



New Jersey Department of Environmental Protection
Site Remediation Program

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

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

Document:

- "Site Investigation Report for FTMM-08 Boring 10 Area, Fort Monmouth, Monmouth County, New Jersey" (23 December 2020)

PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

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

Representative First Name: William

Representative Last Name: Colvin

Title: ISE Environmental Coordinator

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State: NJ

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

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

Signature: _____

Date: 23 December 2020

Name/Title: William R. Colvin

G-9, Army Environmental Division (DAIN-ISE)
Fort Monmouth Environmental Coordinator

Completed form should be sent to:

Mr. Ashish Joshi
New Jersey Department of Environmental Protection
Office of Brownfield & Community Revitalization
401 East State St
Mail Code: 401-05K
P.O. Box 420
Trenton, NJ 08625



DEPARTMENT OF THE ARMY
G-9, Army Environmental Division (DAIN-ISE)
FORT MONMOUTH
P.O. 148
Oceanport, New Jersey 07757

23 December 2020

Mr. Ashish Joshi
New Jersey Department of Environmental Protection
Office of Brownfield & Community Revitalization
401 East State St
Mail Code: 401-05K
P.O. Box 420
Trenton, NJ 08625

**Subject: Site Investigation Report for FTMM-08 Boring 10 Area
Fort Monmouth, Monmouth County, New Jersey
PI G000000032**

Dear Mr. Joshi:

The U.S. Army Fort Monmouth (FTMM) Team has reviewed and summarized previous investigations conducted at the FTMM-08 Boring 10 Area. This site investigation (SI) report provides an overview of historical information, and the results of recent field investigations conducted in November 2017, May 2018, and August 2018.

1.0 OBJECTIVES

Groundwater and soil sampling were conducted in 2017 and 2018 to investigate the 2009 field observations of petroleum odor, elevated photoionization detector (PID) readings, and a sheen on groundwater at FTMM-08 Boring 10 Area. Boring 10 was advanced in February 2009 with a hand auger for delineation of the FTMM-08 landfill (see boring log in **Attachment A**). The petroleum observations were noted during the completion of Boring 10, and the source of the petroleum hydrocarbons was unknown. Subsequent field investigation activities were proposed and documented in the *Letter Work Plan for FTMM-08 Boring 10 Area* approved by the New Jersey Department of Environmental Protection (NJDEP) in August 2017 (**References 1 and 2**). The initial field investigations were completed in November 2017. To further assess the FTMM-08 Boring 10 Area, as described in the Army's emails to NJDEP (**Reference 3**), additional soil and groundwater sampling approved by NJDEP (**Reference 4**) were performed in May and August 2018.

2.0 SITE DESCRIPTION

The FTMM-08 Boring 10 Area is located northwest of Building 292 between landfills FTMM-08 and FTMM-18 of the Main Post (MP). It is located along the sloped stream bank of Parkers Creek that is stabilized with large rocks (rip-rap). The area is surrounded by Building 292 to the south, the installation boundary and Parker's Creek to the north, and grassy areas to the east and west.

2.1 Site Land Use

The current land use is open space and future land use is designated as open space according to the FTMM Reuse and Redevelopment Plan (**Reference 5**).

2.2 Site Geology and Hydrogeology

The Hornerstown Formation underlies much of the MP including the FTMM-08 Boring 10 Area and is approximately 25 to 30 feet thick based on other MP soil borings. This formation is distinguished by varying proportions of glauconitic clay, silty clay, and minor sand. The Tinton Formation underlies the Hornerstown Formation and consists of dense fine sand and trace silt, glauconite, and clay.

Soils encountered in borings at the FTMM-08 Boring 10 Area are primarily dense, moist, green-brown, orange-brown, and reddish-brown sandy silt. Deeper soils below approximately six feet (ft) typically consisted of wet, loose, dark gray-bright green-olive silty sand and dense orange brown silty sand. Observations of elevated PID readings and/or petroleum odor were noted on the field log for soil borings FTMM-08-B-10-SB-02 and FTMM-08-B-10-SB-04. Debris (slag and coal) was noted in the boring log for FTMM-08-B10-SB-10. Olive or green soils that are interpreted as glauconitic soils were observed in most borings. Soil boring logs and field notes are provided in **Attachment A and B**. The depth to groundwater at the FTMM-08 Boring 10 Area is approximately 2 ft below ground surface (bgs) (**Table 1**). Groundwater is typically encountered in the olive greenish-gray and tan brown loose silty sand and flows northwest towards Parker's Creek (**Figure 1**).

3.0 SITE INVESTIGATION RESULTS

The purpose of the initial site investigation in 2017 was to address the NJDEP comments dated 03 June 2016 on the FTMM-08 Landfill Boundary Refinement and Remedial Investigation/Feasibility Study reports, which included a question regarding additional characterization of potential petroleum contamination observed in landfill delineation Boring 10 (**Reference 6**). Additional soil and groundwater sampling was also performed in May and August 2018 to further evaluate the FTMM-08 Boring 10 Area. Groundwater and soil samples were analyzed in accordance with the requirements for unknown petroleum hydrocarbons in Table 2-1 of the New Jersey Administrative Code (NJAC) 7:26E *Technical Requirements for Site Remediation*.

3.1 Groundwater Results

Three temporary wells and two permanent monitoring wells were sampled, and groundwater samples were analyzed for volatile organic compounds (VOCs) plus tentatively identified compounds (TICs), semivolatile organic compounds (SVOCs) plus TICs, and metals. Groundwater samples from the permanent wells were also analyzed for Extractable Petroleum Hydrocarbons (EPHs) and polychlorinated biphenyls (PCBs) to further evaluate these analytes detected in soil (see Section 4.2). Recent groundwater analytical results for temporary monitoring wells are presented on **Table 2**, **Table 3**, and **Figure 2** and for permanent monitoring wells on **Table 4**, **Table 5**, and **Figure 3** for the following wells:

- Temporary well FTMM08-B10-TMW-01 sampled November 2017,
- Temporary well FTMM08-B10-TMW-02 sampled November 2017,
- Temporary well FTMM08-B10-TMW-04 sampled November 2017,
- New permanent well FTMM08-B10-MW01 sampled August 2018, and

- Existing permanent well 296MW07 sampled August 2018.

3.1.1 Exceedances of NJDEP and USEPA Comparison Criteria in Temporary Wells

Concentrations of the following constituents exceeded the current NJDEP Ground Water Quality Criteria (GWQC) and/or USEPA Tapwater Regional Screening Level (RSL) in at least one groundwater sample analyzed for VOCs, SVOCs, and metals (see **Figure 2 and Table 3**):

- The VOCs 1,2,4-trimethylbenzene, benzene, hexachlorobutadiene, methyl bromide, and naphthalene;
- The SVOCs 2-methylnaphthalene, naphthalene, and pentachlorophenol; and
- The metals aluminum, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, iron, lead, manganese, mercury, nickel, thallium, vanadium, and zinc.

Metal concentrations in groundwater were also compared to maximum background concentrations for the MP presented in **Reference 7 (Tables 2 and 3)**. In the temporary wells, all metals targeted for analysis in groundwater samples (except nickel) exceeded the maximum background concentrations for the MP presented in **Reference 7** in at least one sample.

Based on the multiple exceedances of GWQC and RSLs in the temporary wells, additional evaluation of groundwater was performed by installing and sampling one new permanent monitoring well (FTMM-08-B10-MW-01), and by sampling existing permanent well 296MW07.

3.1.2 Exceedances of NJDEP and USEPA Comparison Criteria in Permanent Wells

There were no exceedances of the current NJDEP GWQC and/or USEPA Tapwater RSL for VOCs, SVOCs, EPH, or PCBs in any of the permanent well groundwater samples.

Concentrations of aluminum, arsenic, cobalt, iron, lead, and manganese exceeded the current NJDEP GWQC and/or USEPA Tapwater RSL in at least one groundwater sample; however, no metals exceeded the maximum background value (see **Figure 3 and Tables 4 and 5**).

3.1.3 Constituents of Concern (COCs)

Multiple VOCs, SVOCs, and metals were detected at concentrations above their GWQC within three temporary wells (FTMM08-B10-TMW-01, FTMM08-B10-TMW-02, and FTMM08-B10-TMW-04) in November 2017. However, there were no exceedances of the GWQC for VOCs and SVOCs in the two permanent wells (FTMM08-B10-MW01 and 296MW07) sampled in 2018, and there were no metals that exceeded both the comparison criteria and the maximum background value. Also, select metals in groundwater such as aluminum, arsenic and iron can be attributed to glauconitic soils in the area rather than from contamination by unknown petroleum hydrocarbons.

In comparison to temporary well results, the results from the permanent wells are much more representative of groundwater conditions because the permanent wells are developed and purged prior to the implementation of low flow groundwater sampling. Based on this information, no COCs were identified in groundwater at the FTMM-08 Boring 10 area.

3.2 Soil Results

Three soil borings (FTMM08-B10-SB-01, FTMM08-B10-SB-02, and FTMM08-B10-SB-04) were advanced and three soil samples per boring were collected in November 2017. In May 2018, seven additional soil borings (FTMM08-B10-SB-01 through FTMM08-B10-SB-10, FTMM08-B10-SB-13, and FTMM08-B10-SB-14) were advanced, and three soil samples per boring were collected. The locations of the soil samples are shown on **Figure 4**.

3.2.1 Exceedances of NJDEP RDCSRS and USEPA Residential RSL Comparison Criteria

There were no VOC, SVOC, or metal exceedances of the NJDEP RDCSRS in any of the soil borings. Total PCB concentrations exceeded the RDCSRS of 0.2 mg/kg in three soil samples (FTMM08-B10-SB-04 [1.0 to 1.5 ft bgs, and 2.5 to 3.0 ft bgs], and FTMM-08-B10-SB-10 [2.0 to 2.5 ft bgs]) (see **Figure 4 and Tables 6 and 7**).

There were no VOC or SVOC exceedances of the USEPA Residential RSLs in any of the soil borings. Concentrations of the following constituents exceeded the USEPA Residential RSL in at least one soil sample analyzed for VOCs, SVOCs, PCBs, and metals (see **Figure 4 and Tables 8 and 9**):

- The PCBs Aroclor-1254; and
- The metals aluminum, arsenic, cobalt, iron, and vanadium.

Of the metal exceedances, cobalt was the only metal that exceeded both the USEPA Residential RSL and the maximum background concentrations for the MP presented in **Reference 7**. The remaining metals (aluminum, arsenic, iron and vanadium) are representative of background concentrations. Cobalt background was exceeded in only one sample at 3.7 mg/kg, which is slightly above the site background of 2.5 mg/kg and the RSL of 2.3 mg/kg.

Soil EPH results were compared to NJDEP's sample-specific health-based soil remediation criterion (SRC) using the NJDEP's EPH calculator for non-volatile hydrocarbon mixtures other than number 2 fuel oil and diesel fuel oil (**Reference 8**). As shown on **Table 10**, five samples had EPH concentrations greater than or equal to 1,700 mg/kg, which is the minimum concentration determined by NJDEP to require a sample-specific health based SRC. Three samples (FTMM-08-B10-SB-01 [2.5 to 3.0 ft bgs DUP], FTMM-08-B10-SB-02 [6 to 6.5 ft bgs], and FTMM-08-B10-SB-04 [2.5 to 3.0 ft bgs]) exceeded the allowable EPH SRC (**Table 10**).

3.2.2 Constituents of Concern (COCs)

Aroclor-1254 exceeded the USEPA Residential RSL and is considered a COC in soil at the FTMM-08 Boring 10 Area. Total PCBs also exceeded the NJDEP RDCSRS in soil. Total PCBs concentrations in excess of the RDCSRS (0.2 mg/kg) ranged from 0.24 mg/kg to 0.45 mg/kg. The extent of PCBs in soil is generally delineated by multiple soil borings and by Parkers Creek to the north (there is no soil media within Parkers Creek, and sediment samples were not collected).

EPH in soil failed the allowable sample-specific EPH SRC in three samples, and therefore EPH is also a soil COC. Total EPH concentrations in excess of the SRC ranged from 10,284 mg/kg to 12,330 mg/kg. The extent of soil EPH exceedances is generally delineated by multiple soil borings and by Parkers Creek to the north.

Although aluminum, arsenic, cobalt, iron, and vanadium were detected in at least one soil boring above either the NJDEP RDCSRS or USEPA Residential RSL criteria, cobalt was the only metal detected at concentrations above the maximum background concentration for the MP (**Reference 7**). Cobalt in only one sample (FTMM08-B10-SB-04 at 6.5 to 7.0 ft bgs at 3.7 mg/kg) slightly exceeded the site background of 2.5 mg/kg and the RSL of 2.3 mg/kg. Further, this cobalt occurrence did not coincide with any soil EPH or PCB exceedances. Therefore, there are no metal COCs in soil at the FTMM-08 Boring 10 Area.

4.0 SUMMARY

No COCs were identified in groundwater, and therefore additional actions are not warranted for groundwater. Aroclor-1254, total PCBs and EPH exceeded the USEPA and NJDEP comparison criteria in soil and therefore are COCs; however these analytes are adequately delineated.

We look forward to your comments on this SI report. If you have any questions, please contact me at (732) 515-0874 or william.r.colvin18.civ@mail.mil.

Sincerely,



William R. Colvin
Fort Monmouth Environmental Coordinator
G-9, Army Environmental Division (DAIN-ISE)

cc: Ashish Joshi (e-mail and 2 hard copies)
William Colvin, BEC (e-mail)
Joseph Pearson, Calibre (e-mail)
James Moore, USACE (e-mail)
Jim Kelly, USACE (e-mail)
Joseph Fallon, FMERA (e-mail)
Jodie Johnson, HGL (e-mail)

Attachments:

- Figure 1 – FTMM-08 Boring 10 Site Location
- Figure 2 – FTMM-08 Boring 10 Layout, Temporary Monitoring Well Groundwater Sampling Locations, and Exceedances
- Figure 3 – FTMM-08 Boring 10 Site Layout, Permanent Monitoring Well Groundwater Sampling Locations, and Exceedances
- Figure 4 – FTMM-08 Soil Sampling Locations and Exceedances

Table 1 - Groundwater Gauging Data and Elevations (January 15, 2018)

Table 2 – Temporary Monitoring Well Ground Water Sampling Results – Comparison to NJDEP Ground Water Quality Criteria and USEPA Tapwater RSLs

Table 3 - Temporary Monitoring Well Ground Water Sampling Summary of Exceedances

Table 4 – Permanent Monitoring Well Ground Water Sampling Results – Comparison to NJDEP Ground Water Quality Criteria and USEPA Tapwater RSLs

Table 5 – Permanent Monitoring Well Ground Water Sampling Summary of Exceedances

Table 6 – Soil Sampling Results – Comparison to NJDEP Soil Remediation Standards

Table 7 – Soil Sampling Summary of NJDEP Exceedances

Table 8 – Soil Sampling Results– Comparison to USEPA Soil Remediation Standards

Table 9 – Soil Sampling Summary of USEPA Exceedances

Table 10 –Soil Sampling Results – Comparison to EPH Soil Remediation Criteria

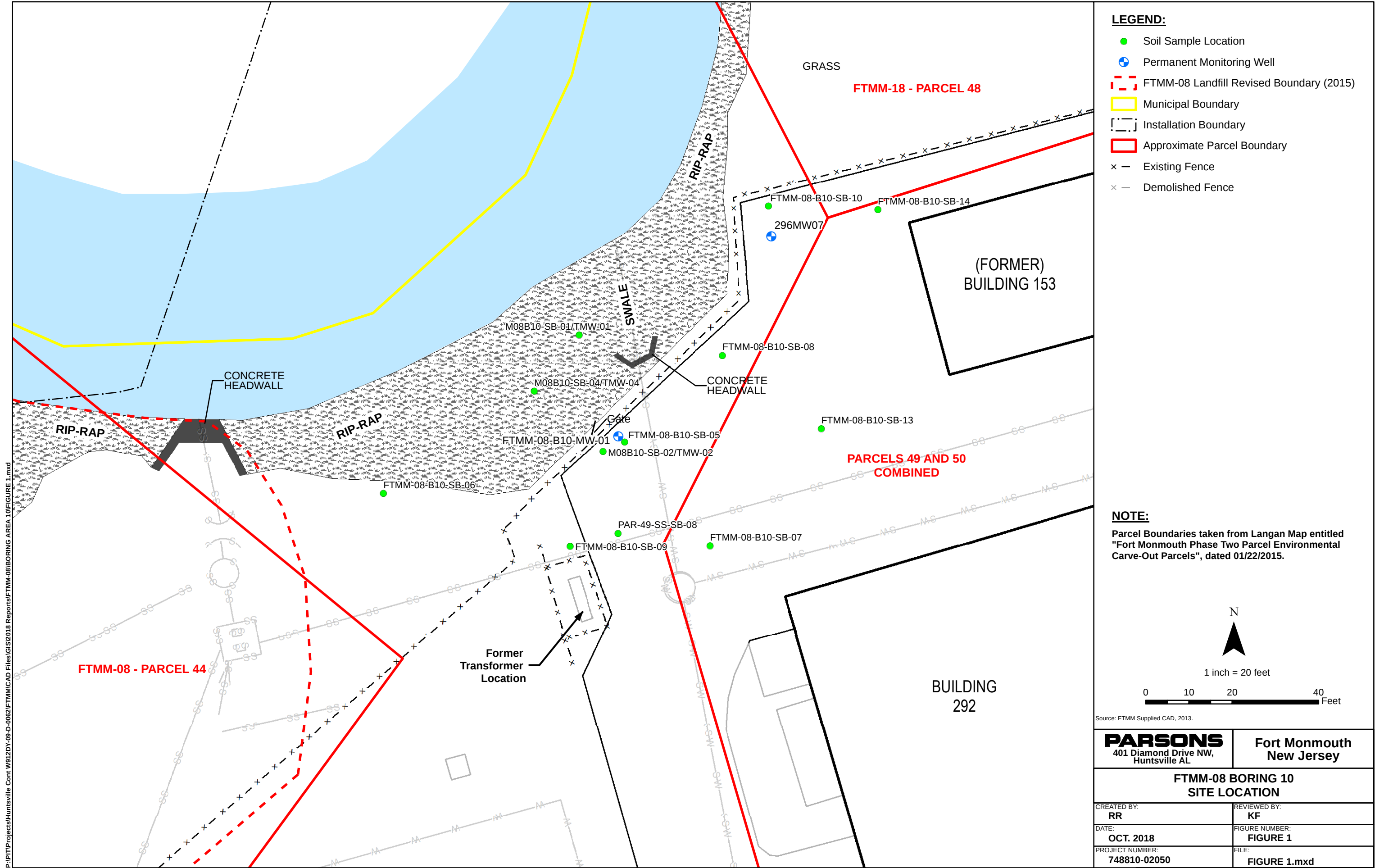
Attachment A – Soil Boring Logs and Well Construction Details

Attachment B – Field Notes

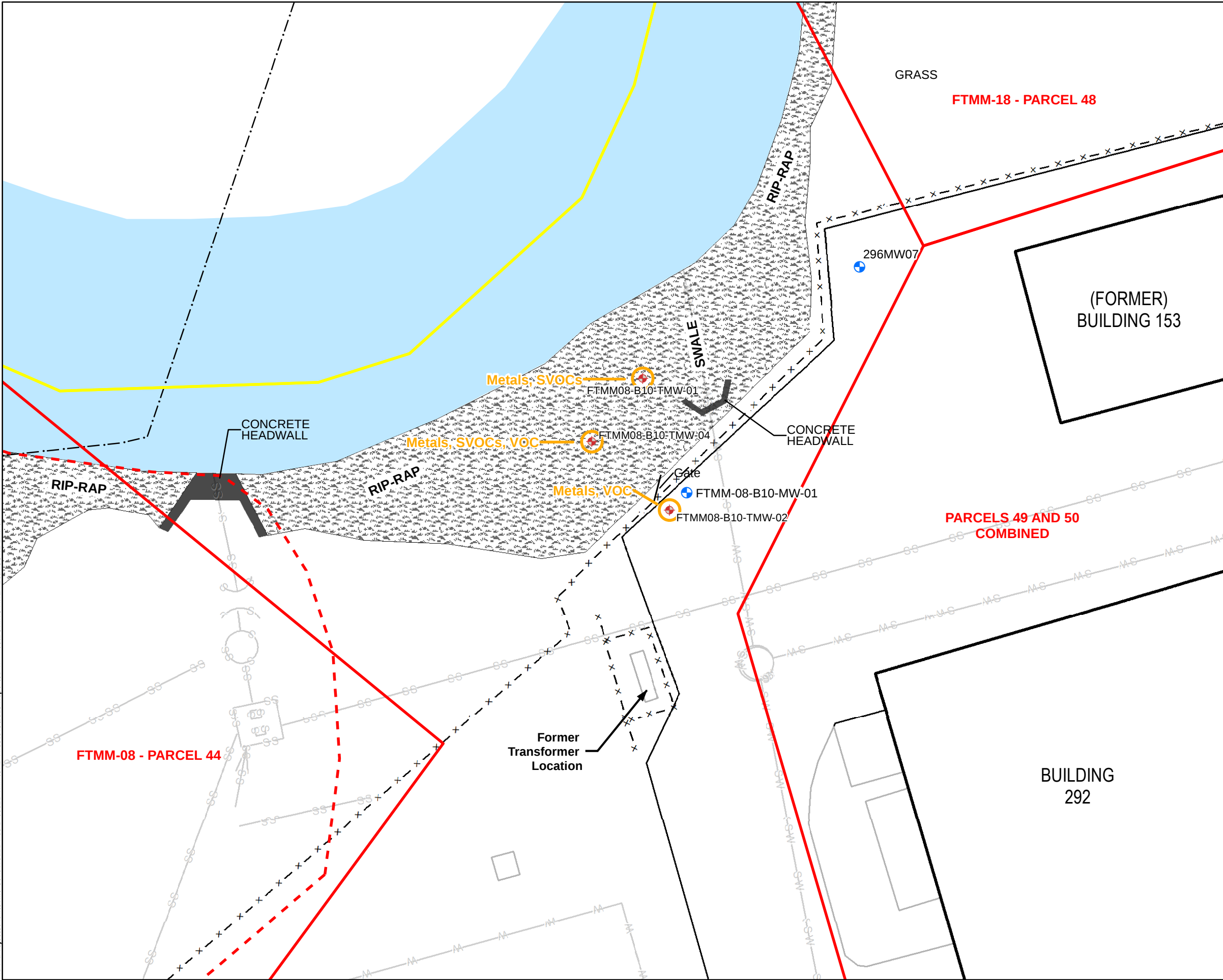
REFERENCES CITED:

1. Department of the Army. 2017. *Letter Work Plan Addendum for FTMM-08 Boring 10 Area, Fort Monmouth, New Jersey*. Prepared by the Office of Assistant Chief of Staff for Installation Management, U.S. Army Fort Monmouth. August 2.
2. NJDEP. 2017. E-mail from Ashish Joshi, re: *FTMM-08 Boring 10 Area*. August 23.
3. Parsons. 2018. E-mails from Kent Friesen, re: *Additional proposed sampling at FTMM-08 Boring 10 Area*. May 8 and 9.
4. NJDEP. 2018. E-mail from Ashish Joshi, re: *Additional proposed sampling at FTMM-08 Boring 10 Area*. May 21.
5. EDAW, Inc., 2008. *Fort Monmouth Reuse and Redevelopment Plan, Final Plan*. Prepared for Fort Monmouth Economic Revitalization Planning Authority. August 22.
6. NJDEP. 2016. re: *Final Remedial Investigation Report for FTMM-08 dated April 2016 (& Landfill Boundary Refinement for FTMM-08 dated January 2016)*. June 3.
7. Weston. 1995. *Site Investigation Report – Main Post and Charles Wood Areas, Fort Monmouth, New Jersey*. December.
8. NJDEP. 2010. Phase-in for the Implementation of the Protocol for ‘Addressing Extractable Petroleum Hydrocarbons’ and the Associated Analytical Method ‘Analysis of Extractable Hydrocarbon Compounds in Aqueous and Soil/Sediment/Sludge Matrices.’ Version 3. August 9.

Figures



P:\PTT\Projects\Huntsville Cont W912.DY-09-D-0062\FTMMCAD Files\GIS\2018 Reports\FTMM-08\BORING AREA 10\Figure 2.mxd

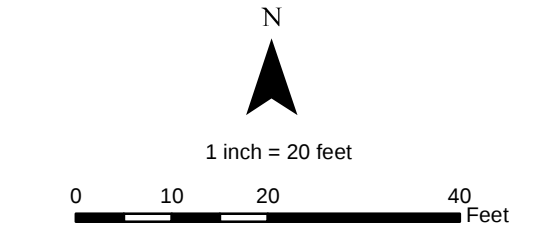


LEGEND:

- Temporary Monitoring Well
- Permanent Monitoring Well
- Groundwater Exceedance
- FTMM-08 Landfill Revised Boundary (2015)
- Municipal Boundary
- Installation Boundary
- Approximate Parcel Boundary
- Existing Fence
- Demolished Fence

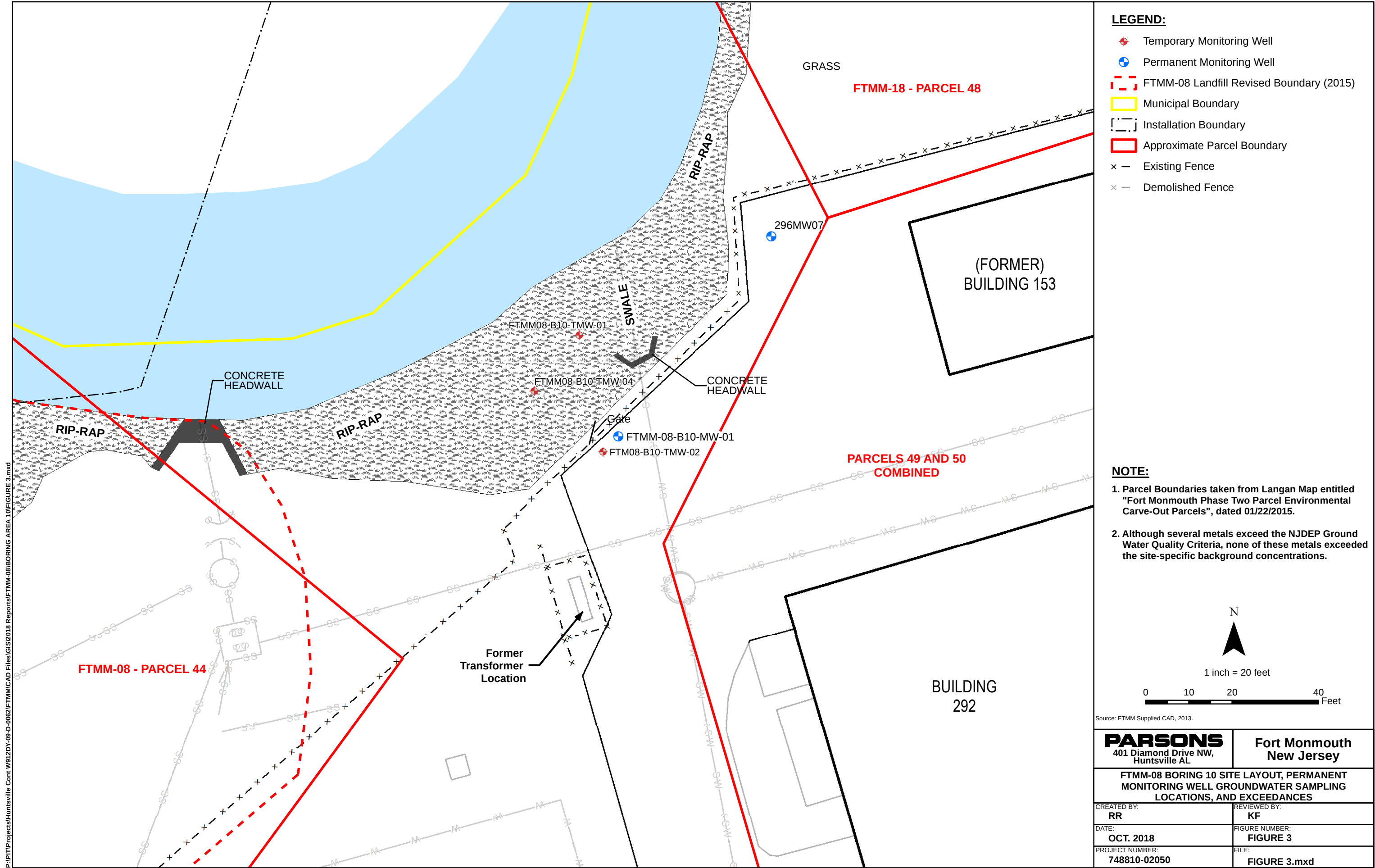
NOTE:

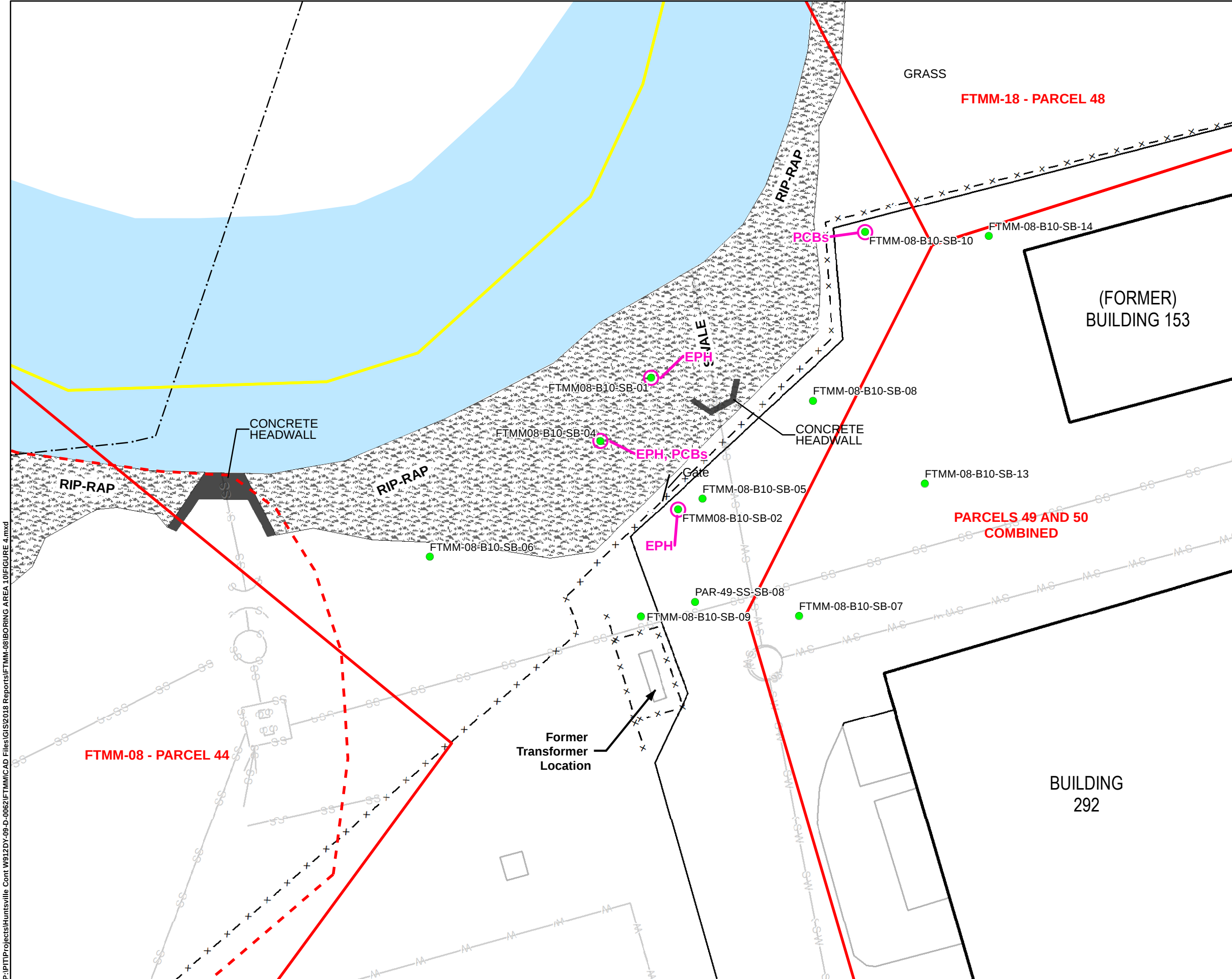
Parcel Boundaries taken from Langan Map entitled "Fort Monmouth Phase Two Parcel Environmental Carve-Out Parcels", dated 01/22/2015.



