FTMM-68-SS-SB11-13.5-14.0**	**FTMM-68-SS-SB11-17.5-18.0**	**FTMM-68-SS-SB11-23.5-24.0**	**FTMM-68-SS-SB110-23.5-24.0**	**FTMM-68-SS-SB11-36.0-36.5**
Depth (bgs)				**2.5-3**	**7.5-8**	**13.5-14**	**17.5-18**	**23.5-24**	**23.5-24**	**36-36.5**
Sample Date				**1/4/2017**	**1/4/2017**	**1/4/2017**	**1/4/2017**	**1/4/2017**	**1/4/2017**	**1/4/2017**
Volatile Organic Compounds (mg/kg)										
1,1,1,2-Tetrachloroethane	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
1,1,1-Trichloroethane	160,000	NLE	0.3	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
1,1,2,2-Tetrachloroethane	1	3	0.007	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
1,1,2-Trichloroethane	2	6	0.02	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
1,1-Dichloroethane	8	24	0.2	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
1,1-Dichloroethene	11	150	0.008	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	**0.0012 J**	< 0.0006
1,1-Dichloropropene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
1,2,3-Trichlorobenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
1,2,3-Trichloropropane	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
1,2,4-Trichlorobenzene	73	820	0.7	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
1,2,4-Trimethylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
1,2-Dibromo-3-chloropropane	0.08	0.2	0.005	< 0.0009	< 0.001	< 0.0015 UJ	< 0.001	< 0.0012 UJ	< 0.0018 UJ	< 0.0016
1,2-Dibromoethane	0.008	0.04	0.005	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
1,2-Dichlorobenzene	5,300	59,000	17	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
1,2-Dichloroethane	0.9	3	0.005	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	**0.0025**
1,2-Dichloropropane	2	5	0.005	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
1,3,5-Trimethylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
1,3-Dichlorobenzene	5,300	59,000	19	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
1,3-Dichloropropane	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
1,4-Dichlorobenzene	5	13	2	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
2,2-Dichloropropane	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
2-Chlorotoluene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Acetone	70,000	NLE	19	**0.0084**	**0.0038 J**	**0.0033 J**	**0.0049**	**0.01 J**	**0.12 J**	**0.036**
Benzene	2	5	0.005	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Bromobenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Bromochloromethane	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Bromodichloromethane	1	3	0.005	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Bromoform	81	280	0.03	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Carbon tetrachloride	2	4	0.005	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Chlorobenzene	510	7,400	0.6	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Chlorodibromomethane	3	8	0.005	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Chloroethane	220	1,100	NLE	< 0.0009	< 0.001	< 0.0015 UJ	< 0.001	< 0.0012 UJ	< 0.0018 UJ	< 0.0016
Chloroform	0.6	2	0.4	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Cis-1,2-Dichloroethene	230	560	0.3	< 0.0004	**0.0003 J**	< 0.0006 UJ	**0.0019**	**0.0013 J-**	**0.0011 J**	< 0.0006
Cis-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Cymene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Dichlorodifluoromethane	490	230,000	39	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Ethyl benzene	7,800	110,000	13	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Hexachlorobutadiene	6	25	0.9	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Isopropylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Meta/Para Xylene	NLE	NLE	NLE	< 0.0007	< 0.0008	< 0.0012 UJ	< 0.0008	< 0.001 UJ	< 0.0014 UJ	< 0.0013
Methyl bromide	25	59	0.04	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Methyl butyl ketone	NLE	NLE	NLE	< 0.0018	< 0.0019	< 0.0029 UJ	< 0.002	< 0.0024 UJ	< 0.0036 UJ	< 0.0032
Methyl chloride	4	12	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Methyl ethyl ketone	3,100	44,000	0.9	< 0.0018	< 0.0019	< 0.0029 UJ	< 0.002	< 0.0024 UJ	< 0.0036 UJ	**0.0022 J**
Methyl isobutyl ketone	NLE	NLE	NLE	< 0.0018	< 0.0019	< 0.0029 UJ	< 0.002	< 0.0024 UJ	< 0.0036 UJ	< 0.0032
Methyl Tertbutyl Ether	110	320	0.2	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	**0.02**
Methylene chloride	46	230	0.01	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Naphthalene	6	17	25	< 0.0004	**0.0003 J**	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
n-Butylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Ortho Xylene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
p-Chlorotoluene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Propylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
sec-Butylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Styrene	90	260	3	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Tert Butyl Alcohol	1,400	11,000	0.3	< 0.0018	< 0.0019	< 0.0029 UJ	< 0.002	< 0.0024 UJ	< 0.0036 UJ	**0.016**
tert-Butylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Tetrachloroethene	43	1,500	0.005	**0.0047**	**0.0059**	**0.0009 J**	**0.036**	**3.5**	**3**	< 0.0006
Toluene	6,300	91,000	7	**0.0016**	**0.0025**	**0.0043 J-**	**0.0039**	**0.0025 J**	**0.0098 J**	**0.0047**
Trans-1,2-Dichloroethene	300	720	0.6	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Trans-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Trichloroethene	3	10	0.01	< 0.0004	< 0.0004	< 0.0006 UJ	**0.0027**	**0.0085 J-**	**0.014 J-**	< 0.0006
Trichlorofluoromethane	23,000	340,000	34	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
Vinyl chloride	0.7	2	0.005	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ	< 0.0007 UJ	< 0.0006
TIC VOCs (mg/kg)										
2,3-Dimethylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
2-Methylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
Ethyl acetate	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
TIC VOCs (mg/kg)										
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA

TABLE 1
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP CRITERIA
SITE FTMM68
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	FTMM68-SB12					FTMM68-SB13	
Sample ID				**FTMM-68-SS-SB12-8.0-8.5**	**FTMM-68-SS-SB12-18.0-18.5**	**FTMM-68-SS-SB12-23.0-23.5**	**FTMM-68-SS-SB12-32.0-32.5**	**FTMM-68-SS-SB12-42.0-42.5**	**FTMM-68-SS-SB13-2.0-2.5**	**FTMM-68-SS-SB13-8.0-8.5**
Depth (bgs)				**8-8.5**	**18-18.5**	**23-23.5**	**32-32.5**	**42-42.5**	**2-2.5**	**8-8.5**
Sample Date				**1/5/2017**	**1/5/2017**	**1/5/2017**	**1/5/2017**	**1/5/2017**	**1/5/2017**	**1/5/2017**
Volatile Organic Compounds (mg/kg)										
1,1,1,2-Tetrachloroethane	NLE	NLE	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
1,1,1-Trichloroethane	160,000	NLE	0.3	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
1,1,2,2-Tetrachloroethane	1	3	0.007	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
1,1,2-Trichloroethane	2	6	0.02	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
1,1-Dichloroethane	8	24	0.2	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
1,1-Dichloroethene	11	150	0.008	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	**0.0037 J**
1,1-Dichloropropene	NLE	NLE	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
1,2,3-Trichlorobenzene	NLE	NLE	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
1,2,3-Trichloropropane	NLE	NLE	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
1,2,4-Trichlorobenzene	73	820	0.7	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
1,2,4-Trimethylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
1,2-Dibromo-3-chloropropane	0.08	0.2	0.005	< 0.0011	< 0.0016 UJ	< 0.0011 UJ	< 0.0016	< 0.0012	< 0.0016	< 0.0011 UJ
1,2-Dibromoethane	0.008	0.04	0.005	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
1,2-Dichlorobenzene	5,300	59,000	17	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
1,2-Dichloroethane	0.9	3	0.005	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	**0.0086**	< 0.0007	< 0.0004 UJ
1,2-Dichloropropane	2	5	0.005	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
1,3,5-Trimethylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
1,3-Dichlorobenzene	5,300	59,000	19	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
1,3-Dichloropropane	NLE	NLE	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
1,4-Dichlorobenzene	5	13	2	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
2,2-Dichloropropane	NLE	NLE	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
2-Chlorotoluene	NLE	NLE	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Acetone	70,000	NLE	19	**0.0066**	**0.047 J-**	**0.018 J-**	**0.035**	**0.014**	**0.026**	**0.014 J-**
Benzene	2	5	0.005	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Bromobenzene	NLE	NLE	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Bromochloromethane	NLE	NLE	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Bromodichloromethane	1	3	0.005	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Bromoform	81	280	0.03	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Carbon tetrachloride	2	4	0.005	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Chlorobenzene	510	7,400	0.6	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Chlorodibromomethane	3	8	0.005	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Chloroethane	220	1,100	NLE	< 0.0011	< 0.0016 UJ	< 0.0011 UJ	< 0.0016	< 0.0012	< 0.0016	< 0.0011 UJ
Chloroform	0.6	2	0.4	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Cis-1,2-Dichloroethene	230	560	0.3	< 0.0004	**0.017 J-**	**0.014 J-**	< 0.0006	< 0.0005	**0.0081**	**0.059 J-**
Cis-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Cymene	NLE	NLE	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Dichlorodifluoromethane	490	230,000	39	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Ethyl benzene	7,800	110,000	13	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Hexachlorobutadiene	6	25	0.9	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Isopropylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	**0.0009 J**	< 0.0007	< 0.0004 UJ
Meta/Para Xylene	NLE	NLE	NLE	< 0.0009	< 0.0013 UJ	< 0.0009 UJ	< 0.0012	< 0.001	< 0.0013	< 0.0009 UJ
Methyl bromide	25	59	0.04	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Methyl butyl ketone	NLE	NLE	NLE	< 0.0022	< 0.0032 UJ	< 0.0022 UJ	< 0.0031	< 0.0024	< 0.0033	< 0.0022 UJ
Methyl chloride	4	12	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Methyl ethyl ketone	3,100	44,000	0.9	< 0.0022	**0.0035 J**	< 0.0022 UJ	**0.0082**	**0.0035 J**	< 0.0033	< 0.0022 UJ
Methyl isobutyl ketone	NLE	NLE	NLE	< 0.0022	< 0.0032 UJ	< 0.0022 UJ	< 0.0031	< 0.0024	< 0.0033	< 0.0022 UJ
Methyl Tertbutyl Ether	110	320	0.2	< 0.0004	< 0.0006 UJ	< 0.0004	**0.0072**	< 0.0005	< 0.0007	< 0.0004 UJ
Methylene chloride	46	230	0.01	**0.0009 J**	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	**0.0009 J**	< 0.0004 UJ
Naphthalene	6	17	25	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
n-Butylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Ortho Xylene	NLE	NLE	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
p-Chlorotoluene	NLE	NLE	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Propylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	**0.0004 J**	< 0.0007	< 0.0004 UJ
sec-Butylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Styrene	90	260	3	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Tert Butyl Alcohol	1,400	11,000	0.3	< 0.0022	< 0.0032 UJ	< 0.0022 UJ	**0.025**	**0.026**	< 0.0033	< 0.0022 UJ
tert-Butylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Tetrachloroethene	43	1,500	0.005	< 0.0004	**4.3**	**1.5**	< 0.0006	**0.0008 J**	**0.013**	**0.32 J**
Toluene	6,300	91,000	7	**0.0046**	**0.0041 J-**	**0.0041 J-**	**0.0055**	**0.0042**	**0.0019**	**0.0053 J-**
Trans-1,2-Dichloroethene	300	720	0.6	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	**0.0006 J**	**0.0023 J**
Trans-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	< 0.0004 UJ
Trichloroethene	3	10	0.01	< 0.0004	**0.062 J-**	**0.021 J-**	< 0.0006	< 0.0005	**0.002**	**0.052 J-**
Trichlorofluoromethane	23,000	340,000	34	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	**0.0008 J**
Vinyl chloride	0.7	2	0.005	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005	< 0.0007	**0.023 J**
TIC VOCs (mg/kg)										
2,3-Dimethylbutane	NLE	NLE	NLE	NA	NA	NA	NA	**0.0032 JN**	NA	NA
2-Methylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
Ethyl acetate	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
TIC VOCs (mg/kg)										
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA

TABLE 1
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP CRITERIA
SITE FTMM68
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	FTMM68-SB13				
Sample ID				**FTMM-68-SS-SB130-8.0-8.5**	**FTMM-68-SS-SB13-13.5-14.0**	**FTMM-68-SS-SB13-20.0-20.5**	**FTMM-68-SS-SB13-26.0-26.5**	**FTMM-68-SS-SB13-38.0-38.5**
Depth (bgs)				**8-8.5**	**13.5-14**	**20-20.5**	**26-26.5**	**38-38.5**
Sample Date				**1/5/2017**	**1/5/2017**	**1/5/2017**	**1/5/2017**	**1/5/2017**
Volatile Organic Compounds (mg/kg)								
1,1,1,2-Tetrachloroethane	NLE	NLE	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,1,1-Trichloroethane	160,000	NLE	0.3	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,1,2,2-Tetrachloroethane	1	3	0.007	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,1,2-Trichloroethane	2	6	0.02	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,1-Dichloroethane	8	24	0.2	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,1-Dichloroethene	11	150	0.008	< 0.0004 UJ	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,1-Dichloropropene	NLE	NLE	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,2,3-Trichlorobenzene	NLE	NLE	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,2,3-Trichloropropane	NLE	NLE	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,2,4-Trichlorobenzene	73	820	0.7	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,2,4-Trimethylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,2-Dibromo-3-chloropropane	0.08	0.2	0.005	< 0.001	< 0.0012	< 0.0012	< 0.0014 UJ	< 0.0013
1,2-Dibromoethane	0.008	0.04	0.005	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,2-Dichlorobenzene	5,300	59,000	17	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,2-Dichloroethane	0.9	3	0.005	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	**0.0008 J**
1,2-Dichloropropane	2	5	0.005	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,3,5-Trimethylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,3-Dichlorobenzene	5,300	59,000	19	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,3-Dichloropropane	NLE	NLE	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,4-Dichlorobenzene	5	13	2	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
2,2-Dichloropropane	NLE	NLE	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
2-Chlorotoluene	NLE	NLE	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Acetone	70,000	NLE	19	**0.024**	**0.0035 J**	**0.022**	**0.02 J-**	**0.011**
Benzene	2	5	0.005	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Bromobenzene	NLE	NLE	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Bromochloromethane	NLE	NLE	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Bromodichloromethane	1	3	0.005	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Bromoform	81	280	0.03	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Carbon tetrachloride	2	4	0.005	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Chlorobenzene	510	7,400	0.6	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Chlorodibromomethane	3	8	0.005	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Chloroethane	220	1,100	NLE	< 0.001	< 0.0012	< 0.0012	< 0.0014 UJ	< 0.0013
Chloroform	0.6	2	0.4	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Cis-1,2-Dichloroethene	230	560	0.3	**0.075**	**0.011**	**0.019**	**0.018 J-**	< 0.0005
Cis-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Cymene	NLE	NLE	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Dichlorodifluoromethane	490	230,000	39	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Ethyl benzene	7,800	110,000	13	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Hexachlorobutadiene	6	25	0.9	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Isopropylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Meta/Para Xylene	NLE	NLE	NLE	< 0.0008	< 0.001	< 0.0009	< 0.0012 UJ	< 0.001
Methyl bromide	25	59	0.04	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Methyl butyl ketone	NLE	NLE	NLE	< 0.0021	< 0.0024	< 0.0023	< 0.0029 UJ	< 0.0025
Methyl chloride	4	12	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Methyl ethyl ketone	3,100	44,000	0.9	< 0.0021	< 0.0024	**0.0029 J**	< 0.0029 UJ	**0.002 J**
Methyl isobutyl ketone	NLE	NLE	NLE	< 0.0021	< 0.0024	< 0.0023	< 0.0029 UJ	< 0.0025
Methyl Tertbutyl Ether	110	320	0.2	< 0.0004	< 0.0005	< 0.0005	< 0.0006	**0.0055**
Methylene chloride	46	230	0.01	**0.001 J**	< 0.0005	< 0.0005	**0.0028 J+**	< 0.0005
Naphthalene	6	17	25	**0.0003 J**	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
n-Butylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Ortho Xylene	NLE	NLE	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
p-Chlorotoluene	NLE	NLE	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Propylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
sec-Butylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Styrene	90	260	3	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Tert Butyl Alcohol	1,400	11,000	0.3	< 0.0021	< 0.0024	< 0.0023	< 0.0029 UJ	**0.0047 J**
tert-Butylbenzene	NLE	NLE	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Tetrachloroethene	43	1,500	0.005	**0.61 J**	**0.36**	**6.9**	**1.7**	**0.0023**
Toluene	6,300	91,000	7	**0.0049**	**0.009**	**0.0042**	**0.0023 J-**	**0.0023**
Trans-1,2-Dichloroethene	300	720	0.6	< 0.0004 UJ	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Trans-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Trichloroethene	3	10	0.01	**0.063**	**0.0096**	**0.049**	**0.0097 J-**	< 0.0005
Trichlorofluoromethane	23,000	340,000	34	< 0.0004	**0.0015**	< 0.0005	< 0.0006 UJ	< 0.0005
Vinyl chloride	0.7	2	0.005	**0.0021 J**	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
TIC VOCs (mg/kg)								
2,3-Dimethylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA
2-Methylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA
Ethyl acetate	NLE	NLE	NLE	NA	NA	NA	NA	NA
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA
TIC VOCs (mg/kg)								
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA

Footnote:

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

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

3) NLE = no limit established.

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

5) Bold chemical dectection

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

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

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

B =Compound detected in the sample at a concentration less than or equal to 5 times (10 times for common lab contaminants) the blank concentration.

R = Rejected, data validation rejected the results.

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

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

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

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

E (or ER) = Estimated result.

D = Results from dilution of sample.

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

JN = Tentatively identified compound, estimated concentration.

UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.

J+ = The result is an estimated quantity, but the result may be biased high.

J- = The result is an estimated quantity, but the result may be biased low.

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

9) 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. ###

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

- 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. ###

10) Criteria action level source document and web address.