Source: FTMM Supplied CAD, 2013.

PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey
FTMM-08 BORING 10 LAYOUT, TEMPORARY MONITORING WELL GROUNDWATER SAMPLING LOCATIONS, AND EXCEEDANCES	
CREATED BY: RR	REVIEWED BY: KF
DATE: OCT. 2018	FIGURE NUMBER: FIGURE 2
PROJECT NUMBER: 748810-02050	FILE: FIGURE 2.mxd



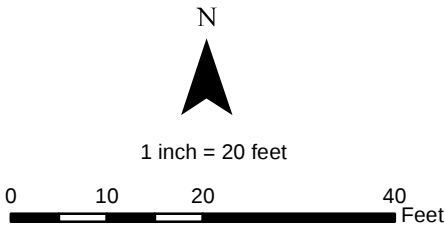


LEGEND:

- Soil Sample Location
- Soil Exceedance
- - - FTMM-08 Landfill Revised Boundary (2015)
- ▭ Municipal Boundary
- [-] Installation Boundary
- ▭ Approximate Parcel Boundary
- × Existing Fence
- × Demolished Fence

NOTE:

Parcel Boundaries taken from Langan Map entitled "Fort Monmouth Phase Two Parcel Environmental Carve-Out Parcels", dated 01/22/2015.



Source: FTMM Supplied CAD, 2013.

PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey
FTMM-08 SOIL SAMPLING LOCATIONS AND EXCEEDANCES	
CREATED BY: RR	REVIEWED BY: KF
DATE: OCT. 2018	FIGURE NUMBER: FIGURE 4
PROJECT NUMBER: 748810-02050	FILE: FIGURE 4.mxd

Tables

Table 1
Groundwater Gauging Data and Elevations (July 30, 2018)
FTMM-08 Boring 10 Area
Fort Monmouth, New Jersey

Site	Well Permit #	Y Coord. (North)	X Coord. (East)	Installation Date	Depth	Well Riser Pipe Casing Length	Well Screen Length	Top of PVC Well Casing (elevation)	Slot Size	Flush Mount or Stick-Up Protective Casing (FM or SU)	Protective Casing Elevation	Ground Surface Elevation	Gauge Time	Gauged Depth to Water	Gauged Depth to Bottom	Calculated Groundwater Elevation	Sampling Date
						(ft.)			inches					(ft. TOC)	(ft. TOC)	(ft.)	
296MW07	29-30973	540363.85	618299.95	7/12/1994	12.50	2.00	10.50	7.37	0.02	FM	N/A	N/A	12:11	5.13	NS	2.24	8/3/2018
FTMM-08B10-MW01	E201804320	540312	618263	5/16/2018	13.00	3.00	10.00	8.35	0.01	FM	8.72	8.72	12:10	6.71	NS	1.64	8/3/2018

Notes:

- The synoptic round of water levels in the wells was collected on January 15, 2018.
- Well information were provided by FTMM for all wells installed before June 2013.
- ft = feet
- TOC = Top of Casing
- Elevation = feet above mean sea level
- N/A = information not available
- NS = Not Sampled
- **Bolded** top of casing elevations represent a mathematical adjustment between earlier NAD systems and the NAD 88 spatial system: the wells were reduced 1.09 feet to reflect the changes in the NAD systems.

TABLE 2
GROUND WATER SAMPLING RESULTS - COMPARISON TO NJDEP GWQC and USEPA TAPWATER RSL (HQ=0.1)
SITE FTMM-08 Boring 10
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Criteria	2017-06 RSL Tap Water (HQ=0.1)	Weston 1995 Background (Main Post)	FTMM08-B10-TMW-01		FTMM08-B10-TMW-02	FTMM08-B10-TMW-04
Sample ID				FTMM-08-B10-TMW-01-3.5	FTMM-08-B10-TMW-101-3.5	FTMM-08-B10-TMW-02-10	FTMM-08-B10-TMW-04-4
Sample Date				11/20/2017	11/20/2017	11/20/2017	11/20/2017
Filtered				Total	Total	Total	Total
Volatile Organic Compounds (µg/l)							
1,1,1,2-Tetrachloroethane	1	0.57	-	< 0.75	< 0.75	< 3.8	< 0.75
1,1,1-Trichloroethane	30	800	-	< 0.75	< 0.75	< 3.8	< 0.75
1,1,2,2-Tetrachloroethane	1	0.076	-	< 0.75	< 0.75	< 3.8	< 0.75
1,1,2-Trichloroethane	3	0.041	-	< 0.75	< 0.75	< 3.8	< 0.75
1,1-Dichloroethane	50	2.8	-	< 0.75	< 0.75	< 3.8	< 0.75
1,1-Dichloroethene	1	28	-	< 0.75	< 0.75	< 3.8	< 0.75
1,1-Dichloropropene	100	NLE	-	< 0.75	< 0.75	< 3.8	< 0.75
1,2,3-Trichlorobenzene	100	0.7	-	< 0.75	< 0.75	< 3.8	< 0.75
1,2,3-Trichloropropane	0.03	0.00075	-	< 2.5	< 2.5	< 12.5	< 2.5
1,2,4-Trichlorobenzene	9	0.4	-	< 0.75	< 0.75	< 3.8	< 0.75
1,2,4-Trimethylbenzene	100	5.6	-	< 0.75	< 0.75	< 3.8	153
1,2-Dibromo-3-chloropropane	0.02	0.00033	-	< 2.5	< 2.5	< 12.5	< 2.5
1,2-Dibromoethane	0.03	0.0075	-	< 0.75	< 0.75	< 3.8	< 0.75
1,2-Dichlorobenzene	600	30	-	< 0.75	< 0.75	< 3.8	2.1
1,2-Dichloroethane	2	0.17	-	< 0.75	< 0.75	< 3.8	< 0.75
1,2-Dichloropropane	1	0.14	-	< 0.75	< 0.75	< 3.8	< 0.75
1,3,5-Trimethylbenzene	100	6	-	< 0.75	< 0.75	< 3.8	< 0.75
1,3-Dichlorobenzene	600	NLE	-	< 0.75	< 0.75	< 3.8	< 0.75
1,3-Dichloropropane	100	37	-	< 0.75	< 0.75	< 3.8	< 0.75
1,4-Dichlorobenzene	75	0.48	-	< 0.75	< 0.75	< 3.8	< 0.75
2,2-Dichloropropane	100	NLE	-	< 0.75	< 0.75	< 3.8	< 0.75
2-Chlorotoluene	100	24	-	< 0.75	< 0.75	< 3.8	< 0.75
Acetone	6,000	1,400	-	5.6	< 3.8	< 18.8	7.1
Benzene	1	0.46	-	< 0.75	< 0.75	< 3.8	0.92 J
Bromobenzene	100	6.2	-	< 0.75	< 0.75	< 3.8	< 0.75
Bromochloromethane	100	8.3	-	< 0.75	< 0.75	< 3.8	< 0.75
Bromodichloromethane	1	0.13	-	< 0.75	< 0.75	< 3.8	< 0.75
Bromoform	4	3.3	-	< 0.75	< 0.75	< 3.8	< 0.75
Carbon tetrachloride	1	0.46	-	< 0.75	< 0.75	< 3.8	< 0.75
Chlorobenzene	50	7.8	-	< 0.75	< 0.75	< 3.8	< 0.75
Chlorodibromomethane	1	0.87	-	< 0.75	< 0.75	< 3.8	< 0.75
Chloroethane	5	2,100	-	< 0.75	< 0.75	< 3.8	< 0.75
Chloroform	70	0.22	-	< 0.75	< 0.75	< 3.8	< 0.75
Cis-1,2-Dichloroethene	70	3.6	-	< 0.75	< 0.75	< 3.8	< 0.75
Cis-1,3-Dichloropropene	1	NLE	-	< 0.75	< 0.75	< 3.8	< 0.75
Cymene	100	NLE	-	< 0.75	< 0.75	< 3.8	< 0.75
Dichlorodifluoromethane	1,000	20	-	< 0.75	< 0.75	< 3.8	< 0.75
Ethyl benzene	700	1.5	-	< 0.75	< 0.75	< 3.8	< 0.75
Hexachlorobutadiene	1	0.14	-	< 3.8	< 3.8	5.3 J	< 3.8
Isopropylbenzene	700	45	-	< 0.75	< 0.75	< 3.8	12.2
Meta/Para Xylene	1,000	19	-	< 1.5	< 1.5	< 7.5	< 1.5
Methyl bromide	10	0.75	-	0.43 J	0.45 J	2.1 J	0.52 J
Methyl butyl ketone	300	3.8	-	< 3.8	< 3.8	< 18.8	< 3.8
Methyl chloride	100	19	-	< 0.75	< 0.75	< 3.8	< 0.75
Methyl ethyl ketone	300	560	-	< 3.8	< 3.8	< 18.8	< 3.8
Methyl isobutyl ketone	100	630	-	< 3.8	< 3.8	< 18.8	< 3.8
Methyl Tertbutyl Ether	70	14	-	< 0.75	< 0.75	< 3.8	< 0.75
Methylene chloride	3	11	-	< 0.75	< 0.75	< 3.8	< 0.75
Naphthalene	300	0.17	-	< 0.75	< 0.75	< 3.8	2.4
n-Butylbenzene	100	100	-	< 0.75	< 0.75	< 3.8	< 0.75
Ortho Xylene	1,000	19	-	< 0.75	< 0.75	< 3.8	< 0.75
p-Chlorotoluene	100	25	-	< 0.75	< 0.75	< 3.8	< 0.75

TABLE 2
GROUND WATER SAMPLING RESULTS - COMPARISON TO NJDEP GWQC and USEPA TAPWATER RSL (HQ=0.1)
SITE FTMM-08 Boring 10
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Criteria	2017-06 RSL Tap Water (HQ=0.1)	Weston 1995 Background (Main Post)	FTMM08-B10-TMW-01		FTMM08-B10-TMW-02	FTMM08-B10-TMW-04
Sample ID				FTMM-08-B10-TMW-01-3.5	FTMM-08-B10-TMW-101-3.5	FTMM-08-B10-TMW-02-10	FTMM-08-B10-TMW-04-4
Sample Date				11/20/2017	11/20/2017	11/20/2017	11/20/2017
Filtered				Total	Total	Total	Total
Propylbenzene	100	66	-	< 0.75	< 0.75	< 3.8	23.2
sec-Butylbenzene	100	200	-	0.43 J	< 0.75	< 3.8	8.8
Styrene	100	120	-	< 0.75	< 0.75	< 3.8	< 0.75
Tert Butyl Alcohol	100	NLE	-	< 12.5	< 12.5	< 62.5	< 12.5
tert-Butylbenzene	100	69	-	< 0.75	< 0.75	< 3.8	< 0.75
Tetrachloroethene	1	4.1	-	< 0.75	< 0.75	< 3.8	< 0.75
Toluene	600	110	-	< 0.75	< 0.75	< 3.8	< 0.75
Total Xylenes	1,000	19	-	< 2.3	< 2.3	< 11.3	< 2.3
Trans-1,2-Dichloroethene	100	36	-	< 0.75	< 0.75	< 3.8	< 0.75
Trans-1,3-Dichloropropene	1	NLE	-	< 0.75	< 0.75	< 3.8	< 0.75
Trichloroethene	1	0.28	-	< 0.75	< 0.75	< 3.8	< 0.75
Trichlorofluoromethane	2,000	520	-	< 0.75	< 0.75	< 3.8	< 0.75
Vinyl chloride	1	0.019	-	< 0.75	< 0.75	< 3.8	< 0.75
TIC VOCs (µg/l)							
Total TICs VOCs	500	NLE		2.4 JN	NA	NA	246.7 JN
Semivolatile Organic Compounds (µg/l)							
1,2,4-Trichlorobenzene	9	0.4	-	< 0.94	< 0.93	< 6.7	< 2
1,2-Dichlorobenzene	600	30	-	< 0.94	< 0.93	< 6.7	2 J
1,2-Diphenylhydrazine	20	0.078	-	< 0.94	< 0.93	< 6.7	< 2
1,3-Dichlorobenzene	600	NLE	-	< 0.94	< 0.93	< 6.7	< 2
1,4-Dichlorobenzene	75	0.48	-	< 0.94	< 0.93	< 6.7	0.47 J
2,4,5-Trichlorophenol	700	120	-	< 2.8	< 2.8	< 20	< 6
2,4,6-Trichlorophenol	20	1.2	-	< 0.94	< 0.93	< 6.7	< 2
2,4-Dichlorophenol	20	4.6	-	< 0.94	< 0.93	< 6.7	< 2
2,4-Dimethylphenol	100	36	-	< 4.7	< 4.6	< 33.3	< 10
2,4-Dinitrophenol	40	3.9	-	< 7.5	< 7.4	< 53.3	< 16
2,4-Dinitrotoluene	10	0.24	-	< 0.94	< 0.93	< 6.7	< 2
2,6-Dinitrotoluene	10	0.049	-	< 0.94	< 0.93	< 6.7	< 2
2-Chloronaphthalene	600	75	-	< 0.94	< 0.93	< 6.7	< 2
2-Chlorophenol	40	9.1	-	< 1.9	< 1.9	< 13.3	< 4
2-Methylnaphthalene	30	3.6	-	< 0.94	< 0.93	< 6.7	41.6
2-Methylphenol	100	93	-	< 0.94	< 0.93	< 6.7	< 2
2-Nitroaniline	100	19	-	< 0.94	< 0.93	< 6.7	< 2
2-Nitrophenol	100	NLE	-	< 1.9	< 1.9	< 13.3	< 4
3,3'-Dichlorobenzidine	30	0.13	-	< 2.8	< 2.8	< 20	< 6
3-Nitroaniline	100	NLE	-	< 1.9	< 1.9	< 13.3	< 4
4,6-Dinitro-2-methylphenol	1	0.15	-	< 4.7	< 4.6	< 33.3	< 10
4-Bromophenyl phenyl ether	100	NLE	-	< 0.94	< 0.93	< 6.7	< 2
4-Chloro-3-methylphenol	100	140	-	< 0.94	< 0.93	< 6.7	< 2
4-Chloroaniline	30	0.37	-	< 0.94	< 0.93	< 6.7	< 2
4-Chlorophenyl phenyl ether	100	NLE	-	< 0.94	< 0.93	< 6.7	< 2
4-Nitroaniline	5	3.8	-	< 0.94	< 0.93	< 6.7	< 2
4-Nitrophenol	100	NLE	-	< 4.7	< 4.6	< 33.3	< 10
Acenaphthene	400	53	-	< 0.94	0.43 J	< 6.7	< 2
Acenaphthylene	100	NLE	-	< 0.94	0.67 J	< 6.7	< 2
Anthracene	2,000	180	-	< 0.94	< 0.93	< 6.7	< 2
Benzidine	20	0.00011	-	< 28.3	< 27.8	< 200	< 60
Benzo(a)anthracene	0.1	0.03	-	< 0.94	< 0.93	< 6.7	< 2
Benzo(a)pyrene	0.1	0.025	-	< 0.94	< 0.93	< 6.7	< 2
Benzo(b)fluoranthene	0.2	0.25	-	< 0.94	< 0.93	< 6.7	< 2
Benzo(ghi)perylene	100	NLE	-	< 0.94	< 0.93	< 6.7	< 2
Benzo(k)fluoranthene	0.5	2.5	-	< 0.94	< 0.93	< 6.7	< 2
Benzyl alcohol	2,000	200	-	< 1.9	< 1.9	< 13.3	< 4
Bis(2-Chloroethoxy)methane	100	5.9	-	< 0.94	< 0.93	< 6.7	< 2

TABLE 2
GROUND WATER SAMPLING RESULTS - COMPARISON TO NJDEP GWQC and USEPA TAPWATER RSL (HQ=0.1)
SITE FTMM-08 Boring 10
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Criteria	2017-06 RSL Tap Water (HQ=0.1)	Weston 1995 Background (Main Post)	FTMM08-B10-TMW-01		FTMM08-B10-TMW-02	FTMM08-B10-TMW-04
Sample ID				FTMM-08-B10-TMW-01-3.5	FTMM-08-B10-TMW-101-3.5	FTMM-08-B10-TMW-02-10	FTMM-08-B10-TMW-04-4
Sample Date				11/20/2017	11/20/2017	11/20/2017	11/20/2017
Filtered				Total	Total	Total	Total
Bis(2-Chloroethyl)ether	7	0.014	-	< 0.94	< 0.93	< 6.7	< 2
Bis(2-Chloroisopropyl)ether	300	71	-	< 0.94	< 0.93	< 6.7	< 2
Bis(2-Ethylhexyl)phthalate	3	5.6	-	1.7 J	< 0.93	< 6.7	< 2
Butyl benzyl phthalate	100	16	-	< 0.94	< 0.93	< 6.7	< 2
Carbazole	100	NLE	-	< 0.94	< 0.93	< 6.7	< 2
Chrysene	5	25	-	< 0.94	< 0.93	< 6.7	< 2
Cresol	NLE	NLE	-	< 0.94	< 0.93	< 6.7	< 2
Dibenz(a,h)anthracene	0.3	0.025	-	< 0.94	< 0.93	< 6.7	< 2
Dibenzofuran	100	0.79	-	< 0.94	< 0.93	< 6.7	< 2
Diethyl phthalate	6,000	1,500	-	< 0.94	< 0.93	< 6.7	< 2
Dimethyl phthalate	100	NLE	-	< 0.94	< 0.93	< 6.7	< 2
Di-n-butylphthalate	700	90	-	0.65 J	2.3 J	< 6.7	< 2
Di-n-octylphthalate	100	20	-	< 0.94	< 0.93	< 6.7	< 2
Fluoranthene	300	80	-	0.7 J	2.2	< 6.7	8.2
Fluorene	300	29	-	0.38 J	0.95 J	< 6.7	5.5
Hexachlorobenzene	0.02	0.0098	-	< 0.94	< 0.93	< 6.7	< 2
Hexachlorobutadiene	1	0.14	-	< 0.94	< 0.93	< 6.7	< 2
Hexachlorocyclopentadiene	40	0.041	-	< 1.9	< 1.9	< 13.3	< 4
Hexachloroethane	7	0.33	-	< 0.94	< 0.93	< 6.7	< 2
Indeno(1,2,3-cd)pyrene	0.2	0.25	-	< 0.94	< 0.93	< 6.7	< 2
Isophorone	40	78	-	< 0.94	< 0.93	< 6.7	< 2
Naphthalene	300	0.17	-	< 0.94	< 0.93	< 6.7	0.55 J
Nitrobenzene	6	0.14	-	< 1.9	< 1.9	< 13.3	< 4
N-Nitrosodimethylamine	0.8	0.00011	-	< 1.9	< 1.9	< 13.3	< 4
N-Nitroso-di-n-propylamine	10	0.011	-	< 0.94	< 0.93	< 6.7	< 2
N-Nitrosodiphenylamine	10	12	-	< 1.9	< 1.9	< 13.3	< 4
Pentachlorophenol	0.3	0.041	-	4.4 J	10.5 J	< 53.3	< 16
Phenanthrene	100	NLE	-	< 0.94	< 0.93	< 6.7	19.6
Phenol	2,000	580	-	< 0.94	< 0.93	< 6.7	< 2
Pyrene	200	12	-	< 0.94	< 0.93	< 6.7	< 2
TIC SVOCs (µg/l)							
Total SVOC TICs				144 JN	521 JN	75.4 J	934.1 JN
Extractable/Volatile Petroleum Hydrocarbons (mg/l)							
EPH (C9-C40)	NLE	NLE	-	NA	NA	NA	NA
PCBs (µg/l)							
Aroclor-1016	0.5	0.14	-	NA	NA	NA	NA
Aroclor-1221	0.5	0.0047	-	NA	NA	NA	NA
Aroclor-1232	0.5	0.0047	-	NA	NA	NA	NA
Aroclor-1242	0.5	0.0078	-	NA	NA	NA	NA
Aroclor-1248	0.5	0.0078	-	NA	NA	NA	NA
Aroclor-1254	0.5	0.0078	-	NA	NA	NA	NA
Aroclor-1260	0.5	0.0078	-	NA	NA	NA	NA
Total PCBs	NLE	NLE	-	NA	NA	NA	NA
Inorganics (µg/l)							
Aluminum	200	2,000	121,000	7,030	6,920	127,000	135,000
Antimony	6	0.78	20.7	< 14	< 14	< 14	< 70
Arsenic	3	0.052	89.3	38.2	39.4	83.4	92.2 J
Barium	6,000	380	699	154	160	4,880	1,220
Beryllium	1	2.5	2.1	< 2.9	< 2.9	41.6	43.3
Cadmium	4	0.92	9.5	3.3	3.7	106	21.7
Calcium	NLE	NLE	45,400	33,000	33,000	114,000	55,000
Chromium	70	2,200	191	105	104	423	1,220
Cobalt	100	0.6	18.3	7	7.1	54.6	51.1
Copper	1,300	80	65.6	37	39.8	234	77.2

TABLE 2
GROUND WATER SAMPLING RESULTS - COMPARISON TO NJDEP GWQC and USEPA TAPWATER RSL (HQ=0.1)
SITE FTMM-08 Boring 10
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Criteria	2017-06 RSL Tap Water (HQ=0.1)	Weston 1995 Background (Main Post)	FTMM08-B10-TMW-01		FTMM08-B10-TMW-02	FTMM08-B10-TMW-04
Sample ID				FTMM-08-B10-TMW-01-3.5	FTMM-08-B10-TMW-101-3.5	FTMM-08-B10-TMW-02-10	FTMM-08-B10-TMW-04-4
Sample Date				11/20/2017	11/20/2017	11/20/2017	11/20/2017
Filtered				Total	Total	Total	Total
Iron	300	1,400	431,000	47,100	47,100	290,000	852,000
Lead	5	15	22.7	41.7	38.1	952	187
Magnesium	NLE	NLE	62,700	43,600	43,700	23,500	14,000
Manganese	50	43	331	181	187	824	1,200
Mercury	2	0.57	0.26	0.22 J	0.26 J	1.9	0.54
Nickel	100	39	187	15.6 J	16.2 J	173	177
Potassium	NLE	NLE	137,000	16,800	16,400	16,600	13,700
Selenium	40	10	29.6	< 14	< 14	< 14	< 70
Silver	40	9.4	ND	< 2.9	< 2.9	< 2.9	< 14.5
Sodium	50,000	NLE	21,500	382,000	374,000	92,700	87,600
Thallium	2	0.02	5.5	10.2 J	< 14	< 14	90 J
Vanadium	NLE	8.6	108	68.3	69	611	1,590
Zinc	2,000	600	233	479	505	4,090	7,190

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 detection
- 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 concentration 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.

a) DELETE THIS NOTE BEFORE GOING FINAL: Refer to the NJDEP Protocol for Addressing Extractable Petroleum Hydrocarbons (Version 5.0, August 9, 2010) and the NJDEP Health Based and Ecological Screening Criteria for Petroleum Hydrocarbons (Version 4.0, August 9, 2010) to determine the category of tank being investigated and the appropriate cleanup standards or screening levels for that category of tank.

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 Ground Water Quality Criteria

####

NJDEP Interim Specific GWQC values are presented for the NJ GWQS where there is not a Specific Ground Water Quality Criteria. A full list of compounds is available at (http://www.nj.gov/depl/wms/bwqsa/gwqs_interim_criteria_table.htm).

NJDEP Interim Generic GWQC values are presented for the NJ GWQS where there is not a XXXXX or a NJDEP Interim Specific GWQC. Available at (http://www.nj.gov/depl/wms/bwqsa/gwqs_interim_criteria_table.htm).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Tap Water (HQ=0.1).

###

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

###

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

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

- Cell Shade values represent a result that is above both the NJ Ground Water Quality Criteria and USEPA 2017-06 RSL Tap Water (HQ=0.1).

###

10) Criteria action level source document and web address.

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

<http://www.state.nj.us/depl/wms/bwqsa/docs/njac79C.pdf>

- The 2017-06 USEPA RSL Tap Water (HQ=0.1) refers to the USEPA's Regional Screening Levels (HQ=0.1)

<https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables-november-2017>

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

NA

Table 3
GROUND WATER SAMPLING SUMMARY OF USEPA/NJDEP EXCEEDANCES
SITE FTMM-08 Boring 10
FORT MONMOUTH, NEW JERSEY

Analyte	Maximum Detected Concentration		Location of Maximum Concentration	Sample Date	Number of Samples	Number of Detections	NJ Ground Water Quality Criteria		2017-06 RSL Tap Water (HQ=0.1)		Weston 1995 Background (Main Post)	
							Action Level	Num of Detects Above Standard-1	Action Level	Num of Detects Above Standard-2	Action Level	Num of Detects Above Standard-3
Volatile Organic Compounds (µg/l)												
1,2,4-Trimethylbenzene	153		FTMM08-B10-TMW-04	11/20/2017	4	1	100	1	5.6	1	-	n/a
Benzene	0.92	J	FTMM08-B10-TMW-04	11/20/2017	4	1	1	0	0.46	1	-	n/a
Hexachlorobutadiene	5.3	J	FTMM08-B10-TMW-02	11/20/2017	4	1	1	1	0.14	1	-	n/a
Methyl bromide	2.1	J	FTMM08-B10-TMW-02	11/20/2017	4	4	10	0	0.75	1	-	n/a
Naphthalene	2.4		FTMM08-B10-TMW-04	11/20/2017	4	1	300	0	0.17	1	-	n/a
TIC VOCs (µg/l) (None Above Standard)												
Semivolatile Organic Compounds (µg/l)												
2-Methylnaphthalene	41.6		FTMM08-B10-TMW-04	11/20/2017	4	1	30	1	3.6	1	-	n/a
Naphthalene	0.55	J	FTMM08-B10-TMW-04	11/20/2017	4	1	300	0	0.17	1	-	n/a
Pentachlorophenol	10.5	J	FTMM08-B10-TMW-01	11/20/2017	4	2	0.3	2	0.041	2	-	n/a
TIC SVOCs (µg/l)												
1,2,4-Trimethylbenzene	55.8	JN	FTMM08-B10-TMW-04	11/20/2017	1	1	100	0	5.6	1	-	n/a
EPH (Not Analyzed) (mg/l)												
PCBs (Not Analyzed) (µg/l)												
Inorganics (µg/l)												
Aluminum	135,000		FTMM08-B10-TMW-04	11/20/2017	4	4	200	4	2,000	4	121,000	2
Arsenic	92.2	J	FTMM08-B10-TMW-04	11/20/2017	4	4	3	4	0.052	4	89.3	1
Barium	4,880		FTMM08-B10-TMW-02	11/20/2017	4	4	6,000	0	380	2	699	2
Beryllium	43.3		FTMM08-B10-TMW-04	11/20/2017	4	2	1	2	2.5	2	2.1	2
Cadmium	106		FTMM08-B10-TMW-02	11/20/2017	4	4	4	2	0.92	4	9.5	2
Calcium	114,000		FTMM08-B10-TMW-02	11/20/2017	4	4	NLE	NLE	NLE	NLE	45,400	2
Chromium	1,220		FTMM08-B10-TMW-04	11/20/2017	4	4	70	4	2,200	0	191	2
Cobalt	54.6		FTMM08-B10-TMW-02	11/20/2017	4	4	100	0	0.6	4	18.3	2
Copper	234		FTMM08-B10-TMW-02	11/20/2017	4	4	1,300	0	80	1	65.6	2
Iron	852,000		FTMM08-B10-TMW-04	11/20/2017	4	4	300	4	1,400	4	431,000	1
Lead	952		FTMM08-B10-TMW-02	11/20/2017	4	4	5	4	15	4	22.7	4
Manganese	1,200		FTMM08-B10-TMW-04	11/20/2017	4	4	50	4	43	4	331	2
Mercury	1.9		FTMM08-B10-TMW-02	11/20/2017	4	4	2	0	0.57	1	0.26	2
Nickel	177		FTMM08-B10-TMW-04	11/20/2017	4	4	100	2	39	2	187	0
Sodium	382,000		FTMM08-B10-TMW-01	11/20/2017	4	4	50,000	4	NLE	NLE	21,500	4
Thallium	90	J	FTMM08-B10-TMW-04	11/20/2017	4	2	2	2	0.02	2	5.5	2
Vanadium	1,590		FTMM08-B10-TMW-04	11/20/2017	4	4	NLE	NLE	8.6	4	108	2
Zinc	7,190		FTMM08-B10-TMW-04	11/20/2017	4	4	2,000	2	600	2	233	4

1) Summary Statistics presents only results that were above (at least one) standard and were obtained from Summary Statistics Sheet.

TABLE 4
GROUND WATER SAMPLING RESULTS - COMPARISON TO NJDEP GWQC and USEPA Tapwater RSL
FTMM-08 Boring 10
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Criteria	2017-06 RSL Tap Water (HQ=0.1)	Weston 1995 Background (Main Post)	FTMM08-B10-MW01	296MW07	
Sample ID				FTMM-08-B10-GW-MW-01-10.8	FTMM-08-GW-296MW07-8.7	FTMM-08-GW-296MW107-8.7
Sample Date				8/3/2018	8/3/2018	8/3/2018
Filtered				Total	Total	Total
Volatile Organic Compounds (µg/l)						
1,1,1,2-Tetrachloroethane	1	0.57	-	< 0.75	< 0.75	< 0.75
1,1,1-Trichloroethane	30	800	-	< 0.75	< 0.75	< 0.75
1,1,2,2-Tetrachloroethane	1	0.076	-	< 0.75	< 0.75	< 0.75
1,1,2-Trichloroethane	3	0.041	-	< 0.75	< 0.75	< 0.75
1,1-Dichloroethane	50	2.8	-	< 0.75	< 0.75	< 0.75
1,1-Dichloroethene	1	28	-	< 0.75	< 0.75	< 0.75
1,1-Dichloropropene	100	NLE	-	< 0.75	< 0.75	< 0.75
1,2,3-Trichlorobenzene	100	0.7	-	< 0.75	< 0.75	< 0.75
1,2,3-Trichloropropane	0.03	0.00075	-	< 2.5	< 2.5	< 2.5
1,2,4-Trichlorobenzene	9	0.4	-	< 0.75	< 0.75	< 0.75
1,2,4-Trimethylbenzene	100	5.6	-	< 0.75	< 0.75	< 0.75
1,2-Dibromo-3-chloropropane	0.02	0.00033	-	< 2.5	< 2.5	< 2.5
1,2-Dibromoethane	0.03	0.0075	-	< 0.75	< 0.75	< 0.75
1,2-Dichlorobenzene	600	30	-	< 0.75	< 0.75	< 0.75
1,2-Dichloroethane	2	0.17	-	< 0.75	< 0.75	< 0.75
1,2-Dichloropropane	1	0.14	-	< 0.75	< 0.75	< 0.75
1,3,5-Trimethylbenzene	100	6	-	< 0.75	< 0.75	< 0.75
1,3-Dichlorobenzene	600	NLE	-	< 0.75	< 0.75	< 0.75
1,3-Dichloropropane	100	37	-	< 0.75	< 0.75	< 0.75
1,4-Dichlorobenzene	75	0.48	-	< 0.75	< 0.75	< 0.75
2,2-Dichloropropane	100	NLE	-	< 0.75	< 0.75	< 0.75
2-Chlorotoluene	100	24	-	< 0.75	< 0.75	< 0.75
Acetone	6,000	1,400	-	< 3.8	< 3.8	< 3.8
Benzene	1	0.46	-	< 0.75	< 0.75	< 0.75
Bromobenzene	100	6.2	-	< 0.75	< 0.75	< 0.75
Bromochloromethane	100	8.3	-	< 0.75	< 0.75	< 0.75
Bromodichloromethane	1	0.13	-	< 0.75	< 0.75	< 0.75
Bromoform	4	3.3	-	< 0.75	< 0.75	< 0.75
Carbon tetrachloride	1	0.46	-	< 0.75	< 0.75	< 0.75
Chlorobenzene	50	7.8	-	< 0.75	< 0.75	< 0.75
Chlorodibromomethane	1	0.87	-	< 0.75	< 0.75	< 0.75
Chloroethane	5	2,100	-	< 0.75	< 0.75	< 0.75
Chloroform	70	0.22	-	< 0.75	< 0.75	< 0.75
Cis-1,2-Dichloroethene	70	3.6	-	< 0.75	< 0.75	< 0.75
Cis-1,3-Dichloropropene	1	NLE	-	< 0.75	< 0.75	< 0.75
Cymene	100	NLE	-	< 0.75	< 0.75	< 0.75
Dichlorodifluoromethane	1,000	20	-	< 0.75	< 0.75	< 0.75
Ethyl benzene	700	1.5	-	< 0.75	< 0.75	< 0.75
Hexachlorobutadiene	1	0.14	-	< 3.8	< 3.8	< 3.8
Isopropylbenzene	700	45	-	< 0.75	< 0.75	< 0.75
Meta/Para Xylene	1,000	19	-	< 1.5	< 1.5	< 1.5
Methyl bromide	10	0.75	-	< 0.75	< 0.75	< 0.75
Methyl butyl ketone	300	3.8	-	< 3.8	< 3.8	< 3.8
Methyl chloride	100	19	-	< 0.75	< 0.75	< 0.75

TABLE 4
GROUND WATER SAMPLING RESULTS - COMPARISON TO NJDEP GWQC and USEPA Tapwater RSL
FTMM-08 Boring 10
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Criteria	2017-06 RSL Tap Water (HQ=0.1)	Weston 1995 Background (Main Post)	FTMM08-B10-MW01	296MW07	
Sample ID				FTMM-08-B10-GW-MW-01-10.8	FTMM-08-GW-296MW07-8.7	FTMM-08-GW-296MW107-8.7
Sample Date				8/3/2018	8/3/2018	8/3/2018
Filtered				Total	Total	Total
Methyl ethyl ketone	300	560	-	< 3.8	< 3.8	< 3.8
Methyl isobutyl ketone	100	630	-	< 3.8	< 3.8	< 3.8
Methyl Tertbutyl Ether	70	14	-	< 0.75	< 0.75	< 0.75
Methylene chloride	3	11	-	< 0.75	< 0.75	< 0.75
Naphthalene	300	0.17	-	< 0.75	< 0.75	< 0.75
n-Butylbenzene	100	100	-	< 0.75	< 0.75	< 0.75
Ortho Xylene	1,000	19	-	< 0.75	< 0.75	< 0.75
p-Chlorotoluene	100	25	-	< 0.75	< 0.75	< 0.75
Propylbenzene	100	66	-	< 0.75	< 0.75	< 0.75
sec-Butylbenzene	100	200	-	< 0.75	< 0.75	< 0.75
Styrene	100	120	-	< 0.75	< 0.75	< 0.75
Tert Butyl Alcohol	100	NLE	-	< 12.5 UJ	< 12.5 UJ	< 12.5 UJ
tert-Butylbenzene	100	69	-	< 0.75	< 0.75	< 0.75
Tetrachloroethene	1	4.1	-	< 0.75	< 0.75	< 0.75
Toluene	600	110	-	< 0.75	< 0.75	< 0.75
Total Xylenes	1,000	19	-	< 2.3	< 2.3	< 2.3
Trans-1,2-Dichloroethene	100	36	-	< 0.75	< 0.75	< 0.75
Trans-1,3-Dichloropropene	1	NLE	-	< 0.75	< 0.75	< 0.75
Trichloroethene	1	0.28	-	< 0.75	< 0.75	< 0.75
Trichlorofluoromethane	2,000	520	-	< 0.75	< 0.75	< 0.75
Vinyl chloride	1	0.019	-	< 0.75	< 0.75	< 0.75
TIC VOCs (µg/l)						
Total TIC VOCs				NA	NA	NA
Semivolatile Organic Compounds (µg/l)						
1,2,4-Trichlorobenzene	9	0.4	-	< 0.97	< 0.96	< 1
1,2-Dichlorobenzene	600	30	-	< 0.97	< 0.96	< 1
1,2-Diphenylhydrazine	20	0.078	-	< 0.97	< 0.96	< 1
1,3-Dichlorobenzene	600	NLE	-	< 0.97	< 0.96	< 1
1,4-Dichlorobenzene	75	0.48	-	< 0.97	< 0.96	< 1
2,4,5-Trichlorophenol	700	120	-	< 2.9	< 2.9	< 3.1
2,4,6-Trichlorophenol	20	1.2	-	< 0.97	< 0.96	< 1
2,4-Dichlorophenol	20	4.6	-	< 0.97	< 0.96	< 1
2,4-Dimethylphenol	100	36	-	< 4.8	< 4.8	< 5.2
2,4-Dinitrophenol	40	3.9	-	< 7.7	< 7.7	< 8.4
2,4-Dinitrotoluene	10	0.24	-	< 0.97	< 0.96	< 1
2,6-Dinitrotoluene	10	0.049	-	< 0.97	< 0.96	< 1
2-Chloronaphthalene	600	75	-	< 0.97	< 0.96	< 1
2-Chlorophenol	40	9.1	-	< 1.9	< 1.9	< 2.1
2-Methylnaphthalene	30	3.6	-	< 0.97	< 0.96	< 1
2-Methylphenol	100	93	-	< 0.97	< 0.96	< 1
2-Nitroaniline	100	19	-	< 0.97	< 0.96	< 1
2-Nitrophenol	100	NLE	-	< 1.9	< 1.9	< 2.1
3,3'-Dichlorobenzidine	30	0.13	-	< 2.9	< 2.9	< 3.1
3-Nitroaniline	100	NLE	-	< 1.9	< 1.9	< 2.1
4,6-Dinitro-2-methylphenol	1	0.15	-	< 4.8	< 4.8	< 5.2
4-Bromophenyl phenyl ether	100	NLE	-	< 0.97	< 0.96	< 1

TABLE 4
GROUND WATER SAMPLING RESULTS - COMPARISON TO NJDEP GWQC and USEPA Tapwater RSL
FTMM-08 Boring 10
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Criteria	2017-06 RSL Tap Water (HQ=0.1)	Weston 1995 Background (Main Post)	FTMM08-B10-MW01	296MW07	
Sample ID				FTMM-08-B10-GW-MW-01-10.8	FTMM-08-GW-296MW07-8.7	FTMM-08-GW-296MW107-8.7
Sample Date				8/3/2018	8/3/2018	8/3/2018
Filtered				Total	Total	Total
4-Chloro-3-methylphenol	100	140	-	< 0.97	< 0.96	< 1
4-Chloroaniline	30	0.37	-	< 0.97	< 0.96	< 1
4-Chlorophenyl phenyl ether	100	NLE	-	< 0.97	< 0.96	< 1
4-Nitroaniline	5	3.8	-	< 0.97	< 0.96	< 1
4-Nitrophenol	100	NLE	-	< 4.8	< 4.8	< 5.2
Acenaphthene	400	53	-	< 0.97	< 0.96	< 1
Acenaphthylene	100	NLE	-	< 0.97	< 0.96	< 1
Anthracene	2,000	180	-	< 0.97	< 0.96	< 1
Benzidine	20	0.00011	-	< 29	< 28.8	< 31.4
Benzo(a)anthracene	0.1	0.03	-	< 0.97	< 0.96	< 1
Benzo(a)pyrene	0.1	0.025	-	< 0.97	< 0.96	< 1
Benzo(b)fluoranthene	0.2	0.25	-	< 0.97	< 0.96	< 1
Benzo(ghi)perylene	100	NLE	-	< 0.97	< 0.96	< 1
Benzo(k)fluoranthene	0.5	2.5	-	< 0.97	< 0.96	< 1
Benzyl alcohol	2,000	200	-	< 1.9	< 1.9	< 2.1
Bis(2-Chloroethoxy)methane	100	5.9	-	< 0.97	< 0.96	< 1
Bis(2-Chloroethyl)ether	7	0.014	-	< 0.97	< 0.96	< 1
Bis(2-Chloroisopropyl)ether	300	71	-	< 0.97	< 0.96	< 1
Bis(2-Ethylhexyl)phthalate	3	5.6	-	< 0.97	< 0.96	< 1
Butyl benzyl phthalate	100	16	-	< 0.97	< 0.96	< 1
Carbazole	100	NLE	-	< 0.97	< 0.96	< 1
Chrysene	5	25	-	< 0.97	< 0.96	< 1
Cresol	NLE	NLE	-	< 0.97	< 0.96	< 1
Dibenz(a,h)anthracene	0.3	0.025	-	< 0.97	< 0.96	< 1
Dibenzofuran	100	0.79	-	< 0.97	< 0.96	< 1
Diethyl phthalate	6,000	1,500	-	< 0.97	< 0.96	< 1
Dimethyl phthalate	100	NLE	-	< 0.97	< 0.96	< 1
Di-n-butylphthalate	700	90	-	< 0.97	< 0.96	< 1
Di-n-octylphthalate	100	20	-	< 0.97	< 0.96	< 1
Fluoranthene	300	80	-	< 0.97	< 0.96	< 1
Fluorene	300	29	-	< 0.97	< 0.96	< 1
Hexachlorobenzene	0.02	0.0098	-	< 0.97	< 0.96	< 1
Hexachlorobutadiene	1	0.14	-	< 0.97	< 0.96	< 1
Hexachlorocyclopentadiene	40	0.041	-	< 1.9	< 1.9	< 2.1
Hexachloroethane	7	0.33	-	< 0.97	< 0.96	< 1
Indeno(1,2,3-cd)pyrene	0.2	0.25	-	< 0.97	< 0.96	< 1
Isophorone	40	78	-	< 0.97	< 0.96	< 1
Naphthalene	300	0.17	-	< 0.97	< 0.96	< 1
Nitrobenzene	6	0.14	-	< 1.9	< 1.9	< 2.1
N-Nitrosodimethylamine	0.8	0.00011	-	< 1.9	< 1.9	< 2.1
N-Nitroso-di-n-propylamine	10	0.011	-	< 0.97	< 0.96	< 1
N-Nitrosodiphenylamine	10	12	-	< 1.9	< 1.9	< 2.1
Pentachlorophenol	0.3	0.041	-	< 7.7	< 7.7	< 8.4
Phenanthrene	100	NLE	-	< 0.97	< 0.96	< 1
Phenol	2,000	580	-	< 0.97	< 0.96	< 1
Pyrene	200	12	-	< 0.97	< 0.96	< 1

TABLE 4
GROUND WATER SAMPLING RESULTS - COMPARISON TO NJDEP GWQC and USEPA Tapwater RSL
FTMM-08 Boring 10
FORT MONMOUTH, NEW JERSEY

Loc ID	NJ Ground Water Quality Criteria	2017-06 RSL Tap Water (HQ=0.1)	Weston 1995 Background (Main Post)	FTMM08-B10-MW01	296MW07	
Sample ID				FTMM-08-B10-GW-MW-01-10.8	FTMM-08-GW-296MW07-8.7	FTMM-08-GW-296MW107-8.7
Sample Date				8/3/2018	8/3/2018	8/3/2018
Filtered				Total	Total	Total
TIC SVOCs (µg/l)						
Total TIC SVOCs	500	NLE	-	5.5 JN	NA	NA
Extractable/Volatile Petroleum Hydrocarbons (mg/l)						
EPH (C9-C40)	NLE	NLE	-	< 0.095	0.065 J	0.044 J
PCBs (µg/l)						
Aroclor-1016	0.5	0.14	-	< 0.5	< 0.46	< 0.47
Aroclor-1221	0.5	0.0047	-	< 0.5	< 0.46	< 0.47
Aroclor-1232	0.5	0.0047	-	< 0.5	< 0.46	< 0.47
Aroclor-1242	0.5	0.0078	-	< 0.5	< 0.46	< 0.47
Aroclor-1248	0.5	0.0078	-	< 0.5	< 0.46	< 0.47
Aroclor-1254	0.5	0.0078	-	< 0.5	< 0.46	< 0.47
Aroclor-1260	0.5	0.0078	-	< 0.5	< 0.46	< 0.47
Total PCBs	NLE	NLE	-	< 4.5	< 4.1	< 4.2
Inorganics (µg/l)						
Aluminum	200	2,000	121,000	528	327	247
Antimony	6	0.78	20.7	< 14	< 14	< 14
Arsenic	3	0.052	89.3	10.6 J	< 18.7	< 18.7
Barium	6,000	380	699	27.4	9.3 J	7.7 J
Beryllium	1	2.5	2.1	< 2.9	< 2.9	< 2.9
Cadmium	4	0.92	9.5	< 1.4	< 1.4	< 1.4
Calcium	NLE	NLE	45,400	17,600	14,200	14,200
Chromium	70	2,200	191	6	3.1 J	2.4 J
Cobalt	100	0.6	18.3	5.4 J	< 4	< 4
Copper	1,300	80	65.6	4.2 J	3.8 J	< 7.3
Iron	300	1,400	431,000	6,920	5,220	4,970
Lead	5	15	22.7	6.1 J	3.4 J	5.3 J
Magnesium	NLE	NLE	62,700	4,200	3,710	3,600
Manganese	50	43	331	36.3	55.4	55.9
Mercury	2	0.57	0.26	< 0.33	< 0.33	< 0.33
Nickel	100	39	187	8.4 J	< 14	< 14
Potassium	NLE	NLE	137,000	7,410	4,890	4,850
Selenium	40	10	29.6	< 14	< 14	< 14
Silver	40	9.4	ND	< 2.9	< 2.9	< 2.9
Sodium	50,000	NLE	21,500	25,500	16,600	15,900
Thallium	2	0.02	5.5	< 14	< 14	< 14
Vanadium	NLE	8.6	108	3.3 J	< 4	< 4
Zinc	2,000	600	233	42.1	39.8	38.7

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 detection
- 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 concentration 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.

a) DELETE THIS NOTE BEFORE GOING FINAL: Refer to the NJDEP Protocol for Addressing Extractable Petroleum Hydrocarbons (Version 5.0, August 9, 2010) and the NJDEP Health Based and Ecological Screening Criteria for Petroleum Hydrocarbons (Version 4.0, August 9, 2010) to determine the category of tank being investigated and the appropriate cleanup standards or screening levels for that category of tank.

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 Ground Water Quality Criteria

####

NJDEP Interim Specific GWQC values are presented for the NJ GWQS where there is not a Specific Ground Water Quality Criteria. A full list of compounds is available at (http://www.nj.gov/depl/wms/bwqsa/gwqs_interim_criteria_table.htm).

NJDEP Interim Generic GWQC values are presented for the NJ GWQS where there is not a XXXXX or a NJDEP Interim Specific GWQC. Available at (http://www.nj.gov/depl/wms/bwqsa/gwqs_interim_criteria_table.htm).

- Cell Shade values represent a result that is above the USEPA 2017-06 RSL Tap Water (HQ=0.1).

###

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

###

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

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

- Cell Shade values represent a result that is above both the NJ Ground Water Quality Criteria and USEPA 2017-06 RSL Tap Water (HQ=0.1).

###

10) Criteria action level source document and web address.

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

<http://www.state.nj.us/depl/wms/bwqsa/docs/njac79C.pdf>

- The 2017-06 USEPA RSL Tap Water (HQ=0.1) refers to the USEPA's Regional Screening Levels (HQ=0.1)

<https://www.epa.gov/risk/regional-screening-levels-rsls-generic-tables-november-2017>

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

NA

TABLE 5
GROUND WATER SAMPLING SUMMARY OF NJDEP GWQC and USEPA Tapwater RSL
SITE FTMM-08 Boring 10
FORT MONMOUTH, NEW JERSEY

Analyte	Maximum Detected Concentration	Location of Maximum Concentration		Number of Samples	Number of Detections	NJ Ground Water Quality Criteria		2017-06 RSL Tap Water (HQ=0.1)		Weston 1995 Background (Main Post)		
			Sample Date			Action Level	Num of Detects Above Standard-1	Action Level	Num of Detects Above Standard-2	Action Level	Num of Detects Above Standard-3	
Volatile Organic Compounds - No Exceedances												
TIC VOCs - Not Analyzed												
Semivolatile Organic Compounds - No Exceedances												
TIC SVOCs - No Exceedances												
Extractable/Volatile Petroleum Hydrocarbons - No Exceedances												
PCBs - No Exceedances												
Inorganics (µg/l)												
Aluminum	528		FTMM08-B10-MW01	8/3/2018	3	3	200	3	2,000	0	121,000	0
Arsenic	10.6	J	FTMM08-B10-MW01	8/3/2018	3	1	3	1	0.052	1	89.3	0
Cobalt	5.4	J	FTMM08-B10-MW01	8/3/2018	3	1	100	0	0.6	1	18.3	0
Iron	6,920		FTMM08-B10-MW01	8/3/2018	3	3	300	3	1,400	3	431,000	0
Lead	6.1	J	FTMM08-B10-MW01	8/3/2018	3	3	5	2	15	0	22.7	0
Manganese	55.9		296MW07	8/3/2018	3	3	50	2	43	2	331	0
Sodium	25,500		FTMM08-B10-MW01	8/3/2018	3	3	50,000	0	NLE	NLE	21,500	1

1) Summary Statistics presents only results that were above (at least one) standard and were obtained from Summary Statistics Sheet.

TABLE 6
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP Soil Remediation Standards
FTMM-08 Boring 10

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	PAR-49-SB-08	FTMM08-B10-SB-01				FTMM08-B10-SB-02		
Sample ID	Contact SRS	Contact SRS	Contact SRS	Contact SRS	Contact SRS	PAR-49-SS-SB-08-0.5-1	FTMM-08-B10-SB-01 1.5-2	FTMM-08-B10-SB-01 2.5-3	FTMM-08-B10-SB-101 2.5-3	FTMM-08-B10-SB-01 7-7.5	FTMM-08-B10-SB-02 3-3.5	FTMM-08-B10-SB-02 6-6.5
Sample Date						3/30/2016	11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017	
Volatile Organic Compounds (mg/kg)												
1,1,1,2-Tetrachloroethane	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,1,1-Trichloroethane	160,000	NLE	0.3	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,1,2,2-Tetrachloroethane	1	3	0.007	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,1,2-Trichloroethane	2	6	0.02	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,1-Dichloroethane	8	24	0.2	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,1-Dichloroethene	11	150	0.008	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,1-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,2,3-Trichlorobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,2,3-Trichloropropane	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,2,4-Trichlorobenzene	73	820	0.7	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,2,4-Trimethylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	0.011 J	NA	NA	0.003 J
1,2-Dibromo-3-chloropropane	0.08	0.2	0.005	-	NA	NA	NA	NA	< 0.0022 UJ	NA	NA	< 0.0022 UJ
1,2-Dibromoethane	0.008	0.04	0.005	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,2-Dichlorobenzene	5,300	59,000	17	-	NA	NA	NA	NA	0.0024 J	NA	NA	< 0.0009 UJ
1,2-Dichloroethane	0.9	3	0.005	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,2-Dichloropropane	2	5	0.005	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,3,5-Trimethylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	0.0017 J	NA	NA	< 0.0009 UJ
1,3-Dichlorobenzene	5,300	59,000	19	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,3-Dichloropropane	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,4-Dichlorobenzene	5	13	2	-	NA	NA	NA	NA	0.001 J	NA	NA	< 0.0009 UJ
2,2-Dichloropropane	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
2-Chlorotoluene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Acetone	70,000	NLE	19	-	NA	NA	NA	NA	0.24 J	NA	NA	0.16 J
Benzene	2	5	0.005	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Bromobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Bromochloromethane	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Bromodichloromethane	1	3	0.005	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Bromoform	81	280	0.03	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Carbon tetrachloride	2	4	0.005	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Chlorobenzene	510	7,400	0.6	-	NA	NA	NA	NA	0.0033 J	NA	NA	< 0.0009 UJ
Chlorodibromomethane	3	8	0.005	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Chloroethane	220	1,100	NLE	-	NA	NA	NA	NA	< 0.0022 UJ	NA	NA	< 0.0022 UJ
Chloroform	0.6	2	0.4	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Cis-1,2-Dichloroethene	230	560	0.3	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Cis-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Cymene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Dichlorodifluoromethane	490	230,000	39	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Ethyl benzene	7,800	110,000	13	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	0.0008 J
Hexachlorobutadiene	6	25	0.9	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Isopropylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	0.0034 J	NA	NA	0.0057 J
Meta/Para Xylene	NLE	NLE	NLE	-	NA	NA	NA	NA	0.0008 J	NA	NA	< 0.0018 UJ
Methyl bromide	25	59	0.04	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Methyl butyl ketone	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0044 UJ	NA	NA	< 0.0044 UJ
Methyl chloride	4	12	NLE	-	NA	NA	NA	NA	0.0007 J	NA	NA	< 0.0009 UJ
Methyl ethyl ketone	3,100	44,000	0.9	-	NA	NA	NA	NA	0.034 J	NA	NA	0.034 J
Methyl isobutyl ketone	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0044 UJ	NA	NA	< 0.0044 UJ
Methyl Tertbutyl Ether	110	320	0.2	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Methylene chloride	46	230	0.01	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Naphthalene	6	17	25	-	NA	NA	NA	NA	0.0032 J	NA	NA	0.005 J
n-Butylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	0.021 J
Ortho Xylene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
p-Chlorotoluene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Propylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	0.0041 J	NA	NA	0.015 J
sec-Butylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	0.072 J	NA	NA	0.035 J
Styrene	90	260	3	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Tert Butyl Alcohol	1,400	11,000	0.3	-	NA	NA	NA	NA	0.017 J	NA	NA	0.0078 J
tert-Butylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Tetrachloroethene	43	1,500	0.005	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Toluene	6,300	91,000	7	-	NA	NA	NA	NA	0.0035 J	NA	NA	< 0.0009 UJ
Trans-1,2-Dichloroethene	300	720	0.6	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Trans-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Trichloroethene	3	10	0.01	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Trichlorofluoromethane	23,000	340,000	34	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Vinyl chloride	0.7	2	0.005	-	NA	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
TIC VOCs (µg/kg)												
Total TIC VOCs	NLE	NLE	NLE	-	NA	NA	NA	NA	437.1 JN	NA	NA	906.9 JN
Semivolatile Organic Compounds (mg/kg)												
1,2,4-Trichlorobenzene	73	820	0.7	-	NA	NA	NA	NA	< 0.082	NA	NA	< 0.076
1,2-Dichlorobenzene	5,300	59,000	17	-	NA	NA	NA	NA	< 0.082	NA	NA	< 0.076
1,2-Diphenylhydrazine	0.7	2	0.7	-	NA	NA	NA	NA	< 0.082	NA	NA	< 0.076
1,3-Dichlorobenzene	5,300	59,000	19	-	NA	NA	NA	NA	< 0.082	NA	NA	< 0.076
1,4-Dichlorobenzene	5	13	2	-	NA	NA	NA	NA	< 0.082	NA	NA	< 0.076
2,4,5-Trichlorophenol	6,100	68,000	68	-	NA	NA	NA	NA	< 0.082	NA	NA	< 0.076
2,4,6-Trichlorophenol	19	74	0.2	-	NA	NA	NA	NA	< 0.082	NA	NA	< 0.076
2,4-Dichlorophenol	180	2,100	0.2	-	NA	NA	NA	NA	< 0.082	NA	NA	< 0.076
2,4-Dimethylphenol	1,200	14,000	1	-	NA	NA	NA	NA	0.14 J	NA	NA	< 0.15
2,4-Dinitrophenol	120	1,400	0.3	-	NA	NA	NA	NA	< 0.25	NA	NA	< 0.23
2,4-Dinitrotoluene	0.7	3	NLE	-	NA	NA	NA	NA	< 0.082	NA	NA	< 0.076

TABLE 6
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP Soil Remediation Standards
FTMM-08 Boring 10