- The NJ Residential Direct Contact Soil Remediation Standard refers to the NJDEP's Sept 18, 2017 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 Sept 18, 2017 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

Table 2

Detected Soil Analytes and Comparison to USEPA Regional Screening Levels

TABLE 2
SOIL SAMPLING RESULTS - COMPARISON TO USEPA CRITERIA
SITE FTMM68
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	SOLVENT UST ECCAVATION									FTMM-68-SB1		
Sample ID				565 Duplicate	565-A North Wall	565-B South Wall	565-C East Wall	565-D West Wall	565-E Bottom	565-F Piping	565-PX10	565-PX11	FTMM-68-SB1-1.5-2.0	FTMM-68-SB1-20.5-21.0	FTMM-68-SB1-11.0-11.5
epth (bgs)				7-7.5	7-7.5	7-7.5	7-7.5	7-7.5	7-7.5	2-2.5	9-9.5	9-9.5	1.5-2	20.5-21	11-11.5
Sample Date				4/9/2011	4/9/2011	4/9/2011	4/9/2011	4/9/2011	4/9/2011	4/9/2011	5/24/2011	5/25/2011	9/16/2015	9/16/2015	9/17/2015
Volatile Organic Compounds (mg/kg)															
1,1,1,2-Tetrachloroethane	2	8.8	0.00022	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,1,1-Trichloroethane	810	3,600	0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,1,2,2-Tetrachloroethane	0.6	2.7	0.00003	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,1,2-Trichloroethane	0.15	0.63	0.000013	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,1-Dichloroethane	3.6	16	0.00078	NA	NA	NA	NA	NA	NA	NA	ND	ND	< 0.0048	< 0.0063	< 0.0067
1,1-Dichloroethene	23	100	0.01	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,1-Dichloropropene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,2,3-Trichlorobenzene	6.3	93	0.0021	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,2,3-Trichloropropane	0.0051	0.11	0.00000032	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,2,4-Trichlorobenzene	5.8	26	0.0012	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,2,4-Trimethylbenzene	30	180	0.0081	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,2-Dibromo-3-chloropropane	0.0053	0.064	0.00000014	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,2-Dibromoethane	0.036	0.16	0.0000021	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,2-Dichlorobenzene	180	930	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,2-Dichloroethane	0.46	2	0.000048	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,2-Dichloropropane	0.28	1.2	0.000047	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,3,5-Trimethylbenzene	27	150	0.0087	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,3-Dichlorobenzene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,3-Dichloropropane	160	2,300	0.013	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
1,4-Dichlorobenzene	2.6	11	0.00046	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
2,2-Dichloropropane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
2-Chlorotoluene	160	2,300	0.023	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Acetone	6,100	67,000	0.29	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.013**	**0.095**	**0.013**
Benzene	1.2	5.1	0.00023	NA	NA	NA	NA	NA	NA	NA	ND	ND	< 0.0048	< 0.0063	< 0.0067
Bromobenzene	29	180	0.0042	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Bromochloromethane	15	63	0.0021	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Bromodichloromethane	0.29	1.3	0.000036	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Bromoform	19	86	0.00087	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Carbon tetrachloride	0.65	2.9	0.00018	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Chlorobenzene	28	130	0.0053	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Chlorodibromomethane	8.3	39	0.00023	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Chloroethane	1,400	5,700	0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Chloroform	0.32	1.4	0.000061	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Cis-1,2-Dichloroethene	16	230	0.0011	< 293.81	< 0.281	**0.08 J**	**0.16 J**	< 0.199	< 1084.447	< 1.107	ND	ND	**0.0011 J**	**0.08**	**0.011**
Cis-1,3-Dichloropropene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Cymene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Dichlorodifluoromethane	8.7	37	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Ethyl benzene	5.8	25	0.0017	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Hexachlorobutadiene	1.2	5.3	0.00027	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Isopropylbenzene	190	990	0.074	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Meta/Para Xylene	55	240	0.019	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0095	< 0.013	< 0.013
Methyl bromide	0.68	3	0.00019	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Methyl butyl ketone	20	130	0.00088	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Methyl chloride	11	46	0.0049	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Methyl ethyl ketone	2,700	19,000	0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	**0.016**	< 0.0067
Methyl isobutyl ketone	3,300	14,000	0.14	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Methyl Tertbutyl Ether	47	210	0.0032	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Methylene chloride	35	320	0.0027	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Naphthalene	3.8	17	0.00054	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
n-Butylbenzene	390	5,800	0.32	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Ortho Xylene	65	280	0.019	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
p-Chlorotoluene	160	2,300	0.024	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Propylbenzene	380	2,400	0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
sec-Butylbenzene	780	12,000	0.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Styrene	600	3,500	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Tert Butyl Alcohol	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.095 UJ	< 0.13 UJ	< 0.13 UJ
tert-Butylbenzene	780	12,000	0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Tetrachloroethene	8.1	39	0.0018	**88.41 J**	**1.02**	**0.36**	**0.6**	< 0.199	**23,889**	**0.77 D**	**1.58**	**0.26**	**0.024**	**28 D**	**18 D**
Toluene	490	4,700	0.076	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Trans-1,2-Dichloroethene	160	2,300	0.011	NA	NA	NA	NA	NA	NA	NA	ND	ND	< 0.0048	**0.0012 J**	< 0.0067
Trans-1,3-Dichloropropene	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Trichloroethene	0.41	1.9	0.0001	**17,418 D**	< 0.281	< 0.221	< 0.199	< 0.199	< 1084.447	**21.41 D**	ND	ND	**0.0013 J**	**0.16**	**0.0082**
Trichlorofluoromethane	2,300	35,000	0.33	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
Vinyl chloride	0.059	1.7	0.0000065	NA	NA	NA	NA	NA	NA	NA	NA	NA	< 0.0048	< 0.0063	< 0.0067
TIC VOCs (mg/kg)															
2,3-Dimethylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
2-Methylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl acetate	62	260	0.0031	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TIC VOCs (mg/kg)															
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**4.5 J**	NA

TABLE 2
SOIL SAMPLING RESULTS - COMPARISON TO USEPA CRITERIA
SITE FTMM68
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	FTMM-68-SB2			FTMM-68-SB3			FTMM68-SB05
Sample ID				FTMM-68-SB2-1.5-2.0	FTMM-68-SB2-6.0-6.5	FTMM-68-SB2-16.0-16.5	FTMM-68-SB3-12.5-13.0	FTMM-68-SB3-22.5-23.0	FTMM-68-SB3-24.0-24.5	FTMM-68-SS-SB5-24.0-24.5
epth (bgs)				1.5-2	6-6.5	16-16.5	12.5-13	22.5-23	24-24.5	24-24.5
Sample Date				9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	9/17/2015	1/3/2017
Volatile Organic Compounds (mg/kg)										
1,1,1,2-Tetrachloroethane	2	8.8	0.00022	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
1,1,1-Trichloroethane	810	3,600	0.28	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
1,1,2,2-Tetrachloroethane	0.6	2.7	0.00003	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
1,1,2-Trichloroethane	0.15	0.63	0.000013	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
1,1-Dichloroethane	3.6	16	0.00078	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
1,1-Dichloroethene	23	100	0.01	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
1,1-Dichloropropene	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
1,2,3-Trichlorobenzene	6.3	93	0.0021	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
1,2,3-Trichloropropane	0.0051	0.11	0.00000032	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
1,2,4-Trichlorobenzene	5.8	26	0.0012	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
1,2,4-Trimethylbenzene	30	180	0.0081	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
1,2-Dibromo-3-chloropropane	0.0053	0.064	0.00000014	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0015
1,2-Dibromoethane	0.036	0.16	0.0000021	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
1,2-Dichlorobenzene	180	930	0.03	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
1,2-Dichloroethane	0.46	2	0.000048	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
1,2-Dichloropropane	0.28	1.2	0.000047	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
1,3,5-Trimethylbenzene	27	150	0.0087	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
1,3-Dichlorobenzene	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
1,3-Dichloropropane	160	2,300	0.013	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
1,4-Dichlorobenzene	2.6	11	0.00046	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
2,2-Dichloropropane	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
2-Chlorotoluene	160	2,300	0.023	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Acetone	6,100	67,000	0.29	< 0.53	**0.018**	< 0.57	< 9.7	< 0.42	< 0.61	**0.0063**
Benzene	1.2	5.1	0.00023	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Bromobenzene	29	180	0.0042	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Bromochloromethane	15	63	0.0021	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Bromodichloromethane	0.29	1.3	0.000036	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Bromoform	19	86	0.00087	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Carbon tetrachloride	0.65	2.9	0.00018	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Chlorobenzene	28	130	0.0053	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Chlorodibromomethane	8.3	39	0.00023	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Chloroethane	1,400	5,700	0.59	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0015
Chloroform	0.32	1.4	0.000061	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Cis-1,2-Dichloroethene	16	230	0.0011	**0.27** J	**0.022**	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Cis-1,3-Dichloropropene	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Cymene	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Dichlorodifluoromethane	8.7	37	0.03	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Ethyl benzene	5.8	25	0.0017	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Hexachlorobutadiene	1.2	5.3	0.00027	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Isopropylbenzene	190	990	0.074	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Meta/Para Xylene	55	240	0.019	< 1.1	< 0.0098	< 1.1	< 19	< 0.83	< 1.2	< 0.0012
Methyl bromide	0.68	3	0.00019	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Methyl butyl ketone	20	130	0.00088	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0029
Methyl chloride	11	46	0.0049	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Methyl ethyl ketone	2,700	19,000	0.12	< 0.53	**0.0028** J	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0029
Methyl isobutyl ketone	3,300	14,000	0.14	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0029
Methyl Tertbutyl Ether	47	210	0.0032	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Methylene chloride	35	320	0.0027	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Naphthalene	3.8	17	0.00054	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	**0.0003** J
n-Butylbenzene	390	5,800	0.32	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Ortho Xylene	65	280	0.019	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
p-Chlorotoluene	160	2,300	0.024	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Propylbenzene	380	2,400	0.12	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
sec-Butylbenzene	780	12,000	0.59	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Styrene	600	3,500	0.13	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Tert Butyl Alcohol	NLE	NLE	NLE	< 11	< 0.098	< 11	< 190	< 8.3	< 12	< 0.0029
tert-Butylbenzene	780	12,000	0.16	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Tetrachloroethene	8.1	39	0.0018	**2.7**	**0.039**	**1.4**	**360**	**1.6**	**15**	**0.0035**
Toluene	490	4,700	0.076	< 0.53	**0.0013** J	< 0.57	< 9.7	< 0.42	< 0.61	**0.0018**
Trans-1,2-Dichloroethene	160	2,300	0.011	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Trans-1,3-Dichloropropene	NLE	NLE	NLE	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Trichloroethene	0.41	1.9	0.0001	**0.43** J	**0.02**	< 0.57	< 9.7	< 0.42	**0.18** J	< 0.0006
Trichlorofluoromethane	2,300	35,000	0.33	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
Vinyl chloride	0.059	1.7	0.0000065	< 0.53	< 0.0049	< 0.57	< 9.7	< 0.42	< 0.61	< 0.0006
TIC VOCs (mg/kg)										
2,3-Dimethylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
2-Methylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
Ethyl acetate	62	260	0.0031	NA	NA	NA	NA	NA	NA	NA
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
TIC VOCs (mg/kg)										
TIC Unknown	NLE	NLE	NLE	**0.84** J	NA	**0.94** J	NA	**2** J	**1.72** J	NA