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	PAR-49-SB-08	FTMM08-B10-SB-01				FTMM08-B10-SB-02	
Sample ID	Sample Date				PAR-49-SS-SB-08-0.5-1	FTMM-08-B10-SB-01 1.5-2	FTMM-08-B10-SB-01 2.5-3	FTMM-08-B10-SB-01 2.5-3	FTMM-08-B10-SB-01 7-7.5	FTMM-08-B10-SB-02 3-3.5	FTMM-08-B10-SB-02 6-6.5
					3/30/2016	11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017
2,6-Dinitrotoluene	0.7	3	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
2-Chloronaphthalene	NLE	NLE	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
2-Chlorophenol	310	2,200	0.8	-	NA	NA	NA	< 0.25	NA	NA	< 0.23
2-Methylnaphthalene	230	2,400	8	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
2-Methylphenol	310	3,400	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
2-Nitroaniline	39	23,000	NLE	-	NA	NA	NA	< 0.25	NA	NA	< 0.23
2-Nitrophenol	NLE	NLE	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
3,3'-Dichlorobenzidine	1	4	0.2	-	NA	NA	NA	< 0.25	NA	NA	< 0.23
3-Nitroaniline	NLE	NLE	NLE	-	NA	NA	NA	< 0.25	NA	NA	< 0.23
4,6-Dinitro-2-methylphenol	6	68	0.3	-	NA	NA	NA	< 0.25	NA	NA	< 0.23
4-Bromophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
4-Chloro-3-methylphenol	NLE	NLE	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
4-Chloroaniline	NLE	NLE	NLE	-	NA	NA	NA	< 0.25	NA	NA	< 0.23
4-Chlorophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
4-Nitroaniline	NLE	NLE	NLE	-	NA	NA	NA	< 0.25	NA	NA	< 0.23
4-Nitrophenol	NLE	NLE	NLE	-	NA	NA	NA	< 0.16	NA	NA	< 0.15
Acenaphthene	3,400	37,000	110	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Acenaphthylene	NLE	300,000	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Anthracene	17,000	30,000	2,400	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Benzo(a)anthracene	5	17	0.8	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Benzo(a)pyrene	0.5	2	0.2	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Benzo(b)fluoranthene	5	17	2	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Benzo(ghi)perylene	380,000	30,000	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Benzo(k)fluoranthene	45	170	25	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Benzoic Acid	NLE	NLE	NLE	-	NA	NA	NA	0.24 J	NA	NA	< 0.45
Benzyl alcohol	NLE	NLE	NLE	-	NA	NA	NA	< 0.25	NA	NA	< 0.23
Bis(2-Chloroethoxy)methane	NLE	NLE	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Bis(2-Chloroethyl)ether	0.4	2	0.2	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Bis(2-Chloroisopropyl)ether	23	67	5	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Bis(2-Ethylhexyl)phthalate	35	140	1,200	-	NA	NA	NA	< 0.25	NA	NA	< 0.23
Butyl benzyl phthalate	1,200	14,000	230	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Carbazole	24	96	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Chrysene	450	1,700	80	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Cresol	NLE	NLE	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Dibenz(a,h)anthracene	0.5	2	0.8	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Diethyl phthalate	49,000	550,000	88	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Dimethyl phthalate	NLE	NLE	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Di-n-butylphthalate	6,100	68,000	760	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Di-n-octylphthalate	2,400	27,000	3,300	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Fluoranthene	2,300	24,000	1,300	-	NA	NA	NA	0.22	NA	NA	0.033 J
Fluorene	2,300	24,000	170	-	NA	NA	NA	0.15	NA	NA	< 0.076
Hexachlorobenzene	0.3	1	0.2	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Hexachlorobutadiene	6	25	0.9	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Hexachlorocyclopentadiene	45	110	320	-	NA	NA	NA	< 0.25	NA	NA	< 0.23
Hexachloroethane	12	48	0.2	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Indeno(1,2,3-cd)pyrene	5	17	7	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Isophorone	510	2,000	0.2	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Naphthalene	6	17	25	-	NA	NA	NA	0.017 J	NA	NA	< 0.076
Nitrobenzene	5	14	0.2	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
N-Nitrosodimethylamine	0.7	0.7	0.7	-	NA	NA	NA	< 0.16	NA	NA	< 0.15
N-Nitroso-di-n-propylamine	0.2	0.3	0.2	-	NA	NA	NA	< 0.25	NA	NA	< 0.23
N-Nitrosodiphenylamine	99	390	0.4	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Pentachlorophenol	0.9	3	0.3	-	NA	NA	NA	< 0.25	NA	NA	< 0.23
Phenanthrene	NLE	300,000	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Phenol	18,000	210,000	8	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
Pyrene	1,700	18,000	840	-	NA	NA	NA	0.16	NA	NA	0.072 J
TIC SVOCs (mg/kg)											
Total TIC SVOCs	NLE	NLE	NLE	-	NA	NA	NA	30.45 JN	NA	NA	14.22 JN
Extractable/Volatile Petroleum Hydrocarbons (mg/kg)											
C10-C12 Aromatics	NLE	NLE	NLE	-	NA	< 1.2 UJ	< 1.2 UJ	< 1.2	< 1.3 UJ	< 1.1 UJ	< 1.2
C12-C16 Aliphatics	NLE	NLE	NLE	-	NA	15.3 J	102 J	49.6 J	< 1.3 UJ	< 1.1 UJ	21.1
C12-C16 Aromatics	NLE	NLE	NLE	-	NA	0.57 J	0.73 J	1.1 J	< 1.3 UJ	< 1.1 UJ	1.6
C16-C21 Aliphatics	NLE	NLE	NLE	-	NA	265	2,220	1,490	24.1 J	< 1.1 UJ	910
C16-C21 Aromatics	NLE	NLE	NLE	-	NA	78.9 J	119 J	377 J	7.5 J	0.34 J	280
C21-C36 Aromatics	NLE	NLE	NLE	-	NA	553	372 J	3,210 J	40.6 J	1.2 J	3,070
C21-C40 Aliphatics	NLE	NLE	NLE	-	NA	1,700	8,350	7,200	87.8 J	2.5 J	7,290
C9-C12 Aliphatics	NLE	NLE	NLE	-	NA	< 1.2 UJ	11.1 J	2.3 J	< 1.3 UJ	< 1.1 UJ	17.9
Total Aliphatics	NLE	NLE	NLE	-	NA	1,980	10,700	8,730	112 J	2.7 J	8,240
Total Aromatics	NLE	NLE	NLE	-	NA	633	492 J	3,590 J	48.3 J	1.7 J	3,350
Total EPH	SS	SS	SS	-	NA	2,610	11,200	12,300	161 J	4.4 J	11,600
PCBs (mg/kg)											
Aroclor-1016	NLE	NLE	NLE	-	< 0.035	< 0.031	< 0.029	< 0.03	< 0.032	< 0.027	< 0.028
Aroclor-1221	NLE	NLE	NLE	-	< 0.072	< 0.031	< 0.029	< 0.03	< 0.032	< 0.027	< 0.028
Aroclor-1232	NLE	NLE	NLE	-	< 0.035	< 0.031	< 0.029	< 0.03	< 0.032	< 0.027	< 0.028
Aroclor-1242	NLE	NLE	NLE	-	< 0.035	< 0.031	< 0.029	< 0.03	< 0.032	< 0.027	< 0.028
Aroclor-1248	NLE	NLE	NLE	-	< 0.035	< 0.031	< 0.029	< 0.03	< 0.032	< 0.027	0.04
Aroclor-1254	NLE	NLE	NLE	-	< 0.035	0.062	< 0.029	< 0.03	< 0.032	< 0.027	0.048 JN
Aroclor-1260	NLE	NLE	NLE	-	0.03 J	< 0.031	< 0.029	< 0.03	< 0.032	< 0.027	0.039 J

TABLE 6
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FTMM-08 Boring 10

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Sample ID					PAR-49-SS-SB-08-0.5-1	FTMM-08-B10-SB-01 1.5-2	FTMM-08-B10-SB-01 2.5-3	FTMM-08-B10-SB-01 2.5-3	FTMM-08-B10-SB-01 7-7.5	FTMM-08-B10-SB-02 3-3.5	FTMM-08-B10-SB-02 6-6.5
Sample Date					3/30/2016	11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017
Aroclor-1268	NLE	NLE	NLE	-	< 0.035	< 0.031	< 0.029	< 0.03	< 0.032	< 0.027	< 0.028
Total PCBs	0.2	NLE	NLE	-	NA	0.061	< 0.029	< 0.03	< 0.032	< 0.027	0.13
Inorganics (mg/kg)											
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	6.070	NA	NA	4.920
Antimony	31	450	6	ND	NA	NA	NA	< 0.79	NA	NA	< 0.7
Arsenic	19	19	19	22.9	NA	NA	NA	6.4	NA	NA	6.9
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	16.7	NA	NA	15.9
Beryllium	16	140	0.7	2	NA	NA	NA	1.1	NA	NA	0.9
Cadmium	78	78	2	ND	NA	NA	NA	0.26 J	NA	NA	0.98
Calcium	NLE	NLE	NLE	921	NA	NA	NA	485	NA	NA	216
Chromium	NLE	NLE	NLE	269	NA	NA	NA	82.4	NA	NA	70.3
Cobalt	1,600	590	90	2.5	NA	NA	NA	2.4 J	NA	NA	1.8 J
Copper	3,100	45,000	11,000	8	NA	NA	NA	5	NA	NA	2.9
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	29,500	NA	NA	28,600
Lead	400	800	90	19.5	NA	NA	NA	11.3	NA	NA	7.1
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	3,560	NA	NA	2,320
Manganese	11,000	5,900	65	90.7	NA	NA	NA	8.6	NA	NA	18.1
Mercury	23	65	0.1	ND	NA	NA	NA	< 0.079	NA	NA	< 0.07
Molybdenum	NLE	NLE	NLE	ND	NA	NA	NA	< 0.79	NA	NA	< 0.7
Nickel	1,600	23,000	48	8.4	NA	NA	NA	6.8	NA	NA	5.1
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	10,100	NA	NA	6,910
Selenium					NA	NA	NA	< 2	NA	NA	< 1.8
Silver	390	5,700	1	1.1	NA	NA	NA	< 0.79	NA	NA	< 0.7
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	936	NA	NA	53.3 J
Strontium	NLE	NLE	NLE	ND	NA	NA	NA	6.5	NA	NA	3.2
Thallium	NLE	NLE	3	ND	NA	NA	NA	< 0.41	NA	NA	< 0.36
Tin	NLE	NLE	NLE	ND	NA	NA	NA	< 2	NA	NA	1.2 J
Titanium	NLE	NLE	NLE	ND	NA	NA	NA	25.2	NA	NA	37
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	22.8	NA	NA	31
Zinc	23,000	110,000	930	81.4	NA	NA	NA	70.4	NA	NA	191

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Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM08-B10-SB-02	FTMM08-B10-SB-04				FTMM08-B10-SB-05	
Sample ID	Contact SRS	Contact SRS	Contact SRS	Contact SRS	FTMM-08-B10-SB-02 10-10.5	FTMM-08-B10-SB-04 1-1.5	FTMM-08-B10-SB-04 2.5-3	FTMM-08-B10-SB-04 6.5-7	FTMM-08-B10-SB-05-2.5-3.0	FTMM-08-B10-SB-105-2.5-3.0	
Sample Date					11/20/2017	11/20/2017	11/20/2017	11/20/2017	5/16/2018	5/16/2018	
Volatile Organic Compounds (mg/kg)											
1,1,1,2-Tetrachloroethane	NLE	NLE	NLE	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
1,1,1-Trichloroethane	160,000	NLE	0.3	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
1,1,2,2-Tetrachloroethane	1	3	0.007	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
1,1,2-Trichloroethane	2	6	0.02	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
1,1-Dichloroethane	8	24	0.2	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
1,1-Dichloroethene	11	150	0.008	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
1,1-Dichloropropene	NLE	NLE	NLE	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
1,2,3-Trichlorobenzene	NLE	NLE	NLE	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
1,2,3-Trichloropropane	NLE	NLE	NLE	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
1,2,4-Trichlorobenzene	73	820	0.7	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
1,2,4-Trimethylbenzene	NLE	NLE	NLE	-	NA	7.1 J	0.053 J	NA	NA	NA	
1,2-Dibromo-3-chloropropane	0.08	0.2	0.005	-	NA	NA	< 0.0023 UJ	< 0.0018 UJ	NA	NA	
1,2-Dibromoethane	0.008	0.04	0.005	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
1,2-Dichlorobenzene	5,300	59,000	17	-	NA	NA	0.057 J	0.0006 J	NA	NA	
1,2-Dichloroethane	0.9	3	0.005	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
1,2-Dichloropropane	2	5	0.005	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
1,3,5-Trimethylbenzene	NLE	NLE	NLE	-	NA	1.1 J	< 0.0007 UJ	< 0.0007 UJ	NA	NA	
1,3-Dichlorobenzene	5,300	59,000	19	-	NA	NA	0.0023 J	< 0.0007 UJ	NA	NA	
1,3-Dichloropropane	NLE	NLE	NLE	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
1,4-Dichlorobenzene	5	13	2	-	NA	NA	0.0093 J	< 0.0007 UJ	NA	NA	
2,2-Dichloropropane	NLE	NLE	NLE	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
2-Chlorotoluene	NLE	NLE	NLE	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Acetone	70,000	NLE	19	-	NA	NA	< 0.0046 UJ	0.077 J	NA	NA	
Benzene	2	5	0.005	-	NA	NA	< 0.0009 UJ	0.0004 J	NA	NA	
Bromobenzene	NLE	NLE	NLE	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Bromochloromethane	NLE	NLE	NLE	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Bromodichloromethane	1	3	0.005	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Bromoform	81	280	0.03	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Carbon tetrachloride	2	4	0.005	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Chlorobenzene	510	7,400	0.6	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Chlorodibromomethane	3	8	0.005	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Chloroethane	220	1,100	NLE	-	NA	NA	< 0.0023 UJ	< 0.0018 UJ	NA	NA	
Chloroform	0.6	2	0.4	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Cis-1,2-Dichloroethene	230	560	0.3	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Cis-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Cymene	NLE	NLE	NLE	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Dichlorodifluoromethane	490	230,000	39	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Ethyl benzene	7,800	110,000	13	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Hexachlorobutadiene	6	25	0.9	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Isopropylbenzene	NLE	NLE	NLE	-	NA	NA	0.5 J	0.0048 J	NA	NA	
Meta/Para Xylene	NLE	NLE	NLE	-	NA	NA	0.015 J	< 0.0014 UJ	NA	NA	
Methyl bromide	25	59	0.04	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Methyl butyl ketone	NLE	NLE	NLE	-	NA	NA	< 0.0046 UJ	< 0.0036 UJ	NA	NA	
Methyl chloride	4	12	NLE	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Methyl ethyl ketone	3,100	44,000	0.9	-	NA	NA	0.12 J	0.011 J	NA	NA	
Methyl isobutyl ketone	NLE	NLE	NLE	-	NA	NA	< 0.0046 UJ	< 0.0036 UJ	NA	NA	
Methyl Tertbutyl Ether	110	320	0.2	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Methylene chloride	46	230	0.01	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Naphthalene	6	17	25	-	NA	NA	0.007 J	0.0005 J	NA	NA	
n-Butylbenzene	NLE	NLE	NLE	-	NA	NA	NA	0.004 J	NA	NA	
Ortho Xylene	NLE	NLE	NLE	-	NA	NA	0.0072 J	< 0.0007 UJ	NA	NA	
p-Chlorotoluene	NLE	NLE	NLE	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Propylbenzene	NLE	NLE	NLE	-	NA	NA	1.2 J	0.01 J	NA	NA	
sec-Butylbenzene	NLE	NLE	NLE	-	NA	NA	0.91 J	0.011 J	NA	NA	
Styrene	90	260	3	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Tert Butyl Alcohol	1,400	11,000	0.3	-	NA	NA	0.013 J	< 0.0036 UJ	NA	NA	
tert-Butylbenzene	NLE	NLE	NLE	-	NA	NA	< 0.0009 UJ	0.0006 J	NA	NA	
Tetrachloroethene	43	1,500	0.005	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Toluene	6,300	91,000	7	-	NA	NA	0.0006 J	< 0.0007 UJ	NA	NA	
Trans-1,2-Dichloroethene	300	720	0.6	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Trans-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Trichloroethene	3	10	0.01	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Trichlorofluoromethane	23,000	340,000	34	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
Vinyl chloride	0.7	2	0.005	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ	NA	NA	
TIC VOCs (µg/kg)											
Total TIC VOCs	NLE	NLE	NLE	-	NA	NA	766.9 JN	254.2 JN	NA	NA	
Semivolatile Organic Compounds (mg/kg)											
1,2,4-Trichlorobenzene	73	820	0.7	-	NA	NA	< 0.076	< 0.11 UJ	NA	NA	
1,2-Dichlorobenzene	5,300	59,000	17	-	NA	NA	0.053 J	< 0.11 UJ	NA	NA	
1,2-Diphenylhydrazine	0.7	2	0.7	-	NA	NA	< 0.076	< 0.11 UJ	NA	NA	
1,3-Dichlorobenzene	5,300	59,000	19	-	NA	NA	< 0.076	< 0.11 UJ	NA	NA	
1,4-Dichlorobenzene	5	13	2	-	NA	NA	< 0.076	< 0.11 UJ	NA	NA	
2,4,5-Trichlorophenol	6,100	68,000	68	-	NA	NA	< 0.076	< 0.11	NA	NA	
2,4,6-Trichlorophenol	19	74	0.2	-	NA	NA	< 0.076	< 0.11	NA	NA	
2,4-Dichlorophenol	180	2,100	0.2	-	NA	NA	< 0.076	< 0.11	NA	NA	
2,4-Dimethylphenol	1,200	14,000	1	-	NA	NA	< 0.15	< 0.22	NA	NA	
2,4-Dinitrophenol	120	1,400	0.3	-	NA	NA	< 0.23	< 0.33	NA	NA	
2,4-Dinitrotoluene	0.7	3	NLE	-	NA	NA	< 0.076	< 0.11 UJ	NA	NA	

TABLE 6
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP Soil Remediation Standards
FTMM-08 Boring 10

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM08-B10-SB-02	FTMM08-B10-SB-04				FTMM08-B10-SB-05	
Sample ID					FTMM-08-B10-SB-02 10-10.5	FTMM-08-B10-SB-04 1-1.5	FTMM-08-B10-SB-04 2.5-3	FTMM-08-B10-SB-04 6.5-7		FTMM-08-B10-SB-05 2.5-3.0	FTMM-08-B10-SB-105-2.5-3.0
Sample Date					11/20/2017	11/20/2017	11/20/2017	11/20/2017		5/16/2018	5/16/2018
2,6-Dinitrotoluene	0.7	3	NLE	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
2-Chloronaphthalene	NLE	NLE	NLE	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
2-Chlorophenol	310	2,200	0.8	-	NA	NA	< 0.23	NA		NA	NA
2-Methylnaphthalene	230	2,400	8	-	NA	NA	1	< 0.11 UJ		NA	NA
2-Methylphenol	310	3,400	NLE	-	NA	NA	< 0.076	< 0.11		NA	NA
2-Nitroaniline	39	23,000	NLE	-	NA	NA	< 0.23	< 0.33 UJ		NA	NA
2-Nitrophenol	NLE	NLE	NLE	-	NA	NA	< 0.076	< 0.11		NA	NA
3,3'-Dichlorobenzidine	1	4	0.2	-	NA	NA	< 0.23	< 0.33 UJ		NA	NA
3-Nitroaniline	NLE	NLE	NLE	-	NA	NA	< 0.23	< 0.33 UJ		NA	NA
4,6-Dinitro-2-methylphenol	6	68	0.3	-	NA	NA	< 0.23	< 0.33		NA	NA
4-Bromophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
4-Chloro-3-methylphenol	NLE	NLE	NLE	-	NA	NA	< 0.076	< 0.11		NA	NA
4-Chloroaniline	NLE	NLE	NLE	-	NA	NA	< 0.23	< 0.33 UJ		NA	NA
4-Chlorophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
4-Nitroaniline	NLE	NLE	NLE	-	NA	NA	< 0.23	< 0.33 UJ		NA	NA
4-Nitrophenol	NLE	NLE	NLE	-	NA	NA	< 0.15	< 0.22		NA	NA
Acenaphthene	3,400	37,000	110	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Acenaphthylene	NLE	300,000	NLE	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Anthracene	17,000	30,000	2,400	-	NA	NA	0.057 J	< 0.11 UJ		NA	NA
Benzo(a)anthracene	5	17	0.8	-	NA	NA	0.068 J	< 0.11 UJ		NA	NA
Benzo(a)pyrene	0.5	2	0.2	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Benzo(b)fluoranthene	5	17	2	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Benzo(ghi)perylene	380,000	30,000	NLE	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Benzo(k)fluoranthene	45	170	25	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Benzoic Acid	NLE	NLE	NLE	-	NA	NA	< 0.45	< 0.65		NA	NA
Benzyl alcohol	NLE	NLE	NLE	-	NA	NA	< 0.23	< 0.33 UJ		NA	NA
Bis(2-Chloroethoxy)methane	NLE	NLE	NLE	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Bis(2-Chloroethyl)ether	0.4	2	0.2	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Bis(2-Chloroisopropyl)ether	23	67	5	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Bis(2-Ethylhexyl)phthalate	35	140	1,200	-	NA	NA	< 0.23	< 0.33 UJ		NA	NA
Butyl benzyl phthalate	1,200	14,000	230	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Carbazole	24	96	NLE	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Chrysene	450	1,700	80	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Cresol	NLE	NLE	NLE	-	NA	NA	< 0.076	< 0.11		NA	NA
Dibenz(a,h)anthracene	0.5	2	0.8	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	0.051 J	< 0.11 UJ		NA	NA
Diethyl phthalate	49,000	550,000	88	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Dimethyl phthalate	NLE	NLE	NLE	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Di-n-butylphthalate	6,100	68,000	760	-	NA	NA	0.17 J	< 0.11 UJ		NA	NA
Di-n-octylphthalate	2,400	27,000	3,300	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Fluoranthene	2,300	24,000	1,300	-	NA	NA	0.21	< 0.11 UJ		NA	NA
Fluorene	2,300	24,000	170	-	NA	NA	0.13	< 0.11 UJ		NA	NA
Hexachlorobenzene	0.3	1	0.2	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Hexachlorobutadiene	6	25	0.9	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Hexachlorocyclopentadiene	45	110	320	-	NA	NA	< 0.23	< 0.33 UJ		NA	NA
Hexachloroethane	12	48	0.2	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Indeno(1,2,3-cd)pyrene	5	17	7	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Isophorone	510	2,000	0.2	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Naphthalene	6	17	25	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Nitrobenzene	5	14	0.2	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
N-Nitrosodimethylamine	0.7	0.7	0.7	-	NA	NA	< 0.15	< 0.22 UJ		NA	NA
N-Nitroso-di-n-propylamine	0.2	0.3	0.2	-	NA	NA	< 0.23	< 0.33 UJ		NA	NA
N-Nitrosodiphenylamine	99	390	0.4	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Pentachlorophenol	0.9	3	0.3	-	NA	NA	< 0.23	< 0.33		NA	NA
Phenanthrene	NLE	300,000	NLE	-	NA	NA	0.51	< 0.11 UJ		NA	NA
Phenol	18,000	210,000	8	-	NA	NA	< 0.076	< 0.11		NA	NA
Pyrene	1,700	18,000	840	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
TIC SVOCs (mg/kg)											
Total TIC SVOCs	NLE	NLE	NLE	-	NA	NA	27.95 JN	3.55 JN		NA	NA
Extractable/Volatile Petroleum Hydrocarbons (mg/kg)											
C10-C12 Aromatics	NLE	NLE	NLE	-	< 1.1 UJ	NA	2.2 J	< 1.3 UJ		< 1.2	< 1.2
C12-C16 Aliphatics	NLE	NLE	NLE	-	< 1.1 UJ	NA	11.4 J	< 1.2 UJ		< 1.2 UJ	< 1.2 UJ
C12-C16 Aromatics	NLE	NLE	NLE	-	< 1.1 UJ	NA	6.8 J	1.5 J		< 1.2	< 1.2
C16-C21 Aliphatics	NLE	NLE	NLE	-	< 1.1 UJ	NA	1,320 J	164 J		< 1.2 UJ	< 1.2 UJ
C16-C21 Aromatics	NLE	NLE	NLE	-	0.28 J	NA	406 J	33.5 J		0.65 J	0.47 J
C21-C36 Aromatics	NLE	NLE	NLE	-	1.1 J	NA	1,420 J	109 J		0.58 J	0.48 J
C21-C40 Aliphatics	NLE	NLE	NLE	-	3.9 J	NA	7,010 J	536 J		< 1.2 UJ	< 1.2 UJ
C9-C12 Aliphatics	NLE	NLE	NLE	-	< 1.1 UJ	NA	4.7 J	0.25 J		< 1.2 UJ	< 1.2 UJ
Total Aliphatics	NLE	NLE	NLE	-	4.2 J	NA	8,450 J	711 J		< 4.6 UJ	< 4.8 UJ
Total Aromatics	NLE	NLE	NLE	-	1.4 J	NA	1,840 J	145 J		1.6 J	1.3 J
Total EPH	SS	SS	SS	-	5.6 J	NA	10,300 J	855 J		< 9.3	< 9.7
PCBs (mg/kg)											
Aroclor-1016	NLE	NLE	NLE	-	< 0.03	< 0.028	< 0.03	< 0.032		< 0.029	< 0.03
Aroclor-1221	NLE	NLE	NLE	-	< 0.03	< 0.028	< 0.03	< 0.032		< 0.029	< 0.03
Aroclor-1232	NLE	NLE	NLE	-	< 0.03	< 0.028	< 0.03	< 0.032		< 0.029	< 0.03
Aroclor-1242	NLE	NLE	NLE	-	< 0.03	< 0.028	< 0.03	< 0.032		< 0.029	< 0.03
Aroclor-1248	NLE	NLE	NLE	-	< 0.03	< 0.028	< 0.03	< 0.032		< 0.029	< 0.03
Aroclor-1254	NLE	NLE	NLE	-	< 0.03	0.23 J	0.075	0.023 J		< 0.029	< 0.03
Aroclor-1260	NLE	NLE	NLE	-	< 0.03	0.22 J	0.16 J	< 0.032		< 0.029	< 0.03

TABLE 6
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FTMM-08 Boring 10

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM08-B10-SB-02		FTMM08-B10-SB-04				FTMM08-B10-SB-05	
Sample ID					FTMM-08-B10-SB-02 10-10.5		FTMM-08-B10-SB-04 1-1.5		FTMM-08-B10-SB-04 2.5-3		FTMM-08-B10-SB-05 2.5-3.0	
Sample Date					11/20/2017		11/20/2017		11/20/2017		5/16/2018	
Aroclor-1268	NLE	NLE	NLE	-	< 0.03		< 0.028		< 0.03		< 0.029	
Total PCBs	0.2	NLE	NLE	-	< 0.03		0.45		0.023 J		< 0.26	
Inorganics (mg/kg)												
Aluminum	78,000	NLE	6,000	15,200	NA	NA	6,600		8,230		NA	NA
Antimony	31	450	6	ND	NA	NA	< 0.76		< 0.85		NA	NA
Arsenic	19	19	19	22.9	NA	NA	7.8		16.6		NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	16		20.5		NA	NA
Beryllium	16	140	0.7	2	NA	NA	1.2		1.4		NA	NA
Cadmium	78	78	2	ND	NA	NA	< 0.39		< 0.44		NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	513		717		NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	97.3		107		NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	1.9 J		3.7		NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	2.5 J		1.9 J		NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	36,900		39,000		NA	NA
Lead	400	800	90	19.5	NA	NA	9.2		4.8		NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	3,310		4,400		NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	12.7		12.3		NA	NA
Mercury	23	65	0.1	ND	NA	NA	< 0.076		< 0.085		NA	NA
Molybdenum	NLE	NLE	NLE	ND	NA	NA	< 0.76		0.57 J		NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	6.3		8.4		NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	9,920		12,000		NA	NA
Selenium	390	5,700	11	1.9	NA	NA	1.1 J		1.1 J		NA	NA
Silver	390	5,700	1	1.1	NA	NA	< 0.76		< 0.85		NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	131		137		NA	NA
Strontium	NLE	NLE	NLE	ND	NA	NA	5.7		8		NA	NA
Thallium	NLE	NLE	3	ND	NA	NA	< 0.39		< 0.44		NA	NA
Tin	NLE	NLE	NLE	ND	NA	NA	< 1.9		< 2.1		NA	NA
Titanium	NLE	NLE	NLE	ND	NA	NA	41.7		64.4		NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	36.8		41.9		NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	45.8		62		NA	NA

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FTMM-08 Boring 10

Loc ID	NJ Residential Direct Contact SRS	NJ Non- Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM08-B10-SB-05		FTMM08-B10-SB-06			FTMM08-B10-SB-07	
Sample ID					FTMM-08-B10-SB-05-5.5-6.0	FTMM-08-B10-SB-05-9.0-9.5	FTMM-08-B10-SB-06-2.5-3.0	FTMM-08-B10-SB-06-6.0-6.5	FTMM-08-B10-SB-06-9.0-9.5	FTMM-08-B10-SB-07-2.5-3.0	
Sample Date					5/16/2018	5/16/2018	5/17/2018	5/17/2018	5/17/2018	5/16/2018	
Volatile Organic Compounds (mg/kg)											
1,1,1,2-Tetrachloroethane	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
1,1,1-Trichloroethane	160,000	NLE	0.3	-	NA	NA	NA	NA	NA	NA	
1,1,2,2-Tetrachloroethane	1	3	0.007	-	NA	NA	NA	NA	NA	NA	
1,1,2-Trichloroethane	2	6	0.02	-	NA	NA	NA	NA	NA	NA	
1,1-Dichloroethane	8	24	0.2	-	NA	NA	NA	NA	NA	NA	
1,1-Dichloroethene	11	150	0.008	-	NA	NA	NA	NA	NA	NA	
1,1-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
1,2,3-Trichlorobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
1,2,3-Trichloropropane	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
1,2,4-Trichlorobenzene	73	820	0.7	-	NA	NA	NA	NA	NA	NA	
1,2,4-Trimethylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
1,2-Dibromo-3-chloropropane	0.08	0.2	0.005	-	NA	NA	NA	NA	NA	NA	
1,2-Dibromoethane	0.008	0.04	0.005	-	NA	NA	NA	NA	NA	NA	
1,2-Dichlorobenzene	5,300	59,000	17	-	NA	NA	NA	NA	NA	NA	
1,2-Dichloroethane	0.9	3	0.005	-	NA	NA	NA	NA	NA	NA	
1,2-Dichloropropane	2	5	0.005	-	NA	NA	NA	NA	NA	NA	
1,3,5-Trimethylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
1,3-Dichlorobenzene	5,300	59,000	19	-	NA	NA	NA	NA	NA	NA	
1,3-Dichloropropane	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
1,4-Dichlorobenzene	5	13	2	-	NA	NA	NA	NA	NA	NA	
2,2-Dichloropropane	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
2-Chlorotoluene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
Acetone	70,000	NLE	19	-	NA	NA	NA	NA	NA	NA	
Benzene	2	5	0.005	-	NA	NA	NA	NA	NA	NA	
Bromobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
Bromochloromethane	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
Bromodichloromethane	1	3	0.005	-	NA	NA	NA	NA	NA	NA	
Bromoform	81	280	0.03	-	NA	NA	NA	NA	NA	NA	
Carbon tetrachloride	2	4	0.005	-	NA	NA	NA	NA	NA	NA	
Chlorobenzene	510	7,400	0.6	-	NA	NA	NA	NA	NA	NA	
Chlorodibromomethane	3	8	0.005	-	NA	NA	NA	NA	NA	NA	
Chloroethane	220	1,100	NLE	-	NA	NA	NA	NA	NA	NA	
Chloroform	0.6	2	0.4	-	NA	NA	NA	NA	NA	NA	
Cis-1,2-Dichloroethene	230	560	0.3	-	NA	NA	NA	NA	NA	NA	
Cis-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
Cymene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
Dichlorodifluoromethane	490	230,000	39	-	NA	NA	NA	NA	NA	NA	
Ethyl benzene	7,800	110,000	13	-	NA	NA	NA	NA	NA	NA	
Hexachlorobutadiene	6	25	0.9	-	NA	NA	NA	NA	NA	NA	
Isopropylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
Meta/Para Xylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
Methyl bromide	25	59	0.04	-	NA	NA	NA	NA	NA	NA	
Methyl butyl ketone	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
Methyl chloride	4	12	NLE	-	NA	NA	NA	NA	NA	NA	
Methyl ethyl ketone	3,100	44,000	0.9	-	NA	NA	NA	NA	NA	NA	
Methyl isobutyl ketone	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
Methyl Tertbutyl Ether	110	320	0.2	-	NA	NA	NA	NA	NA	NA	
Methylene chloride	46	230	0.01	-	NA	NA	NA	NA	NA	NA	
Naphthalene	6	17	25	-	NA	NA	NA	NA	NA	NA	
n-Butylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
Ortho Xylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
p-Chlorotoluene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
Propylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
sec-Butylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
Styrene	90	260	3	-	NA	NA	NA	NA	NA	NA	
Tert Butyl Alcohol	1,400	11,000	0.3	-	NA	NA	NA	NA	NA	NA	
tert-Butylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
Tetrachloroethene	43	1,500	0.005	-	NA	NA	NA	NA	NA	NA	
Toluene	6,300	91,000	7	-	NA	NA	NA	NA	NA	NA	
Trans-1,2-Dichloroethene	300	720	0.6	-	NA	NA	NA	NA	NA	NA	
Trans-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
Trichloroethene	3	10	0.01	-	NA	NA	NA	NA	NA	NA	
Trichlorofluoromethane	23,000	340,000	34	-	NA	NA	NA	NA	NA	NA	
Vinyl chloride	0.7	2	0.005	-	NA	NA	NA	NA	NA	NA	
TIC VOCs (µg/kg)											
Total TIC VOCs	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	
Semivolatile Organic Compounds (mg/kg)											
1,2,4-Trichlorobenzene	73	820	0.7	-	NA	NA	NA	NA	NA	NA	
1,2-Dichlorobenzene	5,300	59,000	17	-	NA	NA	NA	NA	NA	NA	
1,2-Diphenylhydrazine	0.7	2	0.7	-	NA	NA	NA	NA	NA	NA	
1,3-Dichlorobenzene	5,300	59,000	19	-	NA	NA	NA	NA	NA	NA	
1,4-Dichlorobenzene	5	13	2	-	NA	NA	NA	NA	NA	NA	
2,4,5-Trichlorophenol	6,100	68,000	68	-	NA	NA	NA	NA	NA	NA	
2,4,6-Trichlorophenol	19	74	0.2	-	NA	NA	NA	NA	NA	NA	
2,4-Dichlorophenol	180	2,100	0.2	-	NA	NA	NA	NA	NA	NA	
2,4-Dimethylphenol	1,200	14,000	1	-	NA	NA	NA	NA	NA	NA	
2,4-Dinitrophenol	120	1,400	0.3	-	NA	NA	NA	NA	NA	NA	
2,4-Dinitrotoluene	0.7	3	NLE	-	NA	NA	NA	NA	NA	NA	

TABLE 6
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP Soil Remediation Standards
FTMM-08 Boring 10

Loc ID	NJ Residential Direct	NJ Non-Residential Direct	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM08-B10-SB-05		FTMM08-B10-SB-06				FTMM08-B10-SB-07
	Contact SRS	Contact SRS			FTMM-08-B10-SB-05-5.5-6.0	FTMM-08-B10-SB-05-9.0-9.5	FTMM-08-B10-SB-06-2.5-3.0	FTMM-08-B10-SB-06-6.0-6.5	FTMM-08-B10-SB-06-9.0-9.5	FTMM-08-B10-SB-07-2.5-3.0	
Sample ID					5/16/2018	5/16/2018	5/17/2018	5/17/2018	5/17/2018	5/16/2018	
Sample Date											
2,6-Dinitrotoluene	0.7	3	NLE	-	NA	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
2-Chlorophenol	310	2,200	0.8	-	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	230	2,400	8	-	NA	NA	NA	NA	NA	NA	NA
2-Methylphenol	310	3,400	NLE	-	NA	NA	NA	NA	NA	NA	NA
2-Nitroaniline	39	23,000	NLE	-	NA	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	1	4	0.2	-	NA	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	6	68	0.3	-	NA	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Acenaphthene	3,400	37,000	110	-	NA	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA	NA
Anthracene	17,000	30,000	2,400	-	NA	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5	17	0.8	-	NA	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.5	2	0.2	-	NA	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	5	17	2	-	NA	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000	30,000	NLE	-	NA	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	45	170	25	-	NA	NA	NA	NA	NA	NA	NA
Benzoic Acid	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethoxy)methane	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethyl)ether	0.4	2	0.2	-	NA	NA	NA	NA	NA	NA	NA
Bis(2-Chloroisopropyl)ether	23	67	5	-	NA	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35	140	1,200	-	NA	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	1,200	14,000	230	-	NA	NA	NA	NA	NA	NA	NA
Carbazole	24	96	NLE	-	NA	NA	NA	NA	NA	NA	NA
Chrysene	450	1,700	80	-	NA	NA	NA	NA	NA	NA	NA
Cresol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.5	2	0.8	-	NA	NA	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Diethyl phthalate	49,000	550,000	88	-	NA	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100	68,000	760	-	NA	NA	NA	NA	NA	NA	NA
Di-n-octylphthalate	2,400	27,000	3,300	-	NA	NA	NA	NA	NA	NA	NA
Fluoranthene	2,300	24,000	1,300	-	NA	NA	NA	NA	NA	NA	NA
Fluorene	2,300	24,000	170	-	NA	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.3	1	0.2	-	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	6	25	0.9	-	NA	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	45	110	320	-	NA	NA	NA	NA	NA	NA	NA
Hexachloroethane	12	48	0.2	-	NA	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5	17	7	-	NA	NA	NA	NA	NA	NA	NA
Isophorone	510	2,000	0.2	-	NA	NA	NA	NA	NA	NA	NA
Naphthalene	6	17	25	-	NA	NA	NA	NA	NA	NA	NA
Nitrobenzene	5	14	0.2	-	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	0.7	0.7	0.7	-	NA	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	0.2	0.3	0.2	-	NA	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	99	390	0.4	-	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.9	3	0.3	-	NA	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA	NA
Phenol	18,000	210,000	8	-	NA	NA	NA	NA	NA	NA	NA
Pyrene	1,700	18,000	840	-	NA	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)											
Total TIC SVOCs	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Extractable/Volatile Petroleum Hydrocarbons (mg/kg)											
C10-C12 Aromatics	NLE	NLE	NLE	-	< 1.2	< 1.1	< 1.1	< 1.2	< 1.3	< 1.1	
C12-C16 Aliphatics	NLE	NLE	NLE	-	< 1.2 UJ	< 1.1 UJ	< 1.1 UJ	< 1.2 UJ	< 1.3 UJ	< 1.1 UJ	
C12-C16 Aromatics	NLE	NLE	NLE	-	1.8	< 1.1	< 1.1	< 1.2	< 1.3	< 1.1	
C16-C21 Aliphatics	NLE	NLE	NLE	-	< 1.2 UJ	< 1.1 UJ	< 1.1 UJ	< 1.2 UJ	< 1.3 UJ	< 1.1 UJ	
C16-C21 Aromatics	NLE	NLE	NLE	-	7.8	< 1.1	< 1.1	< 1.2	< 1.3	< 1.1	
C21-C36 Aromatics	NLE	NLE	NLE	-	8.3	< 1.1	0.37 J	< 1.2	< 1.3	< 1.1	
C21-C40 Aliphatics	NLE	NLE	NLE	-	8.5 J	< 1.1 UJ	0.84 J	0.64 J	< 1.3 UJ	< 1.1 UJ	
C9-C12 Aliphatics	NLE	NLE	NLE	-	0.4 J	< 1.1 UJ	< 1.1 UJ	< 1.2 UJ	< 1.3 UJ	< 1.1 UJ	
Total Aliphatics	NLE	NLE	NLE	-	9.4 J	< 4.6 UJ	< 4.5 UJ	< 4.9 UJ	< 5.2 UJ	< 4.2 UJ	
Total Aromatics	NLE	NLE	NLE	-	18.4	< 4.6	< 4.5	< 4.9	< 5.2	< 4.2	
Total EPH	SS	SS	SS	-	27.8	< 9.1	< 9.1	< 9.8	< 10.4	< 8.4	
PCBs (mg/kg)											
Aroclor-1016	NLE	NLE	NLE	-	< 0.029	< 0.029	< 0.028	< 0.031	< 0.031	< 0.027	
Aroclor-1221	NLE	NLE	NLE	-	< 0.029	< 0.029	< 0.028	< 0.031	< 0.031	< 0.027	
Aroclor-1232	NLE	NLE	NLE	-	< 0.029	< 0.029	< 0.028	< 0.031	< 0.031	< 0.027	
Aroclor-1242	NLE	NLE	NLE	-	< 0.029	< 0.029	< 0.028	< 0.031	< 0.031	< 0.027	
Aroclor-1248	NLE	NLE	NLE	-	< 0.029	< 0.029	< 0.028	< 0.031	< 0.031	< 0.027	
Aroclor-1254	NLE	NLE	NLE	-	< 0.029	< 0.029	< 0.028	< 0.031	< 0.031	< 0.027	
Aroclor-1260	NLE	NLE	NLE	-	< 0.029	< 0.029	< 0.028	< 0.031	< 0.031	< 0.027	

TABLE 6
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP Soil Remediation Standards
FTMM-08 Boring 10

Loc ID	NJ Residential Direct Contact SRS	NJ Non- Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM08-B10-SB-05		FTMM08-B10-SB-06			FTMM08-B10-SB-07
Sample ID	Contact SRS	Contact SRS	Contact SRS	Contact SRS	FTMM-08-B10-SB-05-5.5-6.0	FTMM-08-B10-SB-05-9.0-9.5	FTMM-08-B10-SB-06-2.5-3.0	FTMM-08-B10-SB-06-6.0-6.5	FTMM-08-B10-SB-06-9.0-9.5	FTMM-08-B10-SB-07-2.5-3.0
Sample Date					5/16/2018	5/16/2018	5/17/2018	5/17/2018	5/17/2018	5/16/2018
Aroclor-1268	NLE	NLE	NLE	-	< 0.029	< 0.029	< 0.028	< 0.031	< 0.031	< 0.027
Total PCBs	0.2	NLE	NLE	-	< 0.26	< 0.26	< 0.26	< 0.28	< 0.28	< 0.24
Inorganics (mg/kg)										
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA	NA
Molybdenum	NLE	NLE	NLE	ND	NA	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Strontium	NLE	NLE	NLE	ND	NA	NA	NA	NA	NA	NA
Thallium	NLE	NLE	3	ND	NA	NA	NA	NA	NA	NA
Tin	NLE	NLE	NLE	ND	NA	NA	NA	NA	NA	NA
Titanium	NLE	NLE	NLE	ND	NA	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA	NA

TABLE 6
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP Soil Remediation Standards
FTMM-08 Boring 10

Loc ID	NJ Residential Direct Contact SRS	NJ Non- Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM08-B10-SB-07			FTMM08-B10-SB-08		
Sample ID					FTMM-08-B10-SB-07-6.0-6.5	FTMM-08-B10-SB-107-6.0-6.5	FTMM-08-B10-SB-07-9.0-9.5	FTMM-08-B10-SB-08-2.5-3.0	FTMM-08-B10-SB-08-6.0-6.5	FTMM-08-B10-SB-08-9.0-9.5
Sample Date					5/16/2018	5/16/2018	5/16/2018	5/17/2018	5/17/2018	5/17/2018
Volatile Organic Compounds (mg/kg)										
1,1,1,2-Tetrachloroethane	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,1,1-Trichloroethane	160,000	NLE	0.3	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,1,2,2-Tetrachloroethane	1	3	0.007	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,1,2-Trichloroethane	2	6	0.02	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,1-Dichloroethane	8	24	0.2	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,1-Dichloroethene	11	150	0.008	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,1-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,2,3-Trichlorobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,2,3-Trichloropropane	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,2,4-Trichlorobenzene	73	820	0.7	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,2,4-Trimethylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,2-Dibromo-3-chloropropane	0.08	0.2	0.005	-	NA	NA	NA	NA	< 0.0015 UJ	NA
1,2-Dibromoethane	0.008	0.04	0.005	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,2-Dichlorobenzene	5,300	59,000	17	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,2-Dichloroethane	0.9	3	0.005	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,2-Dichloropropane	2	5	0.005	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,3,5-Trimethylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,3-Dichlorobenzene	5,300	59,000	19	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,3-Dichloropropane	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,4-Dichlorobenzene	5	13	2	-	NA	NA	NA	NA	< 0.0006 UJ	NA
2,2-Dichloropropane	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
2-Chlorotoluene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Acetone	70,000	NLE	19	-	NA	NA	NA	NA	0.0055 J	NA
Benzene	2	5	0.005	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Bromobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Bromochloromethane	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Bromodichloromethane	1	3	0.005	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Bromoform	81	280	0.03	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Carbon tetrachloride	2	4	0.005	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Chlorobenzene	510	7,400	0.6	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Chlorodibromomethane	3	8	0.005	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Chloroethane	220	1,100	NLE	-	NA	NA	NA	NA	< 0.0015 UJ	NA
Chloroform	0.6	2	0.4	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Cis-1,2-Dichloroethene	230	560	0.3	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Cis-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Cymene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Dichlorodifluoromethane	490	230,000	39	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Ethyl benzene	7,800	110,000	13	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Hexachlorobutadiene	6	25	0.9	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Isopropylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Meta/Para Xylene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0012 UJ	NA
Methyl bromide	25	59	0.04	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Methyl butyl ketone	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0029 UJ	NA
Methyl chloride	4	12	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Methyl ethyl ketone	3,100	44,000	0.9	-	NA	NA	NA	NA	< 0.0029 UJ	NA
Methyl isobutyl ketone	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0029 UJ	NA
Methyl Tertbutyl Ether	110	320	0.2	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Methylene chloride	46	230	0.01	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Naphthalene	6	17	25	-	NA	NA	NA	NA	< 0.0006 UJ	NA
n-Butylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Ortho Xylene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
p-Chlorotoluene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Propylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
sec-Butylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Styrene	90	260	3	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Tert Butyl Alcohol	1,400	11,000	0.3	-	NA	NA	NA	NA	< 0.0029 UJ	NA
tert-Butylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Tetrachloroethene	43	1,500	0.005	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Toluene	6,300	91,000	7	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Trans-1,2-Dichloroethene	300	720	0.6	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Trans-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Trichloroethene	3	10	0.01	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Trichlorofluoromethane	23,000	340,000	34	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Vinyl chloride	0.7	2	0.005	-	NA	NA	NA	NA	< 0.0006 UJ	NA
TIC VOCs (µg/kg)										
Total TIC VOCs	NLE	NLE	NLE		NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)										
1,2,4-Trichlorobenzene	73	820	0.7	-	NA	NA	NA	NA	< 0.079	NA
1,2-Dichlorobenzene	5,300	59,000	17	-	NA	NA	NA	NA	< 0.079	NA
1,2-Diphenylhydrazine	0.7	2	0.7	-	NA	NA	NA	NA	< 0.079	NA
1,3-Dichlorobenzene	5,300	59,000	19	-	NA	NA	NA	NA	< 0.079	NA
1,4-Dichlorobenzene	5	13	2	-	NA	NA	NA	NA	< 0.079	NA
2,4,5-Trichlorophenol	6,100	68,000	68	-	NA	NA	NA	NA	< 0.079	NA
2,4,6-Trichlorophenol	19	74	0.2	-	NA	NA	NA	NA	< 0.079	NA
2,4-Dichlorophenol	180	2,100	0.2	-	NA	NA	NA	NA	< 0.079	NA
2,4-Dimethylphenol	1,200	14,000	1	-	NA	NA	NA	NA	< 0.16	NA
2,4-Dinitrophenol	120	1,400	0.3	-	NA	NA	NA	NA	< 0.47	NA
2,4-Dinitrotoluene	0.7	3	NLE	-	NA	NA	NA	NA	< 0.079	NA

TABLE 6
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP Soil Remediation Standards
FTMM-08 Boring 10

Loc ID	NJ Residential Direct Contact SRS	NJ Non- Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM08-B10-SB-07			FTMM08-B10-SB-08		
					FTMM-08-B10-SB-07-6.0-6.5	FTMM-08-B10-SB-107-6.0-6.5	FTMM-08-B10-SB-07-9.0-9.5	FTMM-08-B10-SB-08-2.5-3.0	FTMM-08-B10-SB-08-6.0-6.5	FTMM-08-B10-SB-08-9.0-9.5
Sample ID	Contact SRS	Contact SRS	Contact SRS	Contact SRS	5/16/2018	5/16/2018	5/16/2018	5/17/2018	5/17/2018	5/17/2018
Sample Date					5/16/2018	5/16/2018	5/16/2018	5/17/2018	5/17/2018	5/17/2018
2,6-Dinitrotoluene	0.7	3	NLE	-	NA	NA	NA	NA	< 0.079	NA
2-Chloronaphthalene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.079	NA
2-Chlorophenol	310	2,200	0.8	-	NA	NA	NA	NA	< 0.24	NA
2-Methylnaphthalene	230	2,400	8	-	NA	NA	NA	NA	< 0.079	NA
2-Methylphenol	310	3,400	NLE	-	NA	NA	NA	NA	< 0.079	NA
2-Nitroaniline	39	23,000	NLE	-	NA	NA	NA	NA	< 0.24	NA
2-Nitrophenol	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.079	NA
3,3'-Dichlorobenzidine	1	4	0.2	-	NA	NA	NA	NA	< 0.24	NA
3-Nitroaniline	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.24	NA
4,6-Dinitro-2-methylphenol	6	68	0.3	-	NA	NA	NA	NA	< 0.24	NA
4-Bromophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.079	NA
4-Chloro-3-methylphenol	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.079	NA
4-Chloroaniline	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.24	NA
4-Chlorophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.079	NA
4-Nitroaniline	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.24	NA
4-Nitrophenol	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.16	NA
Acenaphthene	3,400	37,000	110	-	NA	NA	NA	NA	< 0.079	NA
Acenaphthylene	NLE	300,000	NLE	-	NA	NA	NA	NA	< 0.079	NA
Anthracene	17,000	30,000	2,400	-	NA	NA	NA	NA	< 0.079	NA
Benzo(a)anthracene	5	17	0.8	-	NA	NA	NA	NA	< 0.079	NA
Benzo(a)pyrene	0.5	2	0.2	-	NA	NA	NA	NA	< 0.079	NA
Benzo(b)fluoranthene	5	17	2	-	NA	NA	NA	NA	< 0.079	NA
Benzo(ghi)perylene	380,000	30,000	NLE	-	NA	NA	NA	NA	< 0.079	NA
Benzo(k)fluoranthene	45	170	25	-	NA	NA	NA	NA	< 0.079	NA
Benzoic Acid	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.47	NA
Benzyl alcohol	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.24	NA
Bis(2-Chloroethoxy)methane	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.079	NA
Bis(2-Chloroethyl)ether	0.4	2	0.2	-	NA	NA	NA	NA	< 0.079	NA
Bis(2-Chloroisopropyl)ether	23	67	5	-	NA	NA	NA	NA	< 0.079	NA
Bis(2-Ethylhexyl)phthalate	35	140	1,200	-	NA	NA	NA	NA	< 0.24	NA
Butyl benzyl phthalate	1,200	14,000	230	-	NA	NA	NA	NA	< 0.079	NA
Carbazole	24	96	NLE	-	NA	NA	NA	NA	< 0.079	NA
Chrysene	450	1,700	80	-	NA	NA	NA	NA	< 0.079	NA
Cresol	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.079	NA
Dibenz(a,h)anthracene	0.5	2	0.8	-	NA	NA	NA	NA	< 0.079	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.079	NA
Diethyl phthalate	49,000	550,000	88	-	NA	NA	NA	NA	< 0.079	NA
Dimethyl phthalate	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.079	NA
Di-n-butylphthalate	6,100	68,000	760	-	NA	NA	NA	NA	< 0.079	NA
Di-n-octylphthalate	2,400	27,000	3,300	-	NA	NA	NA	NA	< 0.079	NA
Fluoranthene	2,300	24,000	1,300	-	NA	NA	NA	NA	< 0.079	NA
Fluorene	2,300	24,000	170	-	NA	NA	NA	NA	< 0.079	NA
Hexachlorobenzene	0.3	1	0.2	-	NA	NA	NA	NA	< 0.079	NA
Hexachlorobutadiene	6	25	0.9	-	NA	NA	NA	NA	< 0.079	NA
Hexachlorocyclopentadiene	45	110	320	-	NA	NA	NA	NA	< 0.24	NA
Hexachloroethane	12	48	0.2	-	NA	NA	NA	NA	< 0.079	NA
Indeno(1,2,3-cd)pyrene	5	17	7	-	NA	NA	NA	NA	< 0.079	NA
Isophorone	510	2,000	0.2	-	NA	NA	NA	NA	< 0.079	NA
Naphthalene	6	17	25	-	NA	NA	NA	NA	< 0.079	NA
Nitrobenzene	5	14	0.2	-	NA	NA	NA	NA	< 0.079	NA
N-Nitrosodimethylamine	0.7	0.7	0.7	-	NA	NA	NA	NA	< 0.16	NA
N-Nitroso-di-n-propylamine	0.2	0.3	0.2	-	NA	NA	NA	NA	< 0.24	NA
N-Nitrosodiphenylamine	99	390	0.4	-	NA	NA	NA	NA	< 0.079	NA
Pentachlorophenol	0.9	3	0.3	-	NA	NA	NA	NA	< 0.24	NA
Phenanthrene	NLE	300,000	NLE	-	NA	NA	NA	NA	< 0.079	NA
Phenol	18,000	210,000	8	-	NA	NA	NA	NA	< 0.079	NA
Pyrene	1,700	18,000	840	-	NA	NA	NA	NA	< 0.079	NA
TIC SVOCs (mg/kg)										
Total TIC SVOCs	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Extractable/Volatile Petroleum Hydrocarbons (mg/kg)										
C10-C12 Aromatics	NLE	NLE	NLE	-	< 1.2	< 1.2	< 1.2	< 1.1	< 1.1	< 1.2
C12-C16 Aliphatics	NLE	NLE	NLE	-	< 1.2 UJ	< 1.2 UJ	< 1.2 UJ	< 1.1 UJ	< 1.1 UJ	< 1.2 UJ
C12-C16 Aromatics	NLE	NLE	NLE	-	< 1.2	< 1.2	< 1.2	< 1.1	< 1.1	< 1.2
C16-C21 Aliphatics	NLE	NLE	NLE	-	< 1.2 UJ	< 1.2 UJ	< 1.2 UJ	1.6 J	< 1.1 UJ	< 1.2 UJ
C16-C21 Aromatics	NLE	NLE	NLE	-	< 1.2	< 1.2	< 1.2	< 1.1	0.21 J	< 1.2
C21-C36 Aromatics	NLE	NLE	NLE	-	0.49 J	< 1.2	< 1.2	< 1.1	< 1.1	< 1.2
C21-C40 Aliphatics	NLE	NLE	NLE	-	1.3 J	< 1.2 UJ	< 1.2 UJ	62.4 J-	< 1.1 UJ	< 1.2 UJ
C9-C12 Aliphatics	NLE	NLE	NLE	-	< 1.2 UJ	< 1.2 UJ	< 1.2 UJ	< 1.1 UJ	< 1.2 UJ	< 1.2 UJ
Total Aliphatics	NLE	NLE	NLE	-	< 4.9 UJ	< 4.8 UJ	< 4.8 UJ	64.4 J-	< 4.5 UJ	< 4.9 UJ
Total Aromatics	NLE	NLE	NLE	-	< 4.9	< 4.8	< 4.8	< 4.5	< 4.5	< 4.9
Total EPH	SS	SS	SS	-	< 9.9	< 9.7	< 9.6	65	< 9	< 9.7
PCBs (mg/kg)										
Aroclor-1016	NLE	NLE	NLE	-	< 0.031	< 0.03	< 0.03	< 0.028	< 0.028	< 0.031
Aroclor-1221	NLE	NLE	NLE	-	< 0.031	< 0.03	< 0.03	< 0.028	< 0.028	< 0.031
Aroclor-1232	NLE	NLE	NLE	-	< 0.031	< 0.03	< 0.03	< 0.028	< 0.028	< 0.031
Aroclor-1242	NLE	NLE	NLE	-	< 0.031	< 0.03	< 0.03	< 0.028	< 0.028	< 0.031
Aroclor-1248	NLE	NLE	NLE	-	< 0.031	< 0.03	< 0.03	< 0.028	< 0.028	< 0.031
Aroclor-1254	NLE	NLE	NLE	-	< 0.031	< 0.03	< 0.03	0.019 J	< 0.028	< 0.031
Aroclor-1260	NLE	NLE	NLE	-	< 0.031	< 0.03	< 0.03	< 0.028	< 0.028	< 0.031

TABLE 6
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP Soil Remediation Standards
FTMM-08 Boring 10

Loc ID	NJ Residential Direct Contact SRS	NJ Non- Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM08-B10-SB-07			FTMM08-B10-SB-08		
Sample ID					FTMM-08-B10-SB-07-6.0-6.5	FTMM-08-B10-SB-107-6.0-6.5	FTMM-08-B10-SB-07-9.0-9.5	FTMM-08-B10-SB-08-2.5-3.0	FTMM-08-B10-SB-08-6.0-6.5	FTMM-08-B10-SB-08-9.0-9.5
Sample Date					5/16/2018	5/16/2018	5/16/2018	5/17/2018	5/17/2018	5/17/2018
Aroclor-1268	NLE	NLE	NLE	-	< 0.031	< 0.03	< 0.03	< 0.028	< 0.028	< 0.031
Total PCBs	0.2	NLE	NLE	-	< 0.28	< 0.27	< 0.27	< 0.25	< 0.25	< 0.28
Inorganics (mg/kg)										
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	2,140 J	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	< 0.74	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	4.8	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	6.4 J	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	0.27 J	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	< 0.38	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	265 J	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	33.1 J	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	< 1.9	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	1.5 J	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	8,750	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	3.7	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	301 J	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	3.6 J	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	0.053 J	NA
Molybdenum	NLE	NLE	NLE	ND	NA	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	1.8 J	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	772 J	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	< 1.9	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	< 0.74	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	50.1 J	NA
Strontium	NLE	NLE	NLE	ND	NA	NA	NA	NA	NA	NA
Thallium	NLE	NLE	3	ND	NA	NA	NA	NA	< 0.38	NA
Tin	NLE	NLE	NLE	ND	NA	NA	NA	NA	NA	NA
Titanium	NLE	NLE	NLE	ND	NA	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	17 J	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	13.5 J	NA

TABLE 6
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FTMM-08 Boring 10

Loc ID	NJ Residential Direct Contact SRS	NJ Non- Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM08-B10-SB-09			FTMM08-B10-SB-10		
Sample ID					FTMM-08-B10-SB-09-3.0-3.5	FTMM-08-B10-SB-09-6.0-6.5	FTMM-08-B10-SB-09-9.0-9.5	FTMM-08-B10-SB-10-2.0-2.5	FTMM-08-B10-SB-10-5.5-6.0	FTMM-08-B10-SB-10-9.0-9.5
Sample Date					5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018
Volatile Organic Compounds (mg/kg)										
1,1,1,2-Tetrachloroethane	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	160,000	NLE	0.3	-	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	1	3	0.007	-	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	2	6	0.02	-	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	8	24	0.2	-	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	11	150	0.008	-	NA	NA	NA	NA	NA	NA
1,1-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	73	820	0.7	-	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.08	0.2	0.005	-	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.008	0.04	0.005	-	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	5,300	59,000	17	-	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.9	3	0.005	-	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	2	5	0.005	-	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	5,300	59,000	19	-	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	5	13	2	-	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Acetone	70,000	NLE	19	-	NA	NA	NA	NA	NA	NA
Benzene	2	5	0.005	-	NA	NA	NA	NA	NA	NA
Bromobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Bromochloromethane	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Bromodichloromethane	1	3	0.005	-	NA	NA	NA	NA	NA	NA
Bromoform	81	280	0.03	-	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	2	4	0.005	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	510	7,400	0.6	-	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	3	8	0.005	-	NA	NA	NA	NA	NA	NA
Chloroethane	220	1,100	NLE	-	NA	NA	NA	NA	NA	NA
Chloroform	0.6	2	0.4	-	NA	NA	NA	NA	NA	NA
Cis-1,2-Dichloroethene	230	560	0.3	-	NA	NA	NA	NA	NA	NA
Cis-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Cymene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	490	230,000	39	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800	110,000	13	-	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	6	25	0.9	-	NA	NA	NA	NA	NA	NA
Isopropylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Meta/Para Xylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Methyl bromide	25	59	0.04	-	NA	NA	NA	NA	NA	NA
Methyl butyl ketone	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Methyl chloride	4	12	NLE	-	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100	44,000	0.9	-	NA	NA	NA	NA	NA	NA
Methyl isobutyl ketone	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	110	320	0.2	-	NA	NA	NA	NA	NA	NA
Methylene chloride	46	230	0.01	-	NA	NA	NA	NA	NA	NA
Naphthalene	6	17	25	-	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Ortho Xylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
p-Chlorotoluene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Styrene	90	260	3	-	NA	NA	NA	NA	NA	NA
Tert Butyl Alcohol	1,400	11,000	0.3	-	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Tetrachloroethene	43	1,500	0.005	-	NA	NA	NA	NA	NA	NA
Toluene	6,300	91,000	7	-	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	300	720	0.6	-	NA	NA	NA	NA	NA	NA
Trans-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Trichloroethene	3	10	0.01	-	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	23,000	340,000	34	-	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.7	2	0.005	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC VOCs	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)										
1,2,4-Trichlorobenzene	73	820	0.7	-	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	5,300	59,000	17	-	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	0.7	2	0.7	-	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	5,300	59,000	19	-	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	5	13	2	-	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	6,100	68,000	68	-	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	19	74	0.2	-	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	180	2,100	0.2	-	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	1,200	14,000	1	-	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	120	1,400	0.3	-	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	0.7	3	NLE	-	NA	NA	NA	NA	NA	NA

TABLE 6
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP Soil Remediation Standards
FTMM-08 Boring 10