TABLE 2
SOIL SAMPLING RESULTS - COMPARISON TO USEPA CRITERIA
SITE FTMM68
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	FTMM68-SB05		FTMM68-SB06				FTMM68-SB07
Sample ID				FTMM-68-SS-SB5-34.0-34.5	FTMM-68-SS-SB5-39.0-39.5	FTMM-68-SS-SB6-15.0-16.0	FTMM-68-SS-SB6-17.0-17.5	FTMM-68-SS-SB6-24.5-25.0	FTMM-68-SS-SB6-27.5-28.0	FTMM-68-SS-SB7-8.0-8.5
epth (bgs)				34-34.5	39-39.5	15-16	17-17.5	24.5-25	27.5-28	8-8.5
Sample Date				1/3/2017	1/3/2017	1/3/2017	1/3/2017	1/3/2017	1/3/2017	1/3/2017
Volatile Organic Compounds (mg/kg)										
1,1,1,2-Tetrachloroethane	2	8.8	0.00022	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
1,1,1-Trichloroethane	810	3,600	0.28	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
1,1,2,2-Tetrachloroethane	0.6	2.7	0.00003	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
1,1,2-Trichloroethane	0.15	0.63	0.000013	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
1,1-Dichloroethane	3.6	16	0.00078	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
1,1-Dichloroethene	23	100	0.01	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
1,1-Dichloropropene	NLE	NLE	NLE	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
1,2,3-Trichlorobenzene	6.3	93	0.0021	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
1,2,3-Trichloropropane	0.0051	0.11	0.00000032	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
1,2,4-Trichlorobenzene	5.8	26	0.0012	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
1,2,4-Trimethylbenzene	30	180	0.0081	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
1,2-Dibromo-3-chloropropane	0.0053	0.064	0.00000014	< 0.0013	< 0.0012	NA	< 0.0021	< 0.0013	< 0.0015 UJ	< 0.0014
1,2-Dibromoethane	0.036	0.16	0.0000021	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
1,2-Dichlorobenzene	180	930	0.03	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
1,2-Dichloroethane	0.46	2	0.000048	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
1,2-Dichloropropane	0.28	1.2	0.000047	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
1,3,5-Trimethylbenzene	27	150	0.0087	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
1,3-Dichlorobenzene	NLE	NLE	NLE	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
1,3-Dichloropropane	160	2,300	0.013	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
1,4-Dichlorobenzene	2.6	11	0.00046	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
2,2-Dichloropropane	NLE	NLE	NLE	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
2-Chlorotoluene	160	2,300	0.023	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Acetone	6,100	67,000	0.29	**0.0061**	**0.018**	NA	**0.054**	**0.007**	**0.015 J-**	< 0.0029
Benzene	1.2	5.1	0.00023	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Bromobenzene	29	180	0.0042	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Bromochloromethane	15	63	0.0021	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Bromodichloromethane	0.29	1.3	0.000036	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Bromoform	19	86	0.00087	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Carbon tetrachloride	0.65	2.9	0.00018	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Chlorobenzene	28	130	0.0053	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Chlorodibromomethane	8.3	39	0.00023	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Chloroethane	1,400	5,700	0.59	< 0.0013	< 0.0012	NA	< 0.0021	< 0.0013	< 0.0015 UJ	< 0.0014
Chloroform	0.32	1.4	0.000061	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Cis-1,2-Dichloroethene	16	230	0.0011	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Cis-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Cymene	NLE	NLE	NLE	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Dichlorodifluoromethane	8.7	37	0.03	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Ethyl benzene	5.8	25	0.0017	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Hexachlorobutadiene	1.2	5.3	0.00027	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Isopropylbenzene	190	990	0.074	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Meta/Para Xylene	55	240	0.019	< 0.0011	< 0.001	NA	< 0.0016	< 0.001	< 0.0012 UJ	< 0.0012
Methyl bromide	0.68	3	0.00019	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Methyl butyl ketone	20	130	0.00088	< 0.0026	< 0.0025	NA	< 0.0041	< 0.0026	< 0.0029 UJ	< 0.0029
Methyl chloride	11	46	0.0049	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Methyl ethyl ketone	2,700	19,000	0.12	< 0.0026	< 0.0025	NA	< 0.0041	< 0.0026	< 0.0029 UJ	< 0.0029
Methyl isobutyl ketone	3,300	14,000	0.14	< 0.0026	< 0.0025	NA	< 0.0041	< 0.0026	< 0.0029 UJ	< 0.0029
Methyl Tertbutyl Ether	47	210	0.0032	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Methylene chloride	35	320	0.0027	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Naphthalene	3.8	17	0.00054	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
n-Butylbenzene	390	5,800	0.32	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Ortho Xylene	65	280	0.019	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
p-Chlorotoluene	160	2,300	0.024	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Propylbenzene	380	2,400	0.12	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
sec-Butylbenzene	780	12,000	0.59	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Styrene	600	3,500	0.13	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Tert Butyl Alcohol	NLE	NLE	NLE	< 0.0026	< 0.0025	NA	< 0.0041	< 0.0026	< 0.0029 UJ	< 0.0029
tert-Butylbenzene	780	12,000	0.16	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Tetrachloroethene	8.1	39	0.0018	**0.04**	**0.072**	NA	< 0.0008	**2.1**	**1.5**	< 0.0006
Toluene	490	4,700	0.076	**0.0017**	**0.0028**	NA	**0.0027**	**0.0024**	**0.0023 J-**	**0.0061**
Trans-1,2-Dichloroethene	160	2,300	0.011	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Trans-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Trichloroethene	0.41	1.9	0.0001	**0.0015**	**0.001 J**	NA	< 0.0008	**0.0036**	**0.0018 J-**	< 0.0006
Trichlorofluoromethane	2,300	35,000	0.33	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
Vinyl chloride	0.059	1.7	0.0000065	< 0.0005	< 0.0005	NA	< 0.0008	< 0.0005	< 0.0006 UJ	< 0.0006
TIC VOCs (mg/kg)										
2,3-Dimethylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
2-Methylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
Ethyl acetate	62	260	0.0031	NA	NA	NA	NA	NA	NA	NA
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
TIC VOCs (mg/kg)										
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA

TABLE 2
SOIL SAMPLING RESULTS - COMPARISON TO USEPA CRITERIA
SITE FTMM68
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	FTMM68-SB07			FTMM68-SB08			
Sample ID				FTMM-68-SS-SB7-16.5-17.0	FTMM-68-SS-SB7-21.0-21.5	FTMM-68-SS-SB7-41.0-41.5	FTMM-68-SS-SB8-8.0-8.5	FTMM-68-SS-SB8-13.5-14.0	FTMM-68-SS-SB8-26.0-26.5	FTMM-68-SS-SB8-40.0-40.5
epth (bgs)				16.5-17	21-21.5	41-41.5	8-8.5	13.5-14	26-26.5	40-40.5
Sample Date				1/3/2017	1/3/2017	1/3/2017	1/4/2017	1/4/2017	1/4/2017	1/4/2017
Volatile Organic Compounds (mg/kg)										
1,1,1,2-Tetrachloroethane	2	8.8	0.00022	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
1,1,1-Trichloroethane	810	3,600	0.28	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
1,1,2,2-Tetrachloroethane	0.6	2.7	0.00003	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
1,1,2-Trichloroethane	0.15	0.63	0.000013	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
1,1-Dichloroethane	3.6	16	0.00078	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
1,1-Dichloroethene	23	100	0.01	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
1,1-Dichloropropene	NLE	NLE	NLE	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
1,2,3-Trichlorobenzene	6.3	93	0.0021	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
1,2,3-Trichloropropane	0.0051	0.11	0.00000032	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
1,2,4-Trichlorobenzene	5.8	26	0.0012	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
1,2,4-Trimethylbenzene	30	180	0.0081	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
1,2-Dibromo-3-chloropropane	0.0053	0.064	0.00000014	< 0.0014	< 0.0013	< 0.001	< 0.001	< 0.0014	< 0.0012	< 0.0009
1,2-Dibromoethane	0.036	0.16	0.0000021	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
1,2-Dichlorobenzene	180	930	0.03	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
1,2-Dichloroethane	0.46	2	0.000048	< 0.0005	< 0.0005	**0.0023**	< 0.0004	< 0.0006	< 0.0005	**0.0008**
1,2-Dichloropropane	0.28	1.2	0.000047	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
1,3,5-Trimethylbenzene	27	150	0.0087	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
1,3-Dichlorobenzene	NLE	NLE	NLE	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
1,3-Dichloropropane	160	2,300	0.013	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
1,4-Dichlorobenzene	2.6	11	0.00046	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
2,2-Dichloropropane	NLE	NLE	NLE	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
2-Chlorotoluene	160	2,300	0.023	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Acetone	6,100	67,000	0.29	**0.025**	**0.015**	**0.034**	**0.0059**	**0.095**	**0.014**	**0.0059**
Benzene	1.2	5.1	0.00023	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Bromobenzene	29	180	0.0042	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Bromochloromethane	15	63	0.0021	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Bromodichloromethane	0.29	1.3	0.000036	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Bromoform	19	86	0.00087	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Carbon tetrachloride	0.65	2.9	0.00018	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Chlorobenzene	28	130	0.0053	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Chlorodibromomethane	8.3	39	0.00023	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Chloroethane	1,400	5,700	0.59	< 0.0014	< 0.0013	< 0.001	< 0.001	< 0.0014	< 0.0012	< 0.0009
Chloroform	0.32	1.4	0.000061	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Cis-1,2-Dichloroethene	16	230	0.0011	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Cis-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Cymene	NLE	NLE	NLE	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Dichlorodifluoromethane	8.7	37	0.03	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Ethyl benzene	5.8	25	0.0017	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Hexachlorobutadiene	1.2	5.3	0.00027	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Isopropylbenzene	190	990	0.074	< 0.0005	< 0.0005	**0.0003 J**	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Meta/Para Xylene	55	240	0.019	< 0.0011	< 0.001	< 0.0008	< 0.0008	< 0.0011	< 0.001	< 0.0007
Methyl bromide	0.68	3	0.00019	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Methyl butyl ketone	20	130	0.00088	< 0.0027	< 0.0026	< 0.002	< 0.002	< 0.0028	< 0.0024	< 0.0019
Methyl chloride	11	46	0.0049	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Methyl ethyl ketone	2,700	19,000	0.12	**0.0026 J**	< 0.0026	< 0.002	< 0.002	< 0.0028	< 0.0024	< 0.0019
Methyl isobutyl ketone	3,300	14,000	0.14	< 0.0027	< 0.0026	< 0.002	< 0.002	< 0.0028	< 0.0024	< 0.0019
Methyl Tertbutyl Ether	47	210	0.0032	**0.0003 J**	< 0.0005	**0.0005 J**	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Methylene chloride	35	320	0.0027	< 0.0005	< 0.0005	< 0.0004	**0.0006 J**	< 0.0006	< 0.0005	< 0.0004
Naphthalene	3.8	17	0.00054	< 0.0005	< 0.0005	**0.0004 J**	< 0.0004	< 0.0006	< 0.0005	< 0.0004
n-Butylbenzene	390	5,800	0.32	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Ortho Xylene	65	280	0.019	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
p-Chlorotoluene	160	2,300	0.024	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Propylbenzene	380	2,400	0.12	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
sec-Butylbenzene	780	12,000	0.59	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Styrene	600	3,500	0.13	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Tert Butyl Alcohol	NLE	NLE	NLE	< 0.0027	< 0.0026	**0.011**	< 0.002	< 0.0028	< 0.0024	< 0.0019
tert-Butylbenzene	780	12,000	0.16	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Tetrachloroethene	8.1	39	0.0018	**0.0007 J**	**0.0015**	**0.0003 J**	< 0.0004	**0.0006 J**	< 0.0005	< 0.0004
Toluene	490	4,700	0.076	**0.0028**	**0.0008 J**	**0.0049**	**0.0023**	**0.0007 J**	**0.0022**	**0.0011**
Trans-1,2-Dichloroethene	160	2,300	0.011	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Trans-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Trichloroethene	0.41	1.9	0.0001	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Trichlorofluoromethane	2,300	35,000	0.33	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
Vinyl chloride	0.059	1.7	0.0000065	< 0.0005	< 0.0005	< 0.0004	< 0.0004	< 0.0006	< 0.0005	< 0.0004
TIC VOCs (mg/kg)										
2,3-Dimethylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
2-Methylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
Ethyl acetate	62	260	0.0031	NA	NA	NA	NA	**0.0021 JN**	NA	NA
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
TIC VOCs (mg/kg)										
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA

TABLE 2
SOIL SAMPLING RESULTS - COMPARISON TO USEPA CRITERIA
SITE FTMM68
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	FTMM68-SB09			FTMM68-SB10			
Sample ID				FTMM-68-SS-SB9-18.0-18.5	FTMM-68-SS-SB9-28.0-28.5	FTMM-68-SS-SB9-38.0-38.5	FTMM-68-SS-SB10-0.75-1.25	FTMM-68-SS-SB10-8.0-8.5	FTMM-68-SS-SB10-19.0-19.5	FTMM-68-SS-SB10-26.0-26.5
epth (bgs)				18-18.5	28-28.5	38-38.5	0.75-1.25	8-8.5	19-19.5	26-26.5
Sample Date				1/4/2017	1/4/2017	1/4/2017	1/4/2017	1/4/2017	1/4/2017	1/4/2017
Volatile Organic Compounds (mg/kg)										
1,1,1,2-Tetrachloroethane	2	8.8	0.00022	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
1,1,1-Trichloroethane	810	3,600	0.28	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
1,1,2,2-Tetrachloroethane	0.6	2.7	0.00003	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
1,1,2-Trichloroethane	0.15	0.63	0.000013	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
1,1-Dichloroethane	3.6	16	0.00078	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
1,1-Dichloroethene	23	100	0.01	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	**0.0012** J	**0.001** J
1,1-Dichloropropene	NLE	NLE	NLE	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
1,2,3-Trichlorobenzene	6.3	93	0.0021	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
1,2,3-Trichloropropane	0.0051	0.11	0.00000032	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
1,2,4-Trichlorobenzene	5.8	26	0.0012	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
1,2,4-Trimethylbenzene	30	180	0.0081	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
1,2-Dibromo-3-chloropropane	0.0053	0.064	0.00000014	< 0.0013	< 0.0016	< 0.0011	< 0.0011	< 0.0012	< 0.002	< 0.0014
1,2-Dibromoethane	0.036	0.16	0.0000021	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
1,2-Dichlorobenzene	180	930	0.03	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
1,2-Dichloroethane	0.46	2	0.000048	< 0.0005	< 0.0006	**0.0002** J	< 0.0004	< 0.0005	< 0.0008	< 0.0005
1,2-Dichloropropane	0.28	1.2	0.000047	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
1,3,5-Trimethylbenzene	27	150	0.0087	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
1,3-Dichlorobenzene	NLE	NLE	NLE	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
1,3-Dichloropropane	160	2,300	0.013	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
1,4-Dichlorobenzene	2.6	11	0.00046	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
2,2-Dichloropropane	NLE	NLE	NLE	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
2-Chlorotoluene	160	2,300	0.023	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Acetone	6,100	67,000	0.29	**0.029**	**0.049**	< 0.0022	< 0.0022	**0.034**	**0.054** J+	**0.032**
Benzene	1.2	5.1	0.00023	< 0.0005	< 0.0006	**0.0013**	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Bromobenzene	29	180	0.0042	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Bromochloromethane	15	63	0.0021	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Bromodichloromethane	0.29	1.3	0.000036	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Bromoform	19	86	0.00087	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Carbon tetrachloride	0.65	2.9	0.00018	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Chlorobenzene	28	130	0.0053	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Chlorodibromomethane	8.3	39	0.00023	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Chloroethane	1,400	5,700	0.59	< 0.0013	< 0.0016	< 0.0011	< 0.0011	< 0.0012	< 0.002	< 0.0014
Chloroform	0.32	1.4	0.000061	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Cis-1,2-Dichloroethene	16	230	0.0011	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Cis-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Cymene	NLE	NLE	NLE	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Dichlorodifluoromethane	8.7	37	0.03	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Ethyl benzene	5.8	25	0.0017	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Hexachlorobutadiene	1.2	5.3	0.00027	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Isopropylbenzene	190	990	0.074	**0.0006** J	< 0.0006	**0.0011**	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Meta/Para Xylene	55	240	0.019	< 0.001	< 0.0013	< 0.0009	< 0.0009	< 0.0009	< 0.0016	< 0.0011
Methyl bromide	0.68	3	0.00019	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Methyl butyl ketone	20	130	0.00088	< 0.0026	< 0.0032	< 0.0022	< 0.0022	< 0.0024	< 0.0039	< 0.0027
Methyl chloride	11	46	0.0049	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Methyl ethyl ketone	2,700	19,000	0.12	**0.0042** J	**0.0022** J	< 0.0022	< 0.0022	< 0.0024	< 0.0039	< 0.0027
Methyl isobutyl ketone	3,300	14,000	0.14	< 0.0026	< 0.0032	< 0.0022	< 0.0022	< 0.0024	< 0.0039	< 0.0027
Methyl Tertbutyl Ether	47	210	0.0032	< 0.0005	**0.0005** J	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Methylene chloride	35	320	0.0027	< 0.0005	**0.0054**	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Naphthalene	3.8	17	0.00054	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
n-Butylbenzene	390	5,800	0.32	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Ortho Xylene	65	280	0.019	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
p-Chlorotoluene	160	2,300	0.024	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Propylbenzene	380	2,400	0.12	< 0.0005	< 0.0006	**0.0006** J	< 0.0004	< 0.0005	< 0.0008	< 0.0005
sec-Butylbenzene	780	12,000	0.59	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Styrene	600	3,500	0.13	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Tert Butyl Alcohol	NLE	NLE	NLE	< 0.0026	< 0.0032	**0.0032** J	< 0.0022	< 0.0024	< 0.0039	< 0.0027
tert-Butylbenzene	780	12,000	0.16	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Tetrachloroethene	8.1	39	0.0018	**0.0043**	< 0.0006	**0.0021**	< 0.0004	**0.0004** J	**2.2**	**2.5**
Toluene	490	4,700	0.076	**0.0033**	**0.0004** J	**0.0033**	**0.001**	**0.0055**	**0.0009** J	**0.0038**
Trans-1,2-Dichloroethene	160	2,300	0.011	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Trans-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Trichloroethene	0.41	1.9	0.0001	< 0.0005	< 0.0006	**0.0004** J	< 0.0004	< 0.0005	**0.0069** J+	**0.0087**
Trichlorofluoromethane	2,300	35,000	0.33	< 0.0005	**0.0022**	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
Vinyl chloride	0.059	1.7	0.0000065	< 0.0005	< 0.0006	< 0.0004	< 0.0004	< 0.0005	< 0.0008	< 0.0005
TIC VOCs (mg/kg)										
2,3-Dimethylbutane	NLE	NLE	NLE	**0.0032** JN	NA	**0.0071** JN	NA	NA	NA	NA
2-Methylbutane	NLE	NLE	NLE	NA	NA	**0.0085** JN	NA	NA	NA	NA
Ethyl acetate	62	260	0.0031	NA	NA	NA	NA	NA	NA	NA
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
TIC VOCs (mg/kg)										
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA

TABLE 2
SOIL SAMPLING RESULTS - COMPARISON TO USEPA CRITERIA
SITE FTMM68
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	FTMM68-SB10		FTMM68-SB11				
Sample ID				**FTMM-68-SS-SB10-34.0-34.5**	**FTMM-68-SS-SB10-36.5-37.0**	**FTMM-68-SS-SB11-2.5-3.0**	**FTMM-68-SS-SB11-7.5-8.0**	**FTMM-68-SS-SB11-13.5-14.0**	**FTMM-68-SS-SB11-17.5-18.0**	**FTMM-68-SS-SB11-23.5-24.0**
epth (bgs)				**34-34.5**	**36.5-37**	**2.5-3**	**7.5-8**	**13.5-14**	**17.5-18**	**23.5-24**
Sample Date				**1/4/2017**	**1/4/2017**	**1/4/2017**	**1/4/2017**	**1/4/2017**	**1/4/2017**	**1/4/2017**
Volatile Organic Compounds (mg/kg)										
1,1,1,2-Tetrachloroethane	2	8.8	0.00022	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
1,1,1-Trichloroethane	810	3,600	0.28	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
1,1,2,2-Tetrachloroethane	0.6	2.7	0.00003	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
1,1,2-Trichloroethane	0.15	0.63	0.000013	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
1,1-Dichloroethane	3.6	16	0.00078	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
1,1-Dichloroethene	23	100	0.01	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
1,1-Dichloropropene	NLE	NLE	NLE	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
1,2,3-Trichlorobenzene	6.3	93	0.0021	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
1,2,3-Trichloropropane	0.0051	0.11	0.00000032	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
1,2,4-Trichlorobenzene	5.8	26	0.0012	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
1,2,4-Trimethylbenzene	30	180	0.0081	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
1,2-Dibromo-3-chloropropane	0.0053	0.064	0.00000014	< 0.0016 UJ	< 0.0011	< 0.0009	< 0.001	< 0.0015 UJ	< 0.001	< 0.0012 UJ
1,2-Dibromoethane	0.036	0.16	0.0000021	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
1,2-Dichlorobenzene	180	930	0.03	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
1,2-Dichloroethane	0.46	2	0.000048	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
1,2-Dichloropropane	0.28	1.2	0.000047	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
1,3,5-Trimethylbenzene	27	150	0.0087	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
1,3-Dichlorobenzene	NLE	NLE	NLE	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
1,3-Dichloropropane	160	2,300	0.013	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
1,4-Dichlorobenzene	2.6	11	0.00046	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
2,2-Dichloropropane	NLE	NLE	NLE	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
2-Chlorotoluene	160	2,300	0.023	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Acetone	6,100	67,000	0.29	**0.0051 J**	**0.0032 J**	**0.0084**	**0.0038 J**	**0.0033 J**	**0.0049**	**0.01 J**
Benzene	1.2	5.1	0.00023	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Bromobenzene	29	180	0.0042	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Bromochloromethane	15	63	0.0021	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Bromodichloromethane	0.29	1.3	0.000036	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Bromoform	19	86	0.00087	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Carbon tetrachloride	0.65	2.9	0.00018	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Chlorobenzene	28	130	0.0053	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Chlorodibromomethane	8.3	39	0.00023	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Chloroethane	1,400	5,700	0.59	< 0.0016 UJ	< 0.0011	< 0.0009	< 0.001	< 0.0015 UJ	< 0.001	< 0.0012 UJ
Chloroform	0.32	1.4	0.000061	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Cis-1,2-Dichloroethene	16	230	0.0011	**0.0008 J**	**0.0005 J**	< 0.0004	**0.0003 J**	< 0.0006 UJ	**0.0019**	**0.0013 J-**
Cis-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Cymene	NLE	NLE	NLE	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Dichlorodifluoromethane	8.7	37	0.03	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Ethyl benzene	5.8	25	0.0017	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Hexachlorobutadiene	1.2	5.3	0.00027	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Isopropylbenzene	190	990	0.074	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Meta/Para Xylene	55	240	0.019	< 0.0013 UJ	< 0.0009	< 0.0007	< 0.0008	< 0.0012 UJ	< 0.0008	< 0.001 UJ
Methyl bromide	0.68	3	0.00019	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Methyl butyl ketone	20	130	0.00088	< 0.0033 UJ	< 0.0021	< 0.0018	< 0.0019	< 0.0029 UJ	< 0.002	< 0.0024 UJ
Methyl chloride	11	46	0.0049	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Methyl ethyl ketone	2,700	19,000	0.12	< 0.0033 UJ	< 0.0021	< 0.0018	< 0.0019	< 0.0029 UJ	< 0.002	< 0.0024 UJ
Methyl isobutyl ketone	3,300	14,000	0.14	< 0.0033 UJ	< 0.0021	< 0.0018	< 0.0019	< 0.0029 UJ	< 0.002	< 0.0024 UJ
Methyl Tertbutyl Ether	47	210	0.0032	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Methylene chloride	35	320	0.0027	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Naphthalene	3.8	17	0.00054	< 0.0007 UJ	< 0.0004	< 0.0004	**0.0003 J**	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
n-Butylbenzene	390	5,800	0.32	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Ortho Xylene	65	280	0.019	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
p-Chlorotoluene	160	2,300	0.024	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Propylbenzene	380	2,400	0.12	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
sec-Butylbenzene	780	12,000	0.59	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Styrene	600	3,500	0.13	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Tert Butyl Alcohol	NLE	NLE	NLE	< 0.0033 UJ	< 0.0021	< 0.0018	< 0.0019	< 0.0029 UJ	< 0.002	< 0.0024 UJ
tert-Butylbenzene	780	12,000	0.16	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Tetrachloroethene	8.1	39	0.0018	**0.14**	**0.14**	**0.0047**	**0.0059**	**0.0009 J**	**0.036**	**3.5**
Toluene	490	4,700	0.076	**0.0016 J-**	**0.0027**	**0.0016**	**0.0025**	**0.0043 J-**	**0.0039**	**0.0025 J**
Trans-1,2-Dichloroethene	160	2,300	0.011	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Trans-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Trichloroethene	0.41	1.9	0.0001	**0.0034 J-**	**0.0016**	< 0.0004	< 0.0004	< 0.0006 UJ	**0.0027**	**0.0085 J-**
Trichlorofluoromethane	2,300	35,000	0.33	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
Vinyl chloride	0.059	1.7	0.0000065	< 0.0007 UJ	< 0.0004	< 0.0004	< 0.0004	< 0.0006 UJ	< 0.0004	< 0.0005 UJ
TIC VOCs (mg/kg)										
2,3-Dimethylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
2-Methylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
Ethyl acetate	62	260	0.0031	NA	NA	NA	NA	NA	NA	NA
TIC Unknown	NLE	NLE	NLE	**0.1466 J**	NA	NA	NA	NA	NA	NA
TIC VOCs (mg/kg)										
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA

TABLE 2
SOIL SAMPLING RESULTS - COMPARISON TO USEPA CRITERIA
SITE FTMM68
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	FTMM68-SB11		FTMM68-SB12				
Sample ID				FTMM-68-SS-SB110-23.5-24.0	FTMM-68-SS-SB11-36.0-36.5	FTMM-68-SS-SB12-8.0-8.5	FTMM-68-SS-SB12-18.0-18.5	FTMM-68-SS-SB12-23.0-23.5	FTMM-68-SS-SB12-32.0-32.5	FTMM-68-SS-SB12-42.0-42.5
epth (bgs)				23.5-24	36-36.5	8-8.5	18-18.5	23-23.5	32-32.5	42-42.5
Sample Date				1/4/2017	1/4/2017	1/5/2017	1/5/2017	1/5/2017	1/5/2017	1/5/2017
Volatile Organic Compounds (mg/kg)										
1,1,1,2-Tetrachloroethane	2	8.8	0.00022	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
1,1,1-Trichloroethane	810	3,600	0.28	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
1,1,2,2-Tetrachloroethane	0.6	2.7	0.00003	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
1,1,2-Trichloroethane	0.15	0.63	0.000013	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
1,1-Dichloroethane	3.6	16	0.00078	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
1,1-Dichloroethene	23	100	0.01	**0.0012 J**	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
1,1-Dichloropropene	NLE	NLE	NLE	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
1,2,3-Trichlorobenzene	6.3	93	0.0021	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
1,2,3-Trichloropropane	0.0051	0.11	0.00000032	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
1,2,4-Trichlorobenzene	5.8	26	0.0012	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
1,2,4-Trimethylbenzene	30	180	0.0081	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
1,2-Dibromo-3-chloropropane	0.0053	0.064	0.00000014	< 0.0018 UJ	< 0.0016	< 0.0011	< 0.0016 UJ	< 0.0011 UJ	< 0.0016	< 0.0012
1,2-Dibromoethane	0.036	0.16	0.0000021	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
1,2-Dichlorobenzene	180	930	0.03	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
1,2-Dichloroethane	0.46	2	0.000048	< 0.0007 UJ	**0.0025**	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	**0.0086**
1,2-Dichloropropane	0.28	1.2	0.000047	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
1,3,5-Trimethylbenzene	27	150	0.0087	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
1,3-Dichlorobenzene	NLE	NLE	NLE	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
1,3-Dichloropropane	160	2,300	0.013	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
1,4-Dichlorobenzene	2.6	11	0.00046	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
2,2-Dichloropropane	NLE	NLE	NLE	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
2-Chlorotoluene	160	2,300	0.023	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Acetone	6,100	67,000	0.29	**0.12 J**	**0.036**	**0.0066**	**0.047 J-**	**0.018 J-**	**0.035**	**0.014**
Benzene	1.2	5.1	0.00023	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Bromobenzene	29	180	0.0042	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Bromochloromethane	15	63	0.0021	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Bromodichloromethane	0.29	1.3	0.000036	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Bromoform	19	86	0.00087	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Carbon tetrachloride	0.65	2.9	0.00018	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Chlorobenzene	28	130	0.0053	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Chlorodibromomethane	8.3	39	0.00023	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Chloroethane	1,400	5,700	0.59	< 0.0018 UJ	< 0.0016	< 0.0011	< 0.0016 UJ	< 0.0011 UJ	< 0.0016	< 0.0012
Chloroform	0.32	1.4	0.000061	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Cis-1,2-Dichloroethene	16	230	0.0011	**0.0011 J**	< 0.0006	< 0.0004	**0.017 J-**	**0.014 J-**	< 0.0006	< 0.0005
Cis-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Cymene	NLE	NLE	NLE	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Dichlorodifluoromethane	8.7	37	0.03	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Ethyl benzene	5.8	25	0.0017	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Hexachlorobutadiene	1.2	5.3	0.00027	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Isopropylbenzene	190	990	0.074	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	**0.0009 J**
Meta/Para Xylene	55	240	0.019	< 0.0014 UJ	< 0.0013	< 0.0009	< 0.0013 UJ	< 0.0009 UJ	< 0.0012	< 0.001
Methyl bromide	0.68	3	0.00019	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Methyl butyl ketone	20	130	0.00088	< 0.0036 UJ	< 0.0032	< 0.0022	< 0.0032 UJ	< 0.0022 UJ	< 0.0031	< 0.0024
Methyl chloride	11	46	0.0049	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Methyl ethyl ketone	2,700	19,000	0.12	< 0.0036 UJ	**0.0022 J**	< 0.0022	**0.0035 J**	< 0.0022 UJ	**0.0082**	**0.0035 J**
Methyl isobutyl ketone	3,300	14,000	0.14	< 0.0036 UJ	< 0.0032	< 0.0022	< 0.0032 UJ	< 0.0022 UJ	< 0.0031	< 0.0024
Methyl Tertbutyl Ether	47	210	0.0032	< 0.0007 UJ	**0.02**	< 0.0004	< 0.0006 UJ	< 0.0004	**0.0072**	< 0.0005
Methylene chloride	35	320	0.0027	< 0.0007 UJ	< 0.0006	**0.0009 J**	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Naphthalene	3.8	17	0.00054	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
n-Butylbenzene	390	5,800	0.32	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Ortho Xylene	65	280	0.019	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
p-Chlorotoluene	160	2,300	0.024	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Propylbenzene	380	2,400	0.12	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	**0.0004 J**
sec-Butylbenzene	780	12,000	0.59	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Styrene	600	3,500	0.13	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Tert Butyl Alcohol	NLE	NLE	NLE	< 0.0036 UJ	**0.016**	< 0.0022	< 0.0032 UJ	< 0.0022 UJ	**0.025**	**0.026**
tert-Butylbenzene	780	12,000	0.16	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Tetrachloroethene	8.1	39	0.0018	**3**	< 0.0006	< 0.0004	**4.3**	**1.5**	< 0.0006	**0.0008 J**
Toluene	490	4,700	0.076	**0.0098 J**	**0.0047**	**0.0046**	**0.0041 J-**	**0.0041 J-**	**0.0055**	**0.0042**
Trans-1,2-Dichloroethene	160	2,300	0.011	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Trans-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Trichloroethene	0.41	1.9	0.0001	**0.014 J-**	< 0.0006	< 0.0004	**0.062 J-**	**0.021 J-**	< 0.0006	< 0.0005
Trichlorofluoromethane	2,300	35,000	0.33	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
Vinyl chloride	0.059	1.7	0.0000065	< 0.0007 UJ	< 0.0006	< 0.0004	< 0.0006 UJ	< 0.0004 UJ	< 0.0006	< 0.0005
TIC VOCs (mg/kg)										
2,3-Dimethylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	**0.0032 JN**
2-Methylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
Ethyl acetate	62	260	0.0031	NA	NA	NA	NA	NA	NA	NA
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
TIC VOCs (mg/kg)										
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA

TABLE 2
SOIL SAMPLING RESULTS - COMPARISON TO USEPA CRITERIA
SITE FTMM68
FORT MONMOUTH, NEW JERSEY

Loc ID	2017-06 RSL Residential Soil (HQ=0.1)	2017-06 RSL Industrial Soil (HQ=0.1)	2017-06 RSL Protect GW Risk-Based (HQ=0.1)	FTMM68-SB13						
Sample ID				FTMM-68-SS-SB13-2.0-2.5	FTMM-68-SS-SB13-8.0-8.5	FTMM-68-SS-SB130-8.0-8.5	FTMM-68-SS-SB13-13.5-14.0	FTMM-68-SS-SB13-20.0-20.5	FTMM-68-SS-SB13-26.0-26.5	FTMM-68-SS-SB13-38.0-38.5
epth (bgs)				2-2.5	8-8.5	8-8.5	13.5-14	20-20.5	26-26.5	38-38.5
Sample Date				1/5/2017	1/5/2017	1/5/2017	1/5/2017	1/5/2017	1/5/2017	1/5/2017
Volatile Organic Compounds (mg/kg)										
1,1,1,2-Tetrachloroethane	2	8.8	0.00022	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,1,1-Trichloroethane	810	3,600	0.28	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,1,2,2-Tetrachloroethane	0.6	2.7	0.00003	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,1,2-Trichloroethane	0.15	0.63	0.000013	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,1-Dichloroethane	3.6	16	0.00078	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,1-Dichloroethene	23	100	0.01	< 0.0007	**0.0037 J**	< 0.0004 UJ	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,1-Dichloropropene	NLE	NLE	NLE	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,2,3-Trichlorobenzene	6.3	93	0.0021	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,2,3-Trichloropropane	0.0051	0.11	0.00000032	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,2,4-Trichlorobenzene	5.8	26	0.0012	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,2,4-Trimethylbenzene	30	180	0.0081	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,2-Dibromo-3-chloropropane	0.0053	0.064	0.00000014	< 0.0016	< 0.0011 UJ	< 0.001	< 0.0012	< 0.0012	< 0.0014 UJ	< 0.0013
1,2-Dibromoethane	0.036	0.16	0.0000021	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,2-Dichlorobenzene	180	930	0.03	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,2-Dichloroethane	0.46	2	0.000048	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	**0.0008 J**
1,2-Dichloropropane	0.28	1.2	0.000047	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,3,5-Trimethylbenzene	27	150	0.0087	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,3-Dichlorobenzene	NLE	NLE	NLE	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,3-Dichloropropane	160	2,300	0.013	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
1,4-Dichlorobenzene	2.6	11	0.00046	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
2,2-Dichloropropane	NLE	NLE	NLE	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
2-Chlorotoluene	160	2,300	0.023	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Acetone	6,100	67,000	0.29	**0.026**	**0.014 J-**	**0.024**	**0.0035 J**	**0.022**	**0.02 J-**	**0.011**
Benzene	1.2	5.1	0.00023	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Bromobenzene	29	180	0.0042	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Bromochloromethane	15	63	0.0021	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Bromodichloromethane	0.29	1.3	0.000036	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Bromoform	19	86	0.00087	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Carbon tetrachloride	0.65	2.9	0.00018	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Chlorobenzene	28	130	0.0053	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Chlorodibromomethane	8.3	39	0.00023	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Chloroethane	1,400	5,700	0.59	< 0.0016	< 0.0011 UJ	< 0.001	< 0.0012	< 0.0012	< 0.0014 UJ	< 0.0013
Chloroform	0.32	1.4	0.000061	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Cis-1,2-Dichloroethene	16	230	0.0011	**0.0081**	**0.059 J-**	**0.075**	**0.011**	**0.019**	**0.018 J-**	< 0.0005
Cis-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Cymene	NLE	NLE	NLE	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Dichlorodifluoromethane	8.7	37	0.03	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Ethyl benzene	5.8	25	0.0017	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Hexachlorobutadiene	1.2	5.3	0.00027	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Isopropylbenzene	190	990	0.074	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Meta/Para Xylene	55	240	0.019	< 0.0013	< 0.0009 UJ	< 0.0008	< 0.001	< 0.0009	< 0.0012 UJ	< 0.001
Methyl bromide	0.68	3	0.00019	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Methyl butyl ketone	20	130	0.00088	< 0.0033	< 0.0022 UJ	< 0.0021	< 0.0024	< 0.0023	< 0.0029 UJ	< 0.0025
Methyl chloride	11	46	0.0049	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Methyl ethyl ketone	2,700	19,000	0.12	< 0.0033	< 0.0022 UJ	< 0.0021	< 0.0024	**0.0029 J**	< 0.0029 UJ	**0.002 J**
Methyl isobutyl ketone	3,300	14,000	0.14	< 0.0033	< 0.0022 UJ	< 0.0021	< 0.0024	< 0.0023	< 0.0029 UJ	< 0.0025
Methyl Tertbutyl Ether	47	210	0.0032	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006	**0.0055**
Methylene chloride	35	320	0.0027	**0.0009 J**	< 0.0004 UJ	**0.001 J**	< 0.0005	< 0.0005	**0.0028 J+**	< 0.0005
Naphthalene	3.8	17	0.00054	< 0.0007	< 0.0004 UJ	**0.0003 J**	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
n-Butylbenzene	390	5,800	0.32	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Ortho Xylene	65	280	0.019	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
p-Chlorotoluene	160	2,300	0.024	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Propylbenzene	380	2,400	0.12	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
sec-Butylbenzene	780	12,000	0.59	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Styrene	600	3,500	0.13	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Tert Butyl Alcohol	NLE	NLE	NLE	< 0.0033	< 0.0022 UJ	< 0.0021	< 0.0024	< 0.0023	< 0.0029 UJ	**0.0047 J**
tert-Butylbenzene	780	12,000	0.16	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Tetrachloroethene	8.1	39	0.0018	**0.013**	**0.32 J**	**0.61 J**	**0.36**	**6.9**	**1.7**	**0.0023**
Toluene	490	4,700	0.076	**0.0019**	**0.0053 J-**	**0.0049**	**0.009**	**0.0042**	**0.0023 J-**	**0.0023**
Trans-1,2-Dichloroethene	160	2,300	0.011	**0.0006 J**	**0.0023 J**	< 0.0004 UJ	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Trans-1,3-Dichloropropene	NLE	NLE	NLE	< 0.0007	< 0.0004 UJ	< 0.0004	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
Trichloroethene	0.41	1.9	0.0001	**0.002**	**0.052 J-**	**0.063**	**0.0096**	**0.049**	**0.0097 J-**	< 0.0005
Trichlorofluoromethane	2,300	35,000	0.33	< 0.0007	**0.0008 J**	< 0.0004	**0.0015**	< 0.0005	< 0.0006 UJ	< 0.0005
Vinyl chloride	0.059	1.7	0.0000065	< 0.0007	**0.023 J**	**0.0021 J**	< 0.0005	< 0.0005	< 0.0006 UJ	< 0.0005
TIC VOCs (mg/kg)										
2,3-Dimethylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
2-Methylbutane	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
Ethyl acetate	62	260	0.0031	NA	NA	NA	NA	NA	NA	NA
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA
TIC VOCs (mg/kg)										
TIC Unknown	NLE	NLE	NLE	NA	NA	NA	NA	NA	NA	NA

Footnote:

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

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

3) NLE = no limit established.

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

5) Bold chemical dectection

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

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

[blank] = detect, i.e. detected chemical result value.	E (or ER) = Estimated result.
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.	D = Results from dilution of sample.
R = Rejected, data validation rejected the results.	J-DL = Elevated sample detection limit due to difficult sample matrix.
U = non-detect, i.e. not detected at or above this value.	JN = Tentatively identified compound, estimated concentration.
U-DL = Elevated sample detection limit due to difficult sample matrix.	UJ=The compound was not detected: however, the results is estimated because of discrepancies in meeting certain analyte-specific QC criteria.
U-ND = Analyte not detected in sample, but no detection or reporting limit provided.	J+ = The result is an estimated quantity, but the result may be biased high.
J = estimated detected value due to a concetration below the reporting limit or due to discrepancies in meeting certain analyte-specific quality control.	J- = The result is an estimated quantity, but the result may be biased low.

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

9) 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 USEPA 2017-06 RSL Residential Soil (HQ=0.1).	####
- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Industrial Soil (HQ=0.1).	###
- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Protect GW Risk-Based (HQ=0.1).	###
- Cell Shade values represent a result that is above both the USEPA RSL Residential and Industrial Soil (HQ=0.1), 2017-06.	###
- Cell Shade values represent a result that is above the USEPA RSL Residential, Industrial, Protect GW Risk-Based Soil (HQ=0.1), 2017-06.	###

10) Criteria action level source document and web address.

- The 2017-06 USEPA RSL Residential Soil (HQ=0.1) refers to the EPA's Regional Screening Levels (HQ=0.1)
  https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables-november-2017
- The 2017-06 USEPA RSL Industrial Soil (HQ=0.1) refers to the EPA's Regional Screening Levels (HQ=0.1)
  https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables-november-2017
- The 2017-06 USEPA RSL Protect GW Risk-Based (HQ=0.1) refers to the EPA's Regional Screening Levels (HQ=0.1)
  https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables-november-2017

APPENDIX A

PUBLIC NOTICE

U.S. Army Corps of Engineers, NY District, **ACTION MEMORANDUM FOR SITE FTMM-68**

Fort Monmouth, Oceanport

Monmouth County, New jersey

The U.S. Army Corps of Engineers New York District and the U.S. Army Engineering and Support Center, Huntsville (USAESCH), has prepared an *Action Memorandum* for FTMM-68 (the Site) at Fort Monmouth (FTMM) in Oceanport, Monmouth County, New Jersey. The U.S. Army is the lead agency for FTMM in accordance with the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and Executive Order 12580. New Jersey Department of Environmental Protection (NJDEP) is the state support agency under the National Contingency Plan for FTMM.

The purpose of the *Action Memorandum* is to document the U.S. Army's decision to undertake the Time Critical Removal Action (TCRA) at the Site where volatile organic compound (VOC) contaminated soil was identified. This *Action Memorandum* describes the TCRA selected for the Site.

The *Action Memorandum,* the associated reports, and the full public record for the Site, are available for review in the FTMM Environmental Restoration Public Information Repository (the Administrative Record) at the Monmouth County Library, Eastern Branch, 1001 Route 35, Shrewsbury NJ 07702. The *Action Memorandum* is also posted on the FTMM Environmental Restoration Program website (http://www.pica.army.mil/ftmonmouth/).

The New York District invites public comment on the *Action Memorandum*. Written comments will be accepted during a 30-day comment period starting Friday October 26 to Monday November 26 All comments must be postmarked by November 26 and mailed to the address below (or emailed by November 26 to william.r.colvin18.civ@mail.mil):

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OACSIM - U.S. Army Fort Monmouth
Attn: Mr. William Colvin
P.O. Box 148, Oceanport, NJ 07757
(732) 383 5104