Loc ID	NJ Residential Direct Contact SRS	NJ Non- Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM08-B10-SB-09			FTMM08-B10-SB-10		
					FTMM-08-B10-SB-09-3.0-3.5	FTMM-08-B10-SB-09-6.0-6.5	FTMM-08-B10-SB-09-9.0-9.5	FTMM-08-B10-SB-10-2.0-2.5	FTMM-08-B10-SB-10-5.5-6.0	FTMM-08-B10-SB-10-9.0-9.5
Sample ID	Sample Date				5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018
2,6-Dinitrotoluene	0.7	3	NLE	-	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
2-Chlorophenol	310	2,200	0.8	-	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	230	2,400	8	-	NA	NA	NA	NA	NA	NA
2-Methylphenol	310	3,400	NLE	-	NA	NA	NA	NA	NA	NA
2-Nitroaniline	39	23,000	NLE	-	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	1	4	0.2	-	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	6	68	0.3	-	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Acenaphthene	3,400	37,000	110	-	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA
Anthracene	17,000	30,000	2,400	-	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5	17	0.8	-	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.5	2	0.2	-	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	5	17	2	-	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000	30,000	NLE	-	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	45	170	25	-	NA	NA	NA	NA	NA	NA
Benzoic Acid	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethoxy)methane	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethyl)ether	0.4	2	0.2	-	NA	NA	NA	NA	NA	NA
Bis(2-Chloroisopropyl)ether	23	67	5	-	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35	140	1,200	-	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	1,200	14,000	230	-	NA	NA	NA	NA	NA	NA
Carbazole	24	96	NLE	-	NA	NA	NA	NA	NA	NA
Chrysene	450	1,700	80	-	NA	NA	NA	NA	NA	NA
Cresol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.5	2	0.8	-	NA	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Diethyl phthalate	49,000	550,000	88	-	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100	68,000	760	-	NA	NA	NA	NA	NA	NA
Di-n-octylphthalate	2,400	27,000	3,300	-	NA	NA	NA	NA	NA	NA
Fluoranthene	2,300	24,000	1,300	-	NA	NA	NA	NA	NA	NA
Fluorene	2,300	24,000	170	-	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.3	1	0.2	-	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	6	25	0.9	-	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	45	110	320	-	NA	NA	NA	NA	NA	NA
Hexachloroethane	12	48	0.2	-	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5	17	7	-	NA	NA	NA	NA	NA	NA
Isophorone	510	2,000	0.2	-	NA	NA	NA	NA	NA	NA
Naphthalene	6	17	25	-	NA	NA	NA	NA	NA	NA
Nitrobenzene	5	14	0.2	-	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	0.7	0.7	0.7	-	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	0.2	0.3	0.2	-	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	99	390	0.4	-	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.9	3	0.3	-	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA
Phenol	18,000	210,000	8	-	NA	NA	NA	NA	NA	NA
Pyrene	1,700	18,000	840	-	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)										
Total TIC SVOCs	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Extractable/Volatile Petroleum Hydrocarbons (mg/kg)										
C10-C12 Aromatics	NLE	NLE	NLE	-	< 1	< 1.1	< 1.2	< 1.1	< 1.2	< 1.3
C12-C16 Aliphatics	NLE	NLE	NLE	-	< 1 UJ	< 1.1 UJ	< 1.2 UJ	< 1.1 UJ	< 1.2 UJ	< 1.3 UJ
C12-C16 Aromatics	NLE	NLE	NLE	-	< 1	0.2 J	< 1.2	1 J	< 1.2	< 1.3
C16-C21 Aliphatics	NLE	NLE	NLE	-	< 1 UJ	< 1.1 UJ	< 1.2 UJ	< 1.1 UJ	< 1.2 UJ	< 1.3 UJ
C16-C21 Aromatics	NLE	NLE	NLE	-	< 1	1.1 J	< 1.2	8.5	0.68 J	< 1.3
C21-C36 Aromatics	NLE	NLE	NLE	-	< 1	2.6	< 1.2	12.4	1.1 J	< 1.3
C21-C40 Aliphatics	NLE	NLE	NLE	-	0.55 J	< 1.1 UJ	< 1.2 UJ	4.7 J-	4.5 J-	< 1.3 UJ
C9-C12 Aliphatics	NLE	NLE	NLE	-	< 1 UJ	< 1.1 UJ	< 1.2 UJ	0.2 J	0.17 J	< 1.3 UJ
Total Aliphatics	NLE	NLE	NLE	-	< 4.2 UJ	< 4.4 UJ	< 4.8 UJ	5.5 J-	5.1 J-	< 5.1 UJ
Total Aromatics	NLE	NLE	NLE	-	< 4.2	4.1 J	< 4.8	22.1	2.2 J	< 5.1
Total EPH	SS	SS	SS	-	< 8.4	4.3 J	< 9.6	27.7	7.3 J	< 10.2
PCBs (mg/kg)										
Aroclor-1016	NLE	NLE	NLE	-	< 0.026	< 0.027	< 0.03	< 0.029	< 0.028	< 0.031
Aroclor-1221	NLE	NLE	NLE	-	< 0.026	< 0.027	< 0.026	< 0.029	< 0.028	< 0.031
Aroclor-1232	NLE	NLE	NLE	-	< 0.026	< 0.027	< 0.03	< 0.029	< 0.028	< 0.031
Aroclor-1242	NLE	NLE	NLE	-	< 0.026	< 0.027	< 0.03	< 0.029	< 0.028	< 0.031
Aroclor-1248	NLE	NLE	NLE	-	< 0.026	< 0.027	< 0.03	< 0.029	< 0.028	< 0.031
Aroclor-1254	NLE	NLE	NLE	-	< 0.026	< 0.027	< 0.03	0.21 JN	0.025 JN	< 0.031
Aroclor-1260	NLE	NLE	NLE	-	< 0.026	< 0.027	< 0.03	0.13	0.017 J	< 0.031

TABLE 6
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP Soil Remediation Standards
FTMM-08 Boring 10

Loc ID	NJ Residential Direct Contact SRS	NJ Non- Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM08-B10-SB-09			FTMM08-B10-SB-10		
Sample ID					FTMM-08-B10-SB-09-3.0-3.5	FTMM-08-B10-SB-09-6.0-6.5	FTMM-08-B10-SB-09-9.0-9.5	FTMM-08-B10-SB-10-2.0-2.5	FTMM-08-B10-SB-10-5.5-6.0	FTMM-08-B10-SB-10-9.0-9.5
Sample Date					5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018
Aroclor-1268	NLE	NLE	NLE	-	< 0.026	< 0.027	< 0.03	< 0.029	< 0.028	< 0.031
Total PCBs	0.2	NLE	NLE	-	< 0.24	< 0.25	< 0.27	0.34 J	< 0.26	< 0.28
Inorganics (mg/kg)										
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA	NA
Molybdenum	NLE	NLE	NLE	ND	NA	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Strontium	NLE	NLE	NLE	ND	NA	NA	NA	NA	NA	NA
Thallium	NLE	NLE	3	ND	NA	NA	NA	NA	NA	NA
Tin	NLE	NLE	NLE	ND	NA	NA	NA	NA	NA	NA
Titanium	NLE	NLE	NLE	ND	NA	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	NA	NA	NA	NA	NA	NA

TABLE 6
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP Soil Remediation Standards
FTMM-08 Boring 10

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM08-B10-SB-13			FTMM08-B10-SB-14		
Sample ID	Contact SRS	Contact SRS			FTMM-08-B10-SB-13-2.5-3	FTMM-08-B10-SB-13-6.0-6.5	FTMM-08-B10-SB-13-9.0-9.5	FTMM-08-B10-SB-14-2.5-3	FTMM-08-B10-SB-14-6.0-6.5	FTMM-08-B10-SB-14-9.0-9.5
Sample Date					5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018
Volatile Organic Compounds (mg/kg)										
1,1,1,2-Tetrachloroethane	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	160,000	NLE	0.3	-	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	1	3	0.007	-	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	2	6	0.02	-	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	8	24	0.2	-	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	11	150	0.008	-	NA	NA	NA	NA	NA	NA
1,1-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	73	820	0.7	-	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.08	0.2	0.005	-	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.008	0.04	0.005	-	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	5,300	59,000	17	-	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.9	3	0.005	-	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	2	5	0.005	-	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	5,300	59,000	19	-	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	5	13	2	-	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Acetone	70,000	NLE	19	-	NA	NA	NA	NA	NA	NA
Benzene	2	5	0.005	-	NA	NA	NA	NA	NA	NA
Bromobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Bromochloromethane	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Bromodichloromethane	1	3	0.005	-	NA	NA	NA	NA	NA	NA
Bromoform	81	280	0.03	-	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	2	4	0.005	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	510	7,400	0.6	-	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	3	8	0.005	-	NA	NA	NA	NA	NA	NA
Chloroethane	220	1,100	NLE	-	NA	NA	NA	NA	NA	NA
Chloroform	0.6	2	0.4	-	NA	NA	NA	NA	NA	NA
Cis-1,2-Dichloroethene	230	560	0.3	-	NA	NA	NA	NA	NA	NA
Cis-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Cymene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	490	230,000	39	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	7,800	110,000	13	-	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	6	25	0.9	-	NA	NA	NA	NA	NA	NA
Isopropylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Meta/Para Xylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Methyl bromide	25	59	0.04	-	NA	NA	NA	NA	NA	NA
Methyl butyl ketone	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Methyl chloride	4	12	NLE	-	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	3,100	44,000	0.9	-	NA	NA	NA	NA	NA	NA
Methyl isobutyl ketone	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	110	320	0.2	-	NA	NA	NA	NA	NA	NA
Methylene chloride	46	230	0.01	-	NA	NA	NA	NA	NA	NA
Naphthalene	6	17	25	-	NA	NA	NA	NA	NA	NA
n-Butylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Ortho Xylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
p-Chlorotoluene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Propylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Styrene	90	260	3	-	NA	NA	NA	NA	NA	NA
Tert Butyl Alcohol	1,400	11,000	0.3	-	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Tetrachloroethene	43	1,500	0.005	-	NA	NA	NA	NA	NA	NA
Toluene	6,300	91,000	7	-	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	300	720	0.6	-	NA	NA	NA	NA	NA	NA
Trans-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Trichloroethene	3	10	0.01	-	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	23,000	340,000	34	-	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.7	2	0.005	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC VOCs	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)										
1,2,4-Trichlorobenzene	73	820	0.7	-	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	5,300	59,000	17	-	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	0.7	2	0.7	-	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	5,300	59,000	19	-	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	5	13	2	-	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	6,100	68,000	68	-	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	19	74	0.2	-	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	180	2,100	0.2	-	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	1,200	14,000	1	-	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	120	1,400	0.3	-	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	0.7	3	NLE	-	NA	NA	NA	NA	NA	NA

TABLE 6
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP Soil Remediation Standards
FTMM-08 Boring 10

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM08-B10-SB-13			FTMM08-B10-SB-14		
					FTMM-08-B10-SB-13-2.5-3	FTMM-08-B10-SB-13-6.0-6.5	FTMM-08-B10-SB-13-9.0-9.5	FTMM-08-B10-SB-14-2.5-3	FTMM-08-B10-SB-14-6.0-6.5	FTMM-08-B10-SB-14-9.0-9.5
Sample ID	Contact SRS	Contact SRS	Contact SRS	Contact SRS	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018
Sample Date					5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018
2,6-Dinitrotoluene	0.7	3	NLE	-	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
2-Chlorophenol	310	2,200	0.8	-	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	230	2,400	8	-	NA	NA	NA	NA	NA	NA
2-Methylphenol	310	3,400	NLE	-	NA	NA	NA	NA	NA	NA
2-Nitroaniline	39	23,000	NLE	-	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	1	4	0.2	-	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	6	68	0.3	-	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
4-Chloroaniline	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
4-Nitroaniline	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Acenaphthene	3,400	37,000	110	-	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA
Anthracene	17,000	30,000	2,400	-	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	5	17	0.8	-	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.5	2	0.2	-	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	5	17	2	-	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	380,000	30,000	NLE	-	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	45	170	25	-	NA	NA	NA	NA	NA	NA
Benzoic Acid	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Benzyl alcohol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethoxy)methane	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethyl)ether	0.4	2	0.2	-	NA	NA	NA	NA	NA	NA
Bis(2-Chloroisopropyl)ether	23	67	5	-	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	35	140	1,200	-	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	1,200	14,000	230	-	NA	NA	NA	NA	NA	NA
Carbazole	24	96	NLE	-	NA	NA	NA	NA	NA	NA
Chrysene	450	1,700	80	-	NA	NA	NA	NA	NA	NA
Cresol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.5	2	0.8	-	NA	NA	NA	NA	NA	NA
Dibenzofuran	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Diethyl phthalate	49,000	550,000	88	-	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	6,100	68,000	760	-	NA	NA	NA	NA	NA	NA
Di-n-octylphthalate	2,400	27,000	3,300	-	NA	NA	NA	NA	NA	NA
Fluoranthene	2,300	24,000	1,300	-	NA	NA	NA	NA	NA	NA
Fluorene	2,300	24,000	170	-	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.3	1	0.2	-	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	6	25	0.9	-	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	45	110	320	-	NA	NA	NA	NA	NA	NA
Hexachloroethane	12	48	0.2	-	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	5	17	7	-	NA	NA	NA	NA	NA	NA
Isophorone	510	2,000	0.2	-	NA	NA	NA	NA	NA	NA
Naphthalene	6	17	25	-	NA	NA	NA	NA	NA	NA
Nitrobenzene	5	14	0.2	-	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	0.7	0.7	0.7	-	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	0.2	0.3	0.2	-	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	99	390	0.4	-	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.9	3	0.3	-	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	300,000	NLE	-	NA	NA	NA	NA	NA	NA
Phenol	18,000	210,000	8	-	NA	NA	NA	NA	NA	NA
Pyrene	1,700	18,000	840	-	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)										
Total TIC SVOCs	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Extractable/Volatile Petroleum Hydrocarbons (mg/kg)										
C10-C12 Aromatics	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
C12-C16 Aliphatics	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
C12-C16 Aromatics	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
C16-C21 Aliphatics	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
C16-C21 Aromatics	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
C21-C36 Aromatics	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
C21-C40 Aliphatics	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
C9-C12 Aliphatics	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Total Aliphatics	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Total Aromatics	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Total EPH	SS	SS	SS	-	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)										
Aroclor-1016	NLE	NLE	NLE	-	< 0.03	< 0.032	< 0.032	< 0.028	< 0.034	< 0.031
Aroclor-1221	NLE	NLE	NLE	-	< 0.03	< 0.032	< 0.032	< 0.028	< 0.034	< 0.031
Aroclor-1232	NLE	NLE	NLE	-	< 0.03	< 0.032	< 0.032	< 0.028	< 0.034	< 0.031
Aroclor-1242	NLE	NLE	NLE	-	< 0.03	< 0.032	< 0.032	< 0.028	< 0.034	< 0.031
Aroclor-1248	NLE	NLE	NLE	-	< 0.03	< 0.032	< 0.032	< 0.028	< 0.034	< 0.031
Aroclor-1254	NLE	NLE	NLE	-	< 0.03	< 0.032	< 0.032	< 0.028	< 0.034	< 0.031
Aroclor-1260	NLE	NLE	NLE	-	< 0.03	< 0.032	< 0.032	< 0.028	< 0.034	< 0.031

TABLE 6
SOIL SAMPLING RESULTS - COMPARISON TO NJDEP Soil Remediation Standards
FTMM-08 Boring 10

Loc ID	NJ Residential Direct Contact SRS	NJ Non-Residential Direct Contact SRS	NJ Impact to GW Soil Screening Level	Weston 1995 Background (Main Post)	FTMM08-B10-SB-13			FTMM08-B10-SB-14		
Sample ID	Sample Date	NLE	NLE	-	FTMM-08-B10-SB-13-2.5-3	FTMM-08-B10-SB-13-6.0-6.5	FTMM-08-B10-SB-13-9.0-9.5	FTMM-08-B10-SB-14-2.5-3	FTMM-08-B10-SB-14-6.0-6.5	FTMM-08-B10-SB-14-9.0-9.5
Sample Date					5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018
Aroclor-1268					< 0.03	< 0.032	< 0.032	< 0.028	< 0.034	< 0.031
Total PCBs					< 0.27	< 0.29	< 0.28	< 0.25	< 0.31	< 0.28
Inorganics (mg/kg)										
Aluminum	78,000	NLE	6,000	15,200	NA	NA	NA	NA	NA	NA
Antimony	31	450	6	ND	NA	NA	NA	NA	NA	NA
Arsenic	19	19	19	22.9	NA	NA	NA	NA	NA	NA
Barium	16,000	59,000	2,100	32.3	NA	NA	NA	NA	NA	NA
Beryllium	16	140	0.7	2	NA	NA	NA	NA	NA	NA
Cadmium	78	78	2	ND	NA	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA	NA
Chromium	NLE	NLE	NLE	269	NA	NA	NA	NA	NA	NA
Cobalt	1,600	590	90	2.5	NA	NA	NA	NA	NA	NA
Copper	3,100	45,000	11,000	8	NA	NA	NA	NA	NA	NA
Iron	NLE	NLE	NLE	55,800	NA	NA	NA	NA	NA	NA
Lead	400	800	90	19.5	NA	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA	NA
Manganese	11,000	5,900	65	90.7	NA	NA	NA	NA	NA	NA
Mercury	23	65	0.1	ND	NA	NA	NA	NA	NA	NA
Molybdenum	NLE	NLE	NLE	ND	NA	NA	NA	NA	NA	NA
Nickel	1,600	23,000	48	8.4	NA	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA	NA
Selenium	390	5,700	11	1.9	NA	NA	NA	NA	NA	NA
Silver	390	5,700	1	1.1	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Strontium	NLE	NLE	NLE	ND	NA	NA	NA	NA	NA	NA
Thallium	NLE	NLE	3	ND	NA	NA	NA	NA	NA	NA
Tin	NLE	NLE	NLE	ND	NA	NA	NA	NA	NA	NA
Titanium	NLE	NLE	NLE	ND	NA	NA	NA	NA	NA	NA
Vanadium	78	1,100	NLE	94.1	NA	NA	NA	NA	NA	NA
Zinc	23,000	110,000	930	81.4	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 detection
- 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 concentration 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.

a) DELETE THIS NOTE BEFORE GOING FINAL: Refer to the NJDEP Protocol for Addressing Extractable Petroleum Hydrocarbons (Version 5.0, August 9, 2010) and the NJDEP Health Based and Ecological Screening Criteria for Petroleum Hydrocarbons (Version 4.0, August 9, 2010) to determine the category of tank being investigated and the appropriate cleanup standards or screening levels for that category of tank.

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 Style values represent a result that is above the Weston 1995 Background (Main Post).

###

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

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

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

###

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

###

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/depl/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/depl/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/depl/srpl/guidance/rs/partition_equation.pdf

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

NA

TABLE 7
SOIL SAMPLING SUMMARY OF NJDEP Exceedances
FTMM08 Boring 10
FORT MONMOUTH, NEW JERSEY

Analyte	Maximum Detected Concentration	Location of Maximum Concentration		Number of Samples	Number of Detections	NJ Residential Direct Contact SRS		NJ Non-Residential Direct Contact SRS		NJ Impact to GW Soil Screening Level		Weston 1995 Background (Main Post)		
			Sample Date			Action Level	Num of Detects Above Standard-1	Action Level	Num of Detects Above Standard-2	Action Level	Num of Detects Above Standard-3	Action Level	Num of Detects Above Standard-4	
Volatile Organic Compounds (mg/kg) (None Above Standard)														
TIC VOCs (µg/kg) (None Above Standard)														
Semivolatile Organic Compounds (mg/kg) (None Above Standard)														
TIC SVOCs (mg/kg) (None Above Standard)														
Extractable/Volatile Petroleum Hydrocarbons (mg/kg) (None Above Standard)														
PCBs (mg/kg) (None Above Standard)	0.45		FTMM08-B10-SB-04	11/20/2017	36	6	0.2	3	NLE	NLE	NLE	NLE	-	-
Inorganics (mg/kg)														
Aluminum	8,230		FTMM08-B10-SB-04	11/20/2017	5	5	78,000	0	NLE	NLE	6,000	3	15,200	0
Beryllium	1.4		FTMM08-B10-SB-04	11/20/2017	5	5	16	0	140	0	0.7	4	2	0
Cadmium	0.98		FTMM08-B10-SB-02	11/20/2017	5	2	78	0	78	0	2	0	ND	2
Cobalt	3.7		FTMM08-B10-SB-04	11/20/2017	5	4	1,600	0	590	0	90	0	2.5	1
Mercury	0.053	J	FTMM08-B10-SB-08	5/17/2018	5	1	23	0	65	0	0.1	0	ND	1
Molybdenum	0.57	J	FTMM08-B10-SB-04	11/20/2017	4	1	NLE	NLE	NLE	NLE	NLE	NLE	ND	1
Sodium	936		FTMM08-B10-SB-01	11/20/2017	5	5	NLE	NLE	NLE	NLE	NLE	NLE	51.6	4
Strontium	8		FTMM08-B10-SB-04	11/20/2017	4	4	NLE	NLE	NLE	NLE	NLE	NLE	ND	4
Tin	1.2	J	FTMM08-B10-SB-02	11/20/2017	4	1	NLE	NLE	NLE	NLE	NLE	NLE	ND	1
Titanium	64.4		FTMM08-B10-SB-04	11/20/2017	4	4	NLE	NLE	NLE	NLE	NLE	NLE	ND	4
Zinc	191		FTMM08-B10-SB-02	11/20/2017	5	5	23,000	0	110,000	0	930	0	81.4	1

1) Summary Statistics presents only results that were above (at least one) standard and were obtained from Summary Statistics Sheet.

TABLE 8
SOIL SAMPLING RESULTS - COMPARISON TO USEPA Regional Screening Levels FTMM-08 Boring-10
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)	Weston 1995 Background (Main Post)	PAR-49-SB-08	FTMM08-B10-SB-01				FTMM08-B10-SB-02	
Sample ID					PAR-49-SS-SB-08-0.5-1	FTMM-08-B10-SB-01 1.5-2	FTMM-08-B10-SB-01 2.5-3	FTMM-08-B10-SB-01 2.5-3	FTMM-08-B10-SB-01 7-7.5	FTMM-08-B10-SB-02 3-3.5	FTMM-08-B10-SB-02 6-6.5
Sample Date					3/30/2016	11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017
Volatile Organic Compounds (mg/kg)											
1,1,1,2-Tetrachloroethane	2	8.8	0.00022	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,1,1-Trichloroethane	810	3,600	0.28	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,1,2,2-Tetrachloroethane	0.6	2.7	0.00003	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,1,2-Trichloroethane	0.15	0.63	0.000013	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,1-Dichloroethane	3.6	16	0.00078	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,1-Dichloroethene	23	100	0.01	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,1-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,2,3-Trichlorobenzene	6.3	93	0.0021	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,2,3-Trichloropropane	0.0051	0.11	0.00000032	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,2,4-Trichlorobenzene	5.8	26	0.0012	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,2,4-Trimethylbenzene	30	180	0.0081	-	NA	NA	NA	0.011 J	NA	NA	0.003 J
1,2-Dibromo-3-chloropropane	0.0053	0.064	0.00000014	-	NA	NA	NA	< 0.0022 UJ	NA	NA	< 0.0022 UJ
1,2-Dibromoethane	0.036	0.16	0.00000021	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,2-Dichlorobenzene	180	930	0.03	-	NA	NA	NA	0.0024 J	NA	NA	< 0.0009 UJ
1,2-Dichloroethane	0.46	2	0.000048	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,2-Dichloropropane	0.28	1.2	0.000047	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,3,5-Trimethylbenzene	27	150	0.0087	-	NA	NA	NA	0.0017 J	NA	NA	< 0.0009 UJ
1,3-Dichlorobenzene	NLE	NLE	NLE	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,3-Dichloropropane	160	2,300	0.013	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
1,4-Dichlorobenzene	2.6	11	0.00046	-	NA	NA	NA	0.001 J	NA	NA	< 0.0009 UJ
2,2-Dichloropropane	NLE	NLE	NLE	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
2-Chlorotoluene	160	2,300	0.023	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Acetone	6,100	67,000	0.29	-	NA	NA	NA	0.24 J	NA	NA	0.16 J
Benzene	1.2	5.1	0.00023	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Bromobenzene	29	180	0.0042	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Bromochloromethane	15	63	0.0021	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Bromodichloromethane	0.29	1.3	0.000036	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Bromoform	19	86	0.00087	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Carbon tetrachloride	0.65	2.9	0.00018	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Chlorobenzene	28	130	0.0053	-	NA	NA	NA	0.0033 J	NA	NA	< 0.0009 UJ
Chlorodibromomethane	8.3	39	0.00023	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Chloroethane	1,400	5,700	0.59	-	NA	NA	NA	< 0.0022 UJ	NA	NA	< 0.0022 UJ
Chloroform	0.32	1.4	0.000061	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Cis-1,2-Dichloroethene	16	230	0.0011	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Cis-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Cymene	NLE	NLE	NLE	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Dichlorodifluoromethane	8.7	37	0.03	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Ethyl benzene	5.8	25	0.0017	-	NA	NA	NA	< 0.0009 UJ	NA	NA	0.0008 J
Hexachlorobutadiene	1.2	5.3	0.00027	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Isopropylbenzene	190	990	0.074	-	NA	NA	NA	0.0034 J	NA	NA	0.0057 J
Meta/Para Xylene	55	240	0.019	-	NA	NA	NA	0.0008 J	NA	NA	< 0.0018 UJ
Methyl bromide	0.68	3	0.00019	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Methyl butyl ketone	20	130	0.00088	-	NA	NA	NA	< 0.0044 UJ	NA	NA	< 0.0044 UJ
Methyl chloride	11	46	0.0049	-	NA	NA	NA	0.0007 J	NA	NA	< 0.0009 UJ
Methyl ethyl ketone	2,700	19,000	0.12	-	NA	NA	NA	0.034 J	NA	NA	0.034 J
Methyl isobutyl ketone	3,300	14,000	0.14	-	NA	NA	NA	< 0.0044 UJ	NA	NA	< 0.0044 UJ
Methyl Tertbutyl Ether	47	210	0.0032	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Methylene chloride	35	320	0.0027	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	0.0032 J	NA	NA	0.005 J
n-Butylbenzene	390	5,800	0.32	-	NA	NA	NA	< 0.0009 UJ	NA	NA	0.021 J
Ortho Xylene	65	280	0.019	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
p-Chlorotoluene	160	2,300	0.024	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Propylbenzene	380	2,400	0.12	-	NA	NA	NA	0.0041 J	NA	NA	0.015 J
sec-Butylbenzene	780	12,000	0.59	-	NA	NA	NA	0.072 J	NA	NA	0.035 J
Styrene	600	3,500	0.13	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Tert Butyl Alcohol	NLE	NLE	NLE	-	NA	NA	NA	0.017 J	NA	NA	0.0078 J
tert-Butylbenzene	780	12,000	0.16	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Tetrachloroethene	8.1	39	0.0018	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Toluene	490	4,700	0.076	-	NA	NA	NA	0.0035 J	NA	NA	< 0.0009 UJ
Trans-1,2-Dichloroethene	160	2,300	0.011	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Trans-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Trichloroethene	0.41	1.9	0.0001	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
Vinyl chloride	0.059	1.7	0.0000065	-	NA	NA	NA	< 0.0009 UJ	NA	NA	< 0.0009 UJ
TIC VOCs (µg/kg)											
Total TIC VOCs					NA	NA	NA	437.1 JN	NA	NA	906.9 JN
Semivolatile Organic Compounds (mg/kg)											
1,2,4-Trichlorobenzene	5.8	26	0.0012	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
1,2-Dichlorobenzene	180	930	0.03	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
1,2-Diphenylhydrazine	0.68	2.9	0.00025	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
1,3-Dichlorobenzene	NLE	NLE	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
1,4-Dichlorobenzene	2.6	11	0.00046	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
2,4,5-Trichlorophenol	630	8,200	0.4	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
2,4,6-Trichlorophenol	6.3	82	0.0012	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
2,4-Dichlorophenol	19	250	0.0023	-	NA	NA	NA	< 0.082	NA	NA	< 0.076
2,4-Dimethylphenol	130	1,600	0.042	-	NA	NA	NA	0.14 J	NA	NA	< 0.15
2,4-Dinitrophenol	13	160	0.0044	-	NA	NA	NA	< 0.25	NA	NA	< 0.23
2,4-Dinitrotoluene	1.7	7.4	0.00032	-	NA	NA	NA	< 0.082	NA	NA	< 0.076

TABLE 8
SOIL SAMPLING RESULTS - COMPARISON TO USEPA Regional Screening Levels FTMM-08 Boring-10
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)	Weston 1995 Background (Main Post)	PAR-49-SB-08	FTMM08-B10-SB-01					FTMM08-B10-SB-02	
Sample ID					PAR-49-SS-SB-08-0.5-1	FTMM-08-B10-SB-01 1.5-2	FTMM-08-B10-SB-01 2.5-3	FTMM-08-B10-SB-101 2.5-3	FTMM-08-B10-SB-01 7-7.5	FTMM-08-B10-SB-02 3-3.5	FTMM-08-B10-SB-02 6-6.5	
Sample Date					3/30/2016	11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017	
2,6-Dinitrotoluene	0.36	1.5	0.000067	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
2-Chloronaphthalene	480	6,000	0.39	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
2-Chlorophenol	39	580	0.0089	-	NA	NA	NA	< 0.25	NA	NA	< 0.23	
2-Methylnaphthalene	24	300	0.019	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
2-Methylphenol	320	4,100	0.075	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
2-Nitroaniline	63	800	0.008	-	NA	NA	NA	< 0.25	NA	NA	< 0.23	
2-Nitrophenol	NLE	NLE	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
3,3'-Dichlorobenzidine	1.2	5.1	0.00082	-	NA	NA	NA	< 0.25	NA	NA	< 0.23	
3-Nitroaniline	NLE	NLE	NLE	-	NA	NA	NA	< 0.25	NA	NA	< 0.23	
4,6-Dinitro-2-methylphenol	0.51	6.6	0.00026	-	NA	NA	NA	< 0.25	NA	NA	< 0.23	
4-Bromophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
4-Chloro-3-methylphenol	630	8,200	0.17	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
4-Chloroaniline	2.7	11	0.00016	-	NA	NA	NA	< 0.25	NA	NA	< 0.23	
4-Chlorophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
4-Nitroaniline	25	110	0.0016	-	NA	NA	NA	< 0.25	NA	NA	< 0.23	
4-Nitrophenol	NLE	NLE	NLE	-	NA	NA	NA	< 0.16	NA	NA	< 0.15	
Acenaphthene	360	4,500	0.55	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Anthracene	1,800	23,000	5.8	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Benzo(a)anthracene	1.1	21	0.011	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Benzo(a)pyrene	0.11	2.1	0.029	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Benzo(b)fluoranthene	1.1	21	0.3	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Benzo(k)fluoranthene	11	210	2.9	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Benzoic Acid	25,000	330,000	1.5	-	NA	NA	NA	0.24 J	NA	NA	< 0.45	
Benzyl alcohol	630	8,200	0.048	-	NA	NA	NA	< 0.25	NA	NA	< 0.23	
Bis(2-Chloroethoxy)methane	19	250	0.0013	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Bis(2-Chloroethyl)ether	0.23	1	0.0000036	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Bis(2-Chloroisopropyl)ether	310	4,700	0.026	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	NA	NA	NA	< 0.25	NA	NA	< 0.23	
Butyl benzyl phthalate	290	1,200	0.24	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Carbazole	NLE	NLE	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Chrysene	110	2,100	9	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Cresol	NLE	NLE	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Dibenzofuran	7.3	100	0.015	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Diethyl phthalate	5,100	66,000	0.61	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Dimethyl phthalate	NLE	NLE	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Di-n-butylphthalate	630	8,200	0.23	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Di-n-octylphthalate	63	820	5.7	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Fluoranthene	240	3,000	8.9	-	NA	NA	NA	0.22	NA	NA	0.033 J	
Fluorene	240	3,000	0.54	-	NA	NA	NA	0.15	NA	NA	< 0.076	
Hexachlorobenzene	0.21	0.96	0.00012	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Hexachlorobutadiene	1.2	5.3	0.00027	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Hexachlorocyclopentadiene	0.18	0.75	0.00013	-	NA	NA	NA	< 0.25	NA	NA	< 0.23	
Hexachloroethane	1.8	8	0.0002	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Isophorone	570	2,400	0.026	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	0.017 J	NA	NA	< 0.076	
Nitrobenzene	5.1	22	0.000092	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
N-Nitrosodimethylamine	0.002	0.034	0.000000027	-	NA	NA	NA	< 0.16	NA	NA	< 0.15	
N-Nitroso-di-n-propylamine	0.078	0.33	0.0000081	-	NA	NA	NA	< 0.25	NA	NA	< 0.23	
N-Nitrosodiphenylamine	110	470	0.067	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Pentachlorophenol	1	4	0.000057	-	NA	NA	NA	< 0.25	NA	NA	< 0.23	
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Phenol	1,900	25,000	0.33	-	NA	NA	NA	< 0.082	NA	NA	< 0.076	
Pyrene	180	2,300	1.3	-	NA	NA	NA	0.16	NA	NA	0.072 J	
TIC SVOCs (mg/kg)												
Total TIC SVOCs	NLE	NLE	NLE	-	NA	NA	NA	30.45 JN	NA	NA	14.22 JN	
Extractable/Volatile Petroleum Hydrocarbons (mg/kg)												
C10-C12 Aromatics	NLE	NLE	NLE	-	NA	< 1.2 UJ	< 1.2 UJ	< 1.2	< 1.3 UJ	< 1.1 UJ	< 1.2	
C12-C16 Aliphatics	NLE	NLE	NLE	-	NA	15.3 J-	102 J	49.6 J	< 1.3 UJ	< 1.1 UJ	21.1	
C12-C16 Aromatics	NLE	NLE	NLE	-	NA	0.57 J	0.73 J	1.1 J	< 1.3 UJ	< 1.1 UJ	1.6	
C16-C21 Aliphatics	NLE	NLE	NLE	-	NA	265	2,220	1,490	24.1 J-	< 1.1 UJ	910	
C16-C21 Aromatics	NLE	NLE	NLE	-	NA	78.9 J-	119 J	377 J	7.5 J-	0.34 J	280	
C21-C36 Aromatics	NLE	NLE	NLE	-	NA	553	372 J	3,210 J	40.6 J-	1.2 J-	3,070	
C21-C40 Aliphatics	NLE	NLE	NLE	-	NA	1,700	8,350	7,200	87.8 J-	2.5 J-	7,290	
C9-C12 Aliphatics	NLE	NLE	NLE	-	NA	< 1.2 UJ	11.1 J	2.3 J	< 1.3 UJ	< 1.1 UJ	17.9	
Total Aliphatics	NLE	NLE	NLE	-	NA	1,980	10,700	8,730	112 J	2.7 J	8,240	
Total Aromatics	NLE	NLE	NLE	-	NA	633	492 J	3,590 J	48.3 J-	1.7 J	3,350	
Total EPH	SS	SS	SS	-	NA	2,610	11,200	12,300	161 J-	4.4 J	11,600	
PCBs (mg/kg)												
Aroclor-1016	0.41	5.1	0.013	-	< 0.035	< 0.031	< 0.029	< 0.03	< 0.032	< 0.027	< 0.028	
Aroclor-1221	0.2	0.83	0.00008	-	< 0.072	< 0.031	< 0.029	< 0.03	< 0.032	< 0.027	< 0.028	
Aroclor-1232	0.17	0.72	0.00008	-	< 0.035	< 0.031	< 0.029	< 0.03	< 0.032	< 0.027	< 0.028	
Aroclor-1242	0.23	0.95	0.0012	-	< 0.035	< 0.031	< 0.029	< 0.03	< 0.032	< 0.027	< 0.028	
Aroclor-1248	0.23	0.95	0.0012	-	< 0.035	< 0.031	< 0.029	< 0.03	< 0.032	< 0.027	0.04	
Aroclor-1254	0.12	0.97	0.002	-	< 0.035	0.062	< 0.029	< 0.03	< 0.032	< 0.027	0.048 JN	
Aroclor-1260	0.24	0.99	0.0055	-	0.03 J	< 0.031	< 0.029	< 0.03	< 0.032	< 0.027	0.039 J	

TABLE 8
SOIL SAMPLING RESULTS - COMPARISON TO USEPA Regional Screening Levels FTMM-08 Boring-10
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)	Weston 1995 Background (Main Post)	PAR-49-SB-08	FTMM08-B10-SB-01				FTMM08-B10-SB-02	
Sample ID					PAR-49-SS-SB-08-0.5-1	FTMM-08-B10-SB-01 1.5-2	FTMM-08-B10-SB-01 2.5-3	FTMM-08-B10-SB-101 2.5-3	FTMM-08-B10-SB-01 7-7.5	FTMM-08-B10-SB-02 3-3.5	FTMM-08-B10-SB-02 6-6.5
Sample Date					3/30/2016	11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017	11/20/2017
Aroclor-1268	NLE	NLE	NLE	-	< 0.035	< 0.031	< 0.029	< 0.03	< 0.032	< 0.027	< 0.028
Total PCBs	NLE	NLE	NLE	-	NA	0.061	< 0.029	< 0.03	< 0.032	< 0.027	0.13
Inorganics (mg/kg)											
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	6,070	NA	NA	4,920
Antimony	3.1	47	0.035	ND	NA	NA	NA	< 0.79	NA	NA	< 0.7
Arsenic	0.68	3	0.0015	22.9	NA	NA	NA	6.4	NA	NA	6.9
Barium	1,500	22,000	16	32.3	NA	NA	NA	16.7	NA	NA	15.9
Beryllium	16	230	1.9	2	NA	NA	NA	1.1	NA	NA	0.9
Cadmium	7.1	98	0.069	ND	NA	NA	NA	0.26 J	NA	NA	0.98
Calcium	NLE	NLE	NLE	921	NA	NA	NA	485	NA	NA	216
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	82.4	NA	NA	70.3
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	2.4 J	NA	NA	1.8 J
Copper	310	4,700	2.8	8	NA	NA	NA	5	NA	NA	2.9
Iron	5,500	82,000	35	55,800	NA	NA	NA	29,500	NA	NA	28,600
Lead	400	800	14	19.5	NA	NA	NA	11.3	NA	NA	7.1
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	3,560	NA	NA	2,320
Manganese	180	2,600	2.8	90.7	NA	NA	NA	8.6	NA	NA	18.1
Mercury	1.1	4.6	0.0033	ND	NA	NA	NA	< 0.079	NA	NA	< 0.07
Molybdenum	39	580	0.2	ND	NA	NA	NA	< 0.79	NA	NA	< 0.7
Nickel	150	2,200	2.6	8.4	NA	NA	NA	6.8	NA	NA	5.1
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	10,100	NA	NA	6,910
Selenium	39	580	0.052	1.9	NA	NA	NA	< 2	NA	NA	< 1.8
Silver	39	580	0.08	1.1	NA	NA	NA	< 0.79	NA	NA	< 0.7
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	936	NA	NA	53.3 J
Strontium	4,700	70,000	42	ND	NA	NA	NA	6.5	NA	NA	3.2
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	< 0.41	NA	NA	< 0.36
Tin	4,700	70,000	300	ND	NA	NA	NA	< 2	NA	NA	1.2 J
Titanium	NLE	NLE	NLE	ND	NA	NA	NA	25.2	NA	NA	37
Vanadium	39	580	8.6	94.1	NA	NA	NA	22.8	NA	NA	31
Zinc	2,300	35,000	37	81.4	NA	NA	NA	70.4	NA	NA	191

TABLE 8
SOIL SAMPLING RESULTS - COMPARISON TO USEPA Regional Screening Levels FTMM-08 Boring-10
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)	Weston 1995 Background (Main Post)	FTMM08-B10-SB-02	FTMM08-B10-SB-04				FTMM08-B10-SB-05	
Sample ID					FTMM-08-B10-SB-02 10-10.5	FTMM-08-B10-SB-04 1-1.5	FTMM-08-B10-SB-04 2.5-3	FTMM-08-B10-SB-04 6.5-7		FTMM-08-B10-SB-05-2.5-3.0	FTMM-08-B10-SB-105-2.5-3.0
Sample Date					11/20/2017	11/20/2017	11/20/2017	11/20/2017		5/16/2018	5/16/2018
Volatile Organic Compounds (mg/kg)											
1,1,1,2-Tetrachloroethane	2	8.8	0.00022	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
1,1,1-Trichloroethane	810	3,600	0.28	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
1,1,2,2-Tetrachloroethane	0.6	2.7	0.00003	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
1,1,2-Trichloroethane	0.15	0.63	0.000013	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
1,1-Dichloroethane	3.6	16	0.00078	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
1,1-Dichloroethene	23	100	0.01	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
1,1-Dichloropropene	NLE	NLE	NLE	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
1,2,3-Trichlorobenzene	6.3	93	0.0021	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
1,2,3-Trichloropropane	0.0051	0.11	0.00000032	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
1,2,4-Trichlorobenzene	5.8	26	0.0012	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
1,2,4-Trimethylbenzene	30	180	0.0081	-	NA	NA	7.1 J	0.053 J		NA	NA
1,2-Dibromo-3-chloropropane	0.0053	0.064	0.00000014	-	NA	NA	< 0.0023 UJ	< 0.0018 UJ		NA	NA
1,2-Dibromoethane	0.036	0.16	0.0000021	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
1,2-Dichlorobenzene	180	930	0.03	-	NA	NA	0.057 J	0.0006 J		NA	NA
1,2-Dichloroethane	0.46	2	0.000048	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
1,2-Dichloropropane	0.28	1.2	0.000047	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
1,3,5-Trimethylbenzene	27	150	0.0087	-	NA	NA	1.1 J	< 0.0007 UJ		NA	NA
1,3-Dichlorobenzene	NLE	NLE	NLE	-	NA	NA	0.0023 J	< 0.0007 UJ		NA	NA
1,3-Dichloropropane	160	2,300	0.013	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
1,4-Dichlorobenzene	2.6	11	0.00046	-	NA	NA	0.0093 J	< 0.0007 UJ		NA	NA
2,2-Dichloropropane	NLE	NLE	NLE	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
2-Chlorotoluene	160	2,300	0.023	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Acetone	6,100	67,000	0.29	-	NA	NA	< 0.0046 UJ	0.077 J		NA	NA
Benzene	1.2	5.1	0.00023	-	NA	NA	< 0.0009 UJ	0.0004 J		NA	NA
Bromobenzene	29	180	0.0042	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Bromochloromethane	15	63	0.0021	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Bromodichloromethane	0.29	1.3	0.000036	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Bromoform	19	86	0.00087	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Carbon tetrachloride	0.65	2.9	0.00018	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Chlorobenzene	28	130	0.0053	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Chlorodibromomethane	8.3	39	0.00023	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Chloroethane	1,400	5,700	0.59	-	NA	NA	< 0.0023 UJ	< 0.0018 UJ		NA	NA
Chloroform	0.32	1.4	0.000061	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Cis-1,2-Dichloroethene	16	230	0.0011	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Cis-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Cymene	NLE	NLE	NLE	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Dichlorodifluoromethane	8.7	37	0.03	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Ethyl benzene	5.8	25	0.0017	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Hexachlorobutadiene	1.2	5.3	0.00027	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Isopropylbenzene	190	990	0.074	-	NA	NA	0.5 J	0.0048 J		NA	NA
Meta/Para Xylene	55	240	0.019	-	NA	NA	0.015 J	< 0.0014 UJ		NA	NA
Methyl bromide	0.68	3	0.00019	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Methyl butyl ketone	20	130	0.00088	-	NA	NA	< 0.0046 UJ	< 0.0036 UJ		NA	NA
Methyl chloride	11	46	0.0049	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Methyl ethyl ketone	2,700	19,000	0.12	-	NA	NA	0.12 J	0.011 J		NA	NA
Methyl isobutyl ketone	3,300	14,000	0.14	-	NA	NA	< 0.0046 UJ	< 0.0036 UJ		NA	NA
Methyl Tertbutyl Ether	47	210	0.0032	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Methylene chloride	35	320	0.0027	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Naphthalene	3.8	17	0.00054	-	NA	NA	0.007 J	0.0005 J		NA	NA
n-Butylbenzene	390	5,800	0.32	-	NA	NA	NA	0.004 J		NA	NA
Ortho Xylene	65	280	0.019	-	NA	NA	0.0072 J	< 0.0007 UJ		NA	NA
p-Chlorotoluene	160	2,300	0.024	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Propylbenzene	380	2,400	0.12	-	NA	NA	1.2 J	0.01 J		NA	NA
sec-Butylbenzene	780	12,000	0.59	-	NA	NA	0.91 J	0.011 J		NA	NA
Styrene	600	3,500	0.13	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Tert Butyl Alcohol	NLE	NLE	NLE	-	NA	NA	0.013 J	< 0.0036 UJ		NA	NA
tert-Butylbenzene	780	12,000	0.16	-	NA	NA	< 0.0009 UJ	0.0006 J		NA	NA
Tetrachloroethene	8.1	39	0.0018	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Toluene	490	4,700	0.076	-	NA	NA	0.0006 J	< 0.0007 UJ		NA	NA
Trans-1,2-Dichloroethene	160	2,300	0.011	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Trans-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Trichloroethene	0.41	1.9	0.0001	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
Vinyl chloride	0.059	1.7	0.0000065	-	NA	NA	< 0.0009 UJ	< 0.0007 UJ		NA	NA
TIC VOCs (µg/kg)											
Total TIC VOCs					NA	NA	766.9 JN	254.2 JN		NA	NA
Semivolatile Organic Compounds (mg/kg)											
1,2,4-Trichlorobenzene	5.8	26	0.0012	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
1,2-Dichlorobenzene	180	930	0.03	-	NA	NA	0.053 J	< 0.11 UJ		NA	NA
1,2-Diphenylhydrazine	0.68	2.9	0.00025	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
1,3-Dichlorobenzene	NLE	NLE	NLE	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
1,4-Dichlorobenzene	2.6	11	0.00046	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
2,4,5-Trichlorophenol	630	8,200	0.4	-	NA	NA	< 0.076	< 0.11		NA	NA
2,4,6-Trichlorophenol	6.3	82	0.0012	-	NA	NA	< 0.076	< 0.11		NA	NA
2,4-Dichlorophenol	19	250	0.0023	-	NA	NA	< 0.076	< 0.11		NA	NA
2,4-Dimethylphenol	130	1,600	0.042	-	NA	NA	< 0.15	< 0.22		NA	NA
2,4-Dinitrophenol	13	160	0.0044	-	NA	NA	< 0.23	< 0.33		NA	NA
2,4-Dinitrotoluene	1.7	7.4	0.00032	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA

TABLE 8
SOIL SAMPLING RESULTS - COMPARISON TO USEPA Regional Screening Levels FTMM-08 Boring-10
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)	Weston 1995 Background (Main Post)	FTMM08-B10-SB-02	FTMM08-B10-SB-04				FTMM08-B10-SB-05	
Sample ID					FTMM-08-B10-SB-02 10-10.5	FTMM-08-B10-SB-04 1-1.5	FTMM-08-B10-SB-04 2.5-3	FTMM-08-B10-SB-04 6.5-7		FTMM-08-B10-SB-05-2.5-3.0	FTMM-08-B10-SB-105-2.5-3.0
Sample Date					11/20/2017	11/20/2017	11/20/2017	11/20/2017		5/16/2018	5/16/2018
2,6-Dinitrotoluene	0.36	1.5	0.000067	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
2-Chloronaphthalene	480	6,000	0.39	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
2-Chlorophenol	39	580	0.0089	-	NA	NA	< 0.23	NA		NA	NA
2-Methylnaphthalene	24	300	0.019	-	NA	NA	1	< 0.11 UJ		NA	NA
2-Methylphenol	320	4,100	0.075	-	NA	NA	< 0.076	< 0.11		NA	NA
2-Nitroaniline	63	800	0.008	-	NA	NA	< 0.23	< 0.33 UJ		NA	NA
2-Nitrophenol	NLE	NLE	NLE	-	NA	NA	< 0.076	< 0.11		NA	NA
3,3'-Dichlorobenzidine	1.2	5.1	0.00082	-	NA	NA	< 0.23	< 0.33 UJ		NA	NA
3-Nitroaniline	NLE	NLE	NLE	-	NA	NA	< 0.23	< 0.33 UJ		NA	NA
4,6-Dinitro-2-methylphenol	0.51	6.6	0.00026	-	NA	NA	< 0.23	< 0.33		NA	NA
4-Bromophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
4-Chloro-3-methylphenol	630	8,200	0.17	-	NA	NA	< 0.076	< 0.11		NA	NA
4-Chloroaniline	2.7	11	0.00016	-	NA	NA	< 0.23	< 0.33 UJ		NA	NA
4-Chlorophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
4-Nitroaniline	25	110	0.0016	-	NA	NA	< 0.23	< 0.33 UJ		NA	NA
4-Nitrophenol	NLE	NLE	NLE	-	NA	NA	< 0.15	< 0.22		NA	NA
Acenaphthene	360	4,500	0.55	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Anthracene	1,800	23,000	5.8	-	NA	NA	0.057 J	< 0.11 UJ		NA	NA
Benzo(a)anthracene	1.1	21	0.011	-	NA	NA	0.068 J	< 0.11 UJ		NA	NA
Benzo(a)pyrene	0.11	2.1	0.029	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Benzo(b)fluoranthene	1.1	21	0.3	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Benzo(k)fluoranthene	11	210	2.9	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Benzoic Acid	25,000	330,000	1.5	-	NA	NA	< 0.45	< 0.65		NA	NA
Benzyl alcohol	630	8,200	0.048	-	NA	NA	< 0.23	< 0.33 UJ		NA	NA
Bis(2-Chloroethoxy)methane	19	250	0.0013	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Bis(2-Chloroethyl)ether	0.23	1	0.0000036	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Bis(2-Chloroisopropyl)ether	310	4,700	0.026	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	NA	NA	< 0.23	< 0.33 UJ		NA	NA
Butyl benzyl phthalate	290	1,200	0.24	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Carbazole	NLE	NLE	NLE	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Chrysene	110	2,100	9	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Cresol	NLE	NLE	NLE	-	NA	NA	< 0.076	< 0.11		NA	NA
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Dibenzofuran	7.3	100	0.015	-	NA	NA	0.051 J	< 0.11 UJ		NA	NA
Diethyl phthalate	5,100	66,000	0.61	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Dimethyl phthalate	NLE	NLE	NLE	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Di-n-butylphthalate	630	8,200	0.23	-	NA	NA	0.17 J	< 0.11 UJ		NA	NA
Di-n-octylphthalate	63	820	5.7	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Fluoranthene	240	3,000	8.9	-	NA	NA	0.21	< 0.11 UJ		NA	NA
Fluorene	240	3,000	0.54	-	NA	NA	0.13	< 0.11 UJ		NA	NA
Hexachlorobenzene	0.21	0.96	0.00012	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Hexachlorobutadiene	1.2	5.3	0.00027	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Hexachlorocyclopentadiene	0.18	0.75	0.00013	-	NA	NA	< 0.23	< 0.33 UJ		NA	NA
Hexachloroethane	1.8	8	0.0002	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Isophorone	570	2,400	0.026	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Naphthalene	3.8	17	0.00054	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Nitrobenzene	5.1	22	0.000092	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
N-Nitrosodimethylamine	0.002	0.034	0.000000027	-	NA	NA	< 0.15	< 0.22 UJ		NA	NA
N-Nitroso-di-n-propylamine	0.078	0.33	0.00000081	-	NA	NA	< 0.23	< 0.33 UJ		NA	NA
N-Nitrosodiphenylamine	110	470	0.067	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
Pentachlorophenol	1	4	0.000057	-	NA	NA	< 0.23	< 0.33		NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	0.51	< 0.11 UJ		NA	NA
Phenol	1,900	25,000	0.33	-	NA	NA	< 0.076	< 0.11		NA	NA
Pyrene	180	2,300	1.3	-	NA	NA	< 0.076	< 0.11 UJ		NA	NA
TIC SVOCs (mg/kg)											
Total TIC SVOCs	NLE	NLE	NLE	-	NA	NA	27.95 JN	3.55 JN		NA	NA
Extractable/Volatile Petroleum Hydrocarbons (mg/kg)											
C10-C12 Aromatics	NLE	NLE	NLE	-	< 1.1 UJ	NA	2.2 J	< 1.3 UJ		< 1.2	< 1.2
C12-C16 Aliphatics	NLE	NLE	NLE	-	< 1.1 UJ	NA	114 J	< 1.2 UJ		< 1.2 UJ	< 1.2 UJ
C12-C16 Aromatics	NLE	NLE	NLE	-	< 1.1 UJ	NA	6.8 J	1.5 J		< 1.2	< 1.2
C16-C21 Aliphatics	NLE	NLE	NLE	-	< 1.1 UJ	NA	1,320 J	164 J		< 1.2 UJ	< 1.2 UJ
C16-C21 Aromatics	NLE	NLE	NLE	-	0.28 J	NA	406 J	33.5 J		0.65 J	0.47 J
C21-C36 Aromatics	NLE	NLE	NLE	-	1.1 J	NA	1,420 J	109 J		0.58 J	0.48 J
C21-C40 Aliphatics	NLE	NLE	NLE	-	3.9 J	NA	7,010 J	536 J		< 1.2 UJ	< 1.2 UJ
C9-C12 Aliphatics	NLE	NLE	NLE	-	< 1.1 UJ	NA	4.7 J	0.25 J		< 1.2 UJ	< 1.2 UJ
Total Aliphatics	NLE	NLE	NLE	-	4.2 J	NA	8,450 J	711 J		< 4.6 UJ	< 4.8 UJ
Total Aromatics	NLE	NLE	NLE	-	1.4 J	NA	1,840 J	145 J		1.6 J	1.3 J
Total EPH	SS	SS	SS	-	5.6 J	NA	10,300 J	855 J		< 9.3	< 9.7
PCBs (mg/kg)											
Aroclor-1016	0.41	5.1	0.013	-	< 0.03	< 0.028	< 0.03	< 0.032		< 0.029	< 0.03
Aroclor-1221	0.2	0.83	0.00008	-	< 0.03	< 0.028	< 0.03	< 0.032		< 0.029	< 0.03
Aroclor-1232	0.17	0.72	0.00008	-	< 0.03	< 0.028	< 0.03	< 0.032		< 0.029	< 0.03
Aroclor-1242	0.23	0.95	0.0012	-	< 0.03	< 0.028	< 0.03	< 0.032		< 0.029	< 0.03
Aroclor-1248	0.23	0.95	0.0012	-	< 0.03	< 0.028	< 0.03	< 0.032		< 0.029	< 0.03
Aroclor-1254	0.12	0.97	0.002	-	< 0.03	0.23 J	0.075	0.023 J		< 0.029	< 0.03
Aroclor-1260	0.24	0.99	0.0055	-	< 0.03	0.22 J	0.16 J	< 0.032		< 0.029	< 0.03

TABLE 8
SOIL SAMPLING RESULTS - COMPARISON TO USEPA Regional Screening Levels FTMM-08 Boring-10
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)	Weston 1995 Background (Main Post)	FTMM08-B10-SB-02	FTMM08-B10-SB-04				FTMM08-B10-SB-05	
Sample ID					FTMM-08-B10-SB-02 10-10.5	FTMM-08-B10-SB-04 1-1.5	FTMM-08-B10-SB-04 2.5-3	FTMM-08-B10-SB-04 6.5-7		FTMM-08-B10-SB-05 2.5-3.0	FTMM-08-B10-SB-105-2.5-3.0
Sample Date					11/20/2017	11/20/2017	11/20/2017	11/20/2017		5/16/2018	5/16/2018
Aroclor-1268	NLE	NLE	NLE	-	< 0.03	< 0.028	< 0.03	< 0.032		< 0.029	< 0.03
Total PCBs	NLE	NLE	NLE	-	< 0.03	0.45	0.24	0.023 J		< 0.26	< 0.27
Inorganics (mg/kg)											
Aluminum	7,700	110,000	3,000	15,200	NA	NA	6,600	8,230		NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	< 0.76	< 0.85		NA	NA
Arsenic	0.68	3	0.0015	22.9	NA	NA	7.8	16.6		NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	16	20.5		NA	NA
Beryllium	16	230	1.9	2	NA	NA	1.2	1.4		NA	NA
Cadmium	7.1	98	0.069	ND	NA	NA	< 0.39	< 0.44		NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	513	717		NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	97.3	107		NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	1.9 J	3.7		NA	NA
Copper	310	4,700	2.8	8	NA	NA	2.5 J	1.9 J		NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	36,900	39,000		NA	NA
Lead	400	800	14	19.5	NA	NA	9.2	4.8		NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	3,310	4,400		NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	12.7	12.3		NA	NA
Mercury	1.1	4.6	0.0033	ND	NA	NA	< 0.076	< 0.085		NA	NA
Molybdenum	39	580	0.2	ND	NA	NA	< 0.76	0.57 J		NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	6.3	8.4		NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	9,920	12,000		NA	NA
Selenium	39	580	0.052	1.9	NA	NA	1.1 J	1.1 J		NA	NA
Silver	39	580	0.08	1.1	NA	NA	< 0.76	< 0.85		NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	131	137		NA	NA
Strontium	4,700	70,000	42	ND	NA	NA	5.7	8		NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	< 0.39	< 0.44		NA	NA
Tin	4,700	70,000	300	ND	NA	NA	< 1.9	< 2.1		NA	NA
Titanium	NLE	NLE	NLE	ND	NA	NA	41.7	64.4		NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	36.8	41.9		NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	45.8	62		NA	NA

TABLE 8
SOIL SAMPLING RESULTS - COMPARISON TO USEPA Regional Screening Levels FTMM-08 Boring-10
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)	Weston 1995 Background (Main Post)	FTMM08-B10-SB-05		FTMM08-B10-SB-06				FTMM08-B10-SB-07	
	Sample ID	Sample Date			FTMM-08-B10-SB-05-5.5-6.0	FTMM-08-B10-SB-05-9.0-9.5	FTMM-08-B10-SB-06-2.5-3.0	FTMM-08-B10-SB-06-6.0-6.5	FTMM-08-B10-SB-06-9.0-9.5	FTMM-08-B10-SB-07-2.5-3.0		
			5/16/2018		5/16/2018	5/17/2018	5/17/2018	5/17/2018	5/16/2018			
Volatile Organic Compounds (mg/kg)												
1,1,1,2-Tetrachloroethane	2	8.8	0.00022	-	NA	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	810	3,600	0.28	-	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.6	2.7	0.00003	-	NA	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	0.15	0.63	0.000013	-	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	3.6	16	0.00078	-	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	23	100	0.01	-	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	6.3	93	0.0021	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	0.0051	0.11	0.00000032	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	5.8	26	0.0012	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	30	180	0.0081	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.0053	0.064	0.00000014	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.036	0.16	0.0000021	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	180	930	0.03	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.46	2	0.000048	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	0.28	1.2	0.000047	-	NA	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	27	150	0.0087	-	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	160	2,300	0.013	-	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	2.6	11	0.00046	-	NA	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	160	2,300	0.023	-	NA	NA	NA	NA	NA	NA	NA	NA
Acetone	6,100	67,000	0.29	-	NA	NA	NA	NA	NA	NA	NA	NA
Benzene	1.2	5.1	0.00023	-	NA	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	29	180	0.0042	-	NA	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	15	63	0.0021	-	NA	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.29	1.3	0.000036	-	NA	NA	NA	NA	NA	NA	NA	NA
Bromoform	19	86	0.00087	-	NA	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.65	2.9	0.00018	-	NA	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	28	130	0.0053	-	NA	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	8.3	39	0.00023	-	NA	NA	NA	NA	NA	NA	NA	NA
Chloroethane	1,400	5,700	0.59	-	NA	NA	NA	NA	NA	NA	NA	NA
Chloroform	0.32	1.4	0.000061	-	NA	NA	NA	NA	NA	NA	NA	NA
Cis-1,2-Dichloroethene	16	230	0.0011	-	NA	NA	NA	NA	NA	NA	NA	NA
Cis-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Cymene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	8.7	37	0.03	-	NA	NA	NA	NA	NA	NA	NA	NA
Ethyl benzene	5.8	25	0.0017	-	NA	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	1.2	5.3	0.00027	-	NA	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	190	990	0.074	-	NA	NA	NA	NA	NA	NA	NA	NA
Meta/Para Xylene	55	240	0.019	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl bromide	0.68	3	0.00019	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl butyl ketone	20	130	0.00088	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl chloride	11	46	0.0049	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700	19,000	0.12	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl isobutyl ketone	3,300	14,000	0.14	-	NA	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	47	210	0.0032	-	NA	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	35	320	0.0027	-	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	390	5,800	0.32	-	NA	NA	NA	NA	NA	NA	NA	NA
Ortho Xylene	65	280	0.019	-	NA	NA	NA	NA	NA	NA	NA	NA
p-Chlorotoluene	160	2,300	0.024	-	NA	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	380	2,400	0.12	-	NA	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	780	12,000	0.59	-	NA	NA	NA	NA	NA	NA	NA	NA
Styrene	600	3,500	0.13	-	NA	NA	NA	NA	NA	NA	NA	NA
Tert Butyl Alcohol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	780	12,000	0.16	-	NA	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	8.1	39	0.0018	-	NA	NA	NA	NA	NA	NA	NA	NA
Toluene	490	4,700	0.076	-	NA	NA	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	160	2,300	0.011	-	NA	NA	NA	NA	NA	NA	NA	NA
Trans-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.41	1.9	0.0001	-	NA	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.059	1.7	0.0000065	-	NA	NA	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)												
Total TIC VOCs					NA	NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)												
1,2,4-Trichlorobenzene	5.8	26	0.0012	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	180	930	0.03	-	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	0.68	2.9	0.00025	-	NA	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	2.6	11	0.00046	-	NA	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	630	8,200	0.4	-	NA	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	6.3	82	0.0012	-	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	19	250	0.0023	-	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	130	1,600	0.042	-	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	13	160	0.0044	-	NA	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	1.7	7.4	0.00032	-	NA	NA	NA	NA	NA	NA	NA	NA

TABLE 8
SOIL SAMPLING RESULTS - COMPARISON TO USEPA Regional Screening Levels FTMM-08 Boring-10
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)	Weston 1995 Background (Main Post)	FTMM08-B10-SB-05		FTMM08-B10-SB-06			FTMM08-B10-SB-07
Sample ID					FTMM-08-B10-SB-05-5.5-6.0	FTMM-08-B10-SB-05-9.0-9.5	FTMM-08-B10-SB-06-2.5-3.0	FTMM-08-B10-SB-06-6.0-6.5	FTMM-08-B10-SB-06-9.0-9.5	FTMM-08-B10-SB-07-2.5-3.0
Sample Date					5/16/2018	5/16/2018	5/17/2018	5/17/2018	5/17/2018	5/16/2018
2,6-Dinitrotoluene	0.36	1.5	0.00067	-	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	480	6,000	0.39	-	NA	NA	NA	NA	NA	NA
2-Chlorophenol	39	580	0.0089	-	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	24	300	0.019	-	NA	NA	NA	NA	NA	NA
2-Methylphenol	320	4,100	0.075	-	NA	NA	NA	NA	NA	NA
2-Nitroaniline	63	800	0.008	-	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	1.2	5.1	0.00082	-	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	0.51	6.6	0.00026	-	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	630	8,200	0.17	-	NA	NA	NA	NA	NA	NA
4-Chloroaniline	2.7	11	0.00016	-	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
4-Nitroaniline	25	110	0.0016	-	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Acenaphthene	360	4,500	0.55	-	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Anthracene	1,800	23,000	5.8	-	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1.1	21	0.011	-	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.11	2.1	0.029	-	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1.1	21	0.3	-	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	11	210	2.9	-	NA	NA	NA	NA	NA	NA
Benzoic Acid	25,000	330,000	1.5	-	NA	NA	NA	NA	NA	NA
Benzyl alcohol	630	8,200	0.048	-	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethoxy)methane	19	250	0.0013	-	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethyl)ether	0.23	1	0.0000036	-	NA	NA	NA	NA	NA	NA
Bis(2-Chloroisopropyl)ether	310	4,700	0.026	-	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	290	1,200	0.24	-	NA	NA	NA	NA	NA	NA
Carbazole	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Chrysene	110	2,100	9	-	NA	NA	NA	NA	NA	NA
Cresol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	NA	NA	NA	NA	NA	NA
Dibenzofuran	7.3	100	0.015	-	NA	NA	NA	NA	NA	NA
Diethyl phthalate	5,100	66,000	0.61	-	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	630	8,200	0.23	-	NA	NA	NA	NA	NA	NA
Di-n-octylphthalate	63	820	5.7	-	NA	NA	NA	NA	NA	NA
Fluoranthene	240	3,000	8.9	-	NA	NA	NA	NA	NA	NA
Fluorene	240	3,000	0.54	-	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.21	0.96	0.00012	-	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	1.2	5.3	0.00027	-	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	0.18	0.75	0.00013	-	NA	NA	NA	NA	NA	NA
Hexachloroethane	1.8	8	0.0002	-	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	NA	NA	NA	NA	NA	NA
Isophorone	570	2,400	0.026	-	NA	NA	NA	NA	NA	NA
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	NA	NA	NA
Nitrobenzene	5.1	22	0.000092	-	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	0.002	0.034	0.000000027	-	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	0.078	0.33	0.0000081	-	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	110	470	0.067	-	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	4	0.000057	-	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Phenol	1,900	25,000	0.33	-	NA	NA	NA	NA	NA	NA
Pyrene	180	2,300	1.3	-	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)										
Total TIC SVOCs	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Extractable/Volatile Petroleum Hydrocarbons (mg/kg)										
C10-C12 Aromatics	NLE	NLE	NLE	-	< 1.2	< 1.1	< 1.1	< 1.2	< 1.3	< 1.1
C12-C16 Aliphatics	NLE	NLE	NLE	-	< 1.2 UJ	< 1.1 UJ	< 1.1 UJ	< 1.2 UJ	< 1.3 UJ	< 1.1 UJ
C12-C16 Aromatics	NLE	NLE	NLE	-	1.8	< 1.1	< 1.1	< 1.2	< 1.3	< 1.1
C16-C21 Aliphatics	NLE	NLE	NLE	-	< 1.2 UJ	< 1.1 UJ	< 1.1 UJ	< 1.2 UJ	< 1.3 UJ	< 1.1 UJ
C16-C21 Aromatics	NLE	NLE	NLE	-	7.8	< 1.1	< 1.1	< 1.2	< 1.3	< 1.1
C21-C36 Aromatics	NLE	NLE	NLE	-	8.3	< 1.1	0.37 J	< 1.2	< 1.3	< 1.1
C21-C40 Aliphatics	NLE	NLE	NLE	-	8.5 J-	< 1.1 UJ	0.84 J	0.64 J	< 1.3 UJ	< 1.1 UJ
C9-C12 Aliphatics	NLE	NLE	NLE	-	0.4 J	< 1.1 UJ	< 1.1 UJ	< 1.3 UJ	< 1.3 UJ	< 1.1 UJ
Total Aliphatics	NLE	NLE	NLE	-	9.4 J-	< 4.6 UJ	< 4.5 UJ	< 4.9 UJ	< 5.2 UJ	< 4.2 UJ
Total Aromatics	NLE	NLE	NLE	-	18.4	< 4.6	< 4.5	< 4.9	< 5.2	< 4.2
Total EPH	SS	SS	SS	-	27.8	< 9.1	< 9.1	< 9.8	< 10.4	< 8.4
PCBs (mg/kg)										
Aroclor-1016	0.41	5.1	0.013	-	< 0.029	< 0.029	< 0.028	< 0.031	< 0.031	< 0.027
Aroclor-1221	0.2	0.83	0.00008	-	< 0.029	< 0.029	< 0.028	< 0.031	< 0.031	< 0.027
Aroclor-1232	0.17	0.72	0.00008	-	< 0.029	< 0.029	< 0.028	< 0.031	< 0.031	< 0.027
Aroclor-1242	0.23	0.95	0.0012	-	< 0.029	< 0.029	< 0.028	< 0.031	< 0.031	< 0.027
Aroclor-1248	0.23	0.95	0.0012	-	< 0.029	< 0.029	< 0.028	< 0.031	< 0.031	< 0.027
Aroclor-1254	0.12	0.97	0.002	-	< 0.029	< 0.029	< 0.028	< 0.031	< 0.031	< 0.027
Aroclor-1260	0.24	0.99	0.0055	-	< 0.029	< 0.029	< 0.028	< 0.031	< 0.031	< 0.027

TABLE 8
SOIL SAMPLING RESULTS - COMPARISON TO USEPA Regional Screening Levels FTMM-08 Boring-10
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)	Weston 1995 Background (Main Post)	FTMM08-B10-SB-05		FTMM08-B10-SB-06			FTMM08-B10-SB-07
Sample ID	(HQ=0.1)	(HQ=0.1)	(HQ=0.1)	(Main Post)	FTMM-08-B10-SB-05-5.5-6.0	FTMM-08-B10-SB-05-9.0-9.5	FTMM-08-B10-SB-06-2.5-3.0	FTMM-08-B10-SB-06-6.0-6.5	FTMM-08-B10-SB-06-9.0-9.5	FTMM-08-B10-SB-07-2.5-3.0
Sample Date					5/16/2018	5/16/2018	5/17/2018	5/17/2018	5/17/2018	5/16/2018
Aroclor-1268	NLE	NLE	NLE	-	< 0.029	< 0.029	< 0.028	< 0.031	< 0.031	< 0.027
Total PCBs	NLE	NLE	NLE	-	< 0.26	< 0.26	< 0.26	< 0.28	< 0.28	< 0.24
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA	NA
Arsenic	0.68	3	0.0015	22.9	NA	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA
Cadmium	7.1	98	0.069	ND	NA	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA	NA
Lead	400	800	14	19.5	NA	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA	NA
Mercury	1.1	4.6	0.0033	ND	NA	NA	NA	NA	NA	NA
Molybdenum	39	580	0.2	ND	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Strontium	4,700	70,000	42	ND	NA	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA	NA
Tin	4,700	70,000	300	ND	NA	NA	NA	NA	NA	NA
Titanium	NLE	NLE	NLE	ND	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA

TABLE 8
SOIL SAMPLING RESULTS - COMPARISON TO USEPA Regional Screening Levels FTMM-08 Boring-10
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)	Weston 1995 Background (Main Post)	FTMM08-B10-SB-07			FTMM08-B10-SB-08		
	Sample ID	Sample Date			FTMM-08-B10-SB-07-6.0-6.5	FTMM-08-B10-SB-107-6.0-6.5	FTMM-08-B10-SB-07-9.0-9.5	FTMM-08-B10-SB-08-2.5-3.0	FTMM-08-B10-SB-08-6.0-6.5	FTMM-08-B10-SB-08-9.0-9.5
					5/16/2018	5/16/2018	5/16/2018	5/17/2018	5/17/2018	5/17/2018
Volatile Organic Compounds (mg/kg)										
1,1,1,2-Tetrachloroethane	2	8.8	0.00022	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,1,1-Trichloroethane	810	3,600	0.28	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,1,2,2-Tetrachloroethane	0.6	2.7	0.00003	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,1,2-Trichloroethane	0.15	0.63	0.000013	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,1-Dichloroethane	3.6	16	0.00078	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,1-Dichloroethene	23	100	0.01	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,1-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,2,3-Trichlorobenzene	6.3	93	0.0021	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,2,3-Trichloropropane	0.0051	0.11	0.00000032	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,2,4-Trichlorobenzene	5.8	26	0.0012	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,2,4-Trimethylbenzene	30	180	0.0081	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,2-Dibromo-3-chloropropane	0.0053	0.064	0.00000014	-	NA	NA	NA	NA	< 0.0015 UJ	NA
1,2-Dibromoethane	0.036	0.16	0.00000021	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,2-Dichlorobenzene	180	930	0.03	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,2-Dichloroethane	0.46	2	0.000048	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,2-Dichloropropane	0.28	1.2	0.000047	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,3,5-Trimethylbenzene	27	150	0.0087	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,3-Dichlorobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,3-Dichloropropane	160	2,300	0.013	-	NA	NA	NA	NA	< 0.0006 UJ	NA
1,4-Dichlorobenzene	2.6	11	0.00046	-	NA	NA	NA	NA	< 0.0006 UJ	NA
2,2-Dichloropropane	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
2-Chlorotoluene	160	2,300	0.023	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Acetone	6,100	67,000	0.29	-	NA	NA	NA	NA	0.0055 J	NA
Benzene	1.2	5.1	0.00023	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Bromobenzene	29	180	0.0042	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Bromochloromethane	15	63	0.0021	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Bromodichloromethane	0.29	1.3	0.000036	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Bromoform	19	86	0.00087	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Carbon tetrachloride	0.65	2.9	0.00018	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Chlorobenzene	28	130	0.0053	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Chlorodibromomethane	8.3	39	0.00023	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Chloroethane	1,400	5,700	0.59	-	NA	NA	NA	NA	< 0.0015 UJ	NA
Chloroform	0.32	1.4	0.000061	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Cis-1,2-Dichloroethene	16	230	0.0011	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Cis-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Cymene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Dichlorodifluoromethane	8.7	37	0.03	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Ethyl benzene	5.8	25	0.0017	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Hexachlorobutadiene	1.2	5.3	0.00027	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Isopropylbenzene	190	990	0.074	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Meta/Para Xylene	55	240	0.019	-	NA	NA	NA	NA	< 0.0012 UJ	NA
Methyl bromide	0.68	3	0.00019	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Methyl butyl ketone	20	130	0.00088	-	NA	NA	NA	NA	< 0.0029 UJ	NA
Methyl chloride	11	46	0.0049	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Methyl ethyl ketone	2,700	19,000	0.12	-	NA	NA	NA	NA	< 0.0029 UJ	NA
Methyl isobutyl ketone	3,300	14,000	0.14	-	NA	NA	NA	NA	< 0.0029 UJ	NA
Methyl Tertbutyl Ether	47	210	0.0032	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Methylene chloride	35	320	0.0027	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	NA	< 0.0006 UJ	NA
n-Butylbenzene	390	5,800	0.32	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Ortho Xylene	65	280	0.019	-	NA	NA	NA	NA	< 0.0006 UJ	NA
p-Chlorotoluene	160	2,300	0.024	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Propylbenzene	380	2,400	0.12	-	NA	NA	NA	NA	< 0.0006 UJ	NA
sec-Butylbenzene	780	12,000	0.59	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Styrene	600	3,500	0.13	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Tert Butyl Alcohol	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0029 UJ	NA
tert-Butylbenzene	780	12,000	0.16	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Tetrachloroethene	8.1	39	0.0018	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Toluene	490	4,700	0.076	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Trans-1,2-Dichloroethene	160	2,300	0.011	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Trans-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Trichloroethene	0.41	1.9	0.0001	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	NA	NA	NA	< 0.0006 UJ	NA
Vinyl chloride	0.059	1.7	0.0000065	-	NA	NA	NA	NA	< 0.0006 UJ	NA
TIC VOCs (µg/kg)										
Total TIC VOCs					NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)										
1,2,4-Trichlorobenzene	5.8	26	0.0012	-	NA	NA	NA	NA	< 0.079	NA
1,2-Dichlorobenzene	180	930	0.03	-	NA	NA	NA	NA	< 0.079	NA
1,2-Diphenylhydrazine	0.68	2.9	0.00025	-	NA	NA	NA	NA	< 0.079	NA
1,3-Dichlorobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.079	NA
1,4-Dichlorobenzene	2.6	11	0.00046	-	NA	NA	NA	NA	< 0.079	NA
2,4,5-Trichlorophenol	630	8,200	0.4	-	NA	NA	NA	NA	< 0.079	NA
2,4,6-Trichlorophenol	6.3	82	0.0012	-	NA	NA	NA	NA	< 0.079	NA
2,4-Dichlorophenol	19	250	0.0023	-	NA	NA	NA	NA	< 0.079	NA
2,4-Dimethylphenol	130	1,600	0.042	-	NA	NA	NA	NA	< 0.16	NA
2,4-Dinitrophenol	13	160	0.0044	-	NA	NA	NA	NA	< 0.47	NA
2,4-Dinitrotoluene	1.7	7.4	0.00032	-	NA	NA	NA	NA	< 0.079	NA

TABLE 8
SOIL SAMPLING RESULTS - COMPARISON TO USEPA Regional Screening Levels FTMM-08 Boring-10
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)	Weston 1995 Background (Main Post)	FTMM08-B10-SB-07			FTMM08-B10-SB-08		
	Sample ID	Sample Date			FTMM-08-B10-SB-07-6.0-6.5	FTMM-08-B10-SB-107-6.0-6.5	FTMM-08-B10-SB-07-9.0-9.5	FTMM-08-B10-SB-08-2.5-3.0	FTMM-08-B10-SB-08-6.0-6.5	FTMM-08-B10-SB-08-9.0-9.5
					5/16/2018	5/16/2018	5/16/2018	5/17/2018	5/17/2018	5/17/2018
2,6-Dinitrotoluene	0.36	1.5	0.000067	-	NA	NA	NA	NA	< 0.079	NA
2-Chloronaphthalene	480	6,000	0.39	-	NA	NA	NA	NA	< 0.079	NA
2-Chlorophenol	39	580	0.0089	-	NA	NA	NA	NA	< 0.24	NA
2-Methylnaphthalene	24	300	0.019	-	NA	NA	NA	NA	< 0.079	NA
2-Methylphenol	320	4,100	0.075	-	NA	NA	NA	NA	< 0.079	NA
2-Nitroaniline	63	800	0.008	-	NA	NA	NA	NA	< 0.24	NA
2-Nitrophenol	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.079	NA
3,3'-Dichlorobenzidine	1.2	5.1	0.00082	-	NA	NA	NA	NA	< 0.24	NA
3-Nitroaniline	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.24	NA
4,6-Dinitro-2-methylphenol	0.51	6.6	0.00026	-	NA	NA	NA	NA	< 0.24	NA
4-Bromophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.079	NA
4-Chloro-3-methylphenol	630	8,200	0.17	-	NA	NA	NA	NA	< 0.079	NA
4-Chloroaniline	2.7	11	0.00016	-	NA	NA	NA	NA	< 0.24	NA
4-Chlorophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.079	NA
4-Nitroaniline	25	110	0.0016	-	NA	NA	NA	NA	< 0.24	NA
4-Nitrophenol	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.16	NA
Acenaphthene	360	4,500	0.55	-	NA	NA	NA	NA	< 0.079	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.079	NA
Anthracene	1,800	23,000	5.8	-	NA	NA	NA	NA	< 0.079	NA
Benzo(a)anthracene	1.1	21	0.011	-	NA	NA	NA	NA	< 0.079	NA
Benzo(a)pyrene	0.11	2.1	0.029	-	NA	NA	NA	NA	< 0.079	NA
Benzo(b)fluoranthene	1.1	21	0.3	-	NA	NA	NA	NA	< 0.079	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.079	NA
Benzo(k)fluoranthene	11	210	2.9	-	NA	NA	NA	NA	< 0.079	NA
Benzoic Acid	25,000	330,000	1.5	-	NA	NA	NA	NA	< 0.47	NA
Benzyl alcohol	630	8,200	0.048	-	NA	NA	NA	NA	< 0.24	NA
Bis(2-Chloroethoxy)methane	19	250	0.0013	-	NA	NA	NA	NA	< 0.079	NA
Bis(2-Chloroethyl)ether	0.23	1	0.0000036	-	NA	NA	NA	NA	< 0.079	NA
Bis(2-Chloroisopropyl)ether	310	4,700	0.026	-	NA	NA	NA	NA	< 0.079	NA
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	NA	NA	NA	NA	< 0.24	NA
Butyl benzyl phthalate	290	1,200	0.24	-	NA	NA	NA	NA	< 0.079	NA
Carbazole	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.079	NA
Chrysene	110	2,100	9	-	NA	NA	NA	NA	< 0.079	NA
Cresol	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.079	NA
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	NA	NA	NA	NA	< 0.079	NA
Dibenzofuran	7.3	100	0.015	-	NA	NA	NA	NA	< 0.079	NA
Diethyl phthalate	5,100	66,000	0.61	-	NA	NA	NA	NA	< 0.079	NA
Dimethyl phthalate	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.079	NA
Di-n-butylphthalate	630	8,200	0.23	-	NA	NA	NA	NA	< 0.079	NA
Di-n-octylphthalate	63	820	5.7	-	NA	NA	NA	NA	< 0.079	NA
Fluoranthene	240	3,000	8.9	-	NA	NA	NA	NA	< 0.079	NA
Fluorene	240	3,000	0.54	-	NA	NA	NA	NA	< 0.079	NA
Hexachlorobenzene	0.21	0.96	0.00012	-	NA	NA	NA	NA	< 0.079	NA
Hexachlorobutadiene	1.2	5.3	0.00027	-	NA	NA	NA	NA	< 0.079	NA
Hexachlorocyclopentadiene	0.18	0.75	0.00013	-	NA	NA	NA	NA	< 0.24	NA
Hexachloroethane	1.8	8	0.0002	-	NA	NA	NA	NA	< 0.079	NA
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	NA	NA	NA	NA	< 0.079	NA
Isophorone	570	2,400	0.026	-	NA	NA	NA	NA	< 0.079	NA
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	NA	< 0.079	NA
Nitrobenzene	5.1	22	0.000092	-	NA	NA	NA	NA	< 0.079	NA
N-Nitrosodimethylamine	0.002	0.034	0.000000027	-	NA	NA	NA	NA	< 0.16	NA
N-Nitroso-di-n-propylamine	0.078	0.33	0.00000081	-	NA	NA	NA	NA	< 0.24	NA
N-Nitrosodiphenylamine	110	470	0.067	-	NA	NA	NA	NA	< 0.079	NA
Pentachlorophenol	1	4	0.000057	-	NA	NA	NA	NA	< 0.24	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	< 0.079	NA
Phenol	1,900	25,000	0.33	-	NA	NA	NA	NA	< 0.079	NA
Pyrene	180	2,300	1.3	-	NA	NA	NA	NA	< 0.079	NA
TIC SVOCs (mg/kg)										
Total TIC SVOCs	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Extractable/Volatile Petroleum Hydrocarbons (mg/kg)										
C10-C12 Aromatics	NLE	NLE	NLE	-	< 1.2	< 1.2	< 1.2	< 1.1	< 1.1	< 1.2
C12-C16 Aliphatics	NLE	NLE	NLE	-	< 1.2 UJ	< 1.2 UJ	< 1.2 UJ	< 1.1 UJ	< 1.1 UJ	< 1.2 UJ
C12-C16 Aromatics	NLE	NLE	NLE	-	< 1.2	< 1.2	< 1.2	< 1.1	< 1.1	< 1.2
C16-C21 Aliphatics	NLE	NLE	NLE	-	< 1.2 UJ	< 1.2 UJ	< 1.2 UJ	1.6 J	< 1.1 UJ	< 1.2 UJ
C16-C21 Aromatics	NLE	NLE	NLE	-	< 1.2	< 1.2	< 1.2	< 1.1	0.21 J	< 1.2
C21-C36 Aromatics	NLE	NLE	NLE	-	0.49 J	< 1.2	< 1.2	< 1.1	< 1.1	< 1.2
C21-C40 Aliphatics	NLE	NLE	NLE	-	1.3 J	< 1.2 UJ	< 1.2 UJ	62.4 J-	< 1.1 UJ	< 1.2 UJ
C9-C12 Aliphatics	NLE	NLE	NLE	-	< 1.2 UJ	< 1.2 UJ	< 1.2 UJ	0.2 J	< 1.1 UJ	< 1.2 UJ
Total Aliphatics	NLE	NLE	NLE	-	< 4.9 UJ	< 4.8 UJ	< 4.8 UJ	64.4 J-	< 4.5 UJ	< 4.9 UJ
Total Aromatics	NLE	NLE	NLE	-	< 4.9	< 4.8	< 4.8	< 4.5	< 4.5	< 4.9
Total EPH	SS	SS	SS	-	< 9.9	< 9.7	< 9.6	65	< 9	< 9.7
PCBs (mg/kg)										
Aroclor-1016	0.41	5.1	0.013	-	< 0.031	< 0.03	< 0.03	< 0.028	< 0.028	< 0.031
Aroclor-1221	0.2	0.83	0.00008	-	< 0.031	< 0.03	< 0.03	< 0.028	< 0.028	< 0.031
Aroclor-1232	0.17	0.72	0.00008	-	< 0.031	< 0.03	< 0.03	< 0.028	< 0.028	< 0.031
Aroclor-1242	0.23	0.95	0.0012	-	< 0.031	< 0.03	< 0.03	< 0.028	< 0.028	< 0.031
Aroclor-1248	0.23	0.95	0.0012	-	< 0.031	< 0.03	< 0.03	< 0.028	< 0.028	< 0.031
Aroclor-1254	0.12	0.97	0.002	-	< 0.031	< 0.03	< 0.03	0.019 J	< 0.028	< 0.031
Aroclor-1260	0.24	0.99	0.0055	-	< 0.031	< 0.03	< 0.03	< 0.028	< 0.028	< 0.031

TABLE 8
SOIL SAMPLING RESULTS - COMPARISON TO USEPA Regional Screening Levels FTMM-08 Boring-10
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)	Weston 1995 Background (Main Post)	FTMM08-B10-SB-07			FTMM08-B10-SB-08		
Sample ID					FTMM-08-B10-SB-07-6.0-6.5	FTMM-08-B10-SB-107-6.0-6.5	FTMM-08-B10-SB-07-9.0-9.5	FTMM-08-B10-SB-08-2.5-3.0	FTMM-08-B10-SB-08-6.0-6.5	FTMM-08-B10-SB-08-9.0-9.5
Sample Date					5/16/2018	5/16/2018	5/16/2018	5/17/2018	5/17/2018	5/17/2018
Aroclor-1268	NLE	NLE	NLE	-	< 0.031	< 0.03	< 0.03	< 0.028	< 0.028	< 0.031
Total PCBs	NLE	NLE	NLE	-	< 0.28	< 0.27	< 0.27	< 0.25	< 0.25	< 0.28
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	2,140 J	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	< 0.74	NA
Arsenic	0.68	3	0.0015	22.9	NA	NA	NA	NA	4.8	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	6.4 J	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	0.27 J	NA
Cadmium	7.1	98	0.069	ND	NA	NA	NA	NA	< 0.38	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	265 J	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	33.1 J	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	< 1.9	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	1.5 J	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	8,750	NA
Lead	400	800	14	19.5	NA	NA	NA	NA	3.7	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	301 J	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	3.6 J	NA
Mercury	1.1	4.6	0.0033	ND	NA	NA	NA	NA	0.053 J	NA
Molybdenum	39	580	0.2	ND	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	1.8 J	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	772 J	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	< 1.9	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	< 0.74	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	50.1 J	NA
Strontium	4,700	70,000	42	ND	NA	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	< 0.38	NA
Tin	4,700	70,000	300	ND	NA	NA	NA	NA	NA	NA
Titanium	NLE	NLE	NLE	ND	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	17 J	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	13.5 J	NA

TABLE 8
SOIL SAMPLING RESULTS - COMPARISON TO USEPA Regional Screening Levels FTMM-08 Boring-10
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)	Weston 1995 Background (Main Post)	FTMM08-B10-SB-09			FTMM08-B10-SB-10		
	Sample ID	Sample Date			FTMM-08-B10-SB-09-3.0-3.5	FTMM-08-B10-SB-09-6.0-6.5	FTMM-08-B10-SB-09-9.0-9.5	FTMM-08-B10-SB-10-2.0-2.5	FTMM-08-B10-SB-10-5.5-6.0	FTMM-08-B10-SB-10-9.0-9.5
					5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018
Volatile Organic Compounds (mg/kg)										
1,1,1,2-Tetrachloroethane	2	8.8	0.00022	-	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	810	3,600	0.28	-	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.6	2.7	0.00003	-	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	0.15	0.63	0.000013	-	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	3.6	16	0.00078	-	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	23	100	0.01	-	NA	NA	NA	NA	NA	NA
1,1-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	6.3	93	0.0021	-	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	0.0051	0.11	0.00000032	-	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	5.8	26	0.0012	-	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	30	180	0.0081	-	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.0053	0.064	0.00000014	-	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.036	0.16	0.0000021	-	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	180	930	0.03	-	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.46	2	0.000048	-	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	0.28	1.2	0.000047	-	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	27	150	0.0087	-	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	160	2,300	0.013	-	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	2.6	11	0.00046	-	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	160	2,300	0.023	-	NA	NA	NA	NA	NA	NA
Acetone	6,100	67,000	0.29	-	NA	NA	NA	NA	NA	NA
Benzene	1.2	5.1	0.00023	-	NA	NA	NA	NA	NA	NA
Bromobenzene	29	180	0.0042	-	NA	NA	NA	NA	NA	NA
Bromochloromethane	15	63	0.0021	-	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.29	1.3	0.000036	-	NA	NA	NA	NA	NA	NA
Bromoform	19	86	0.00087	-	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.65	2.9	0.00018	-	NA	NA	NA	NA	NA	NA
Chlorobenzene	28	130	0.0053	-	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	8.3	39	0.00023	-	NA	NA	NA	NA	NA	NA
Chloroethane	1,400	5,700	0.59	-	NA	NA	NA	NA	NA	NA
Chloroform	0.32	1.4	0.000061	-	NA	NA	NA	NA	NA	NA
Cis-1,2-Dichloroethene	16	230	0.0011	-	NA	NA	NA	NA	NA	NA
Cis-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Cymene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	8.7	37	0.03	-	NA	NA	NA	NA	NA	NA
Ethyl benzene	5.8	25	0.0017	-	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	1.2	5.3	0.00027	-	NA	NA	NA	NA	NA	NA
Isopropylbenzene	190	990	0.074	-	NA	NA	NA	NA	NA	NA
Meta/Para Xylene	55	240	0.019	-	NA	NA	NA	NA	NA	NA
Methyl bromide	0.68	3	0.00019	-	NA	NA	NA	NA	NA	NA
Methyl butyl ketone	20	130	0.00088	-	NA	NA	NA	NA	NA	NA
Methyl chloride	11	46	0.0049	-	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700	19,000	0.12	-	NA	NA	NA	NA	NA	NA
Methyl isobutyl ketone	3,300	14,000	0.14	-	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	47	210	0.0032	-	NA	NA	NA	NA	NA	NA
Methylene chloride	35	320	0.0027	-	NA	NA	NA	NA	NA	NA
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	NA	NA	NA
n-Butylbenzene	390	5,800	0.32	-	NA	NA	NA	NA	NA	NA
Ortho Xylene	65	280	0.019	-	NA	NA	NA	NA	NA	NA
p-Chlorotoluene	160	2,300	0.024	-	NA	NA	NA	NA	NA	NA
Propylbenzene	380	2,400	0.12	-	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	780	12,000	0.59	-	NA	NA	NA	NA	NA	NA
Styrene	600	3,500	0.13	-	NA	NA	NA	NA	NA	NA
Tert Butyl Alcohol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	780	12,000	0.16	-	NA	NA	NA	NA	NA	NA
Tetrachloroethene	8.1	39	0.0018	-	NA	NA	NA	NA	NA	NA
Toluene	490	4,700	0.076	-	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	160	2,300	0.011	-	NA	NA	NA	NA	NA	NA
Trans-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Trichloroethene	0.41	1.9	0.0001	-	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.059	1.7	0.0000065	-	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)										
Total TIC VOCs					NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)										
1,2,4-Trichlorobenzene	5.8	26	0.0012	-	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	180	930	0.03	-	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	0.68	2.9	0.00025	-	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	2.6	11	0.00046	-	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	630	8,200	0.4	-	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	6.3	82	0.0012	-	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	19	250	0.0023	-	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	130	1,600	0.042	-	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	13	160	0.0044	-	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	1.7	7.4	0.00032	-	NA	NA	NA	NA	NA	NA

TABLE 8
SOIL SAMPLING RESULTS - COMPARISON TO USEPA Regional Screening Levels FTMM-08 Boring-10
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)	Weston 1995 Background (Main Post)	FTMM08-B10-SB-09			FTMM08-B10-SB-10		
	Sample ID	Sample Date			FTMM-08-B10-SB-09-3.0-3.5	FTMM-08-B10-SB-09-6.0-6.5	FTMM-08-B10-SB-09-9.0-9.5	FTMM-08-B10-SB-10-2.0-2.5	FTMM-08-B10-SB-10-5.5-6.0	FTMM-08-B10-SB-10-9.0-9.5
					5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018
2,6-Dinitrotoluene	0.36	1.5	0.000067	-	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	480	6,000	0.39	-	NA	NA	NA	NA	NA	NA
2-Chlorophenol	39	580	0.0089	-	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	24	300	0.019	-	NA	NA	NA	NA	NA	NA
2-Methylphenol	320	4,100	0.075	-	NA	NA	NA	NA	NA	NA
2-Nitroaniline	63	800	0.008	-	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	1.2	5.1	0.00082	-	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	0.51	6.6	0.00026	-	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	630	8,200	0.17	-	NA	NA	NA	NA	NA	NA
4-Chloroaniline	2.7	11	0.00016	-	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
4-Nitroaniline	25	110	0.0016	-	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Acenaphthene	360	4,500	0.55	-	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Anthracene	1,800	23,000	5.8	-	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1.1	21	0.011	-	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.11	2.1	0.029	-	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1.1	21	0.3	-	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	11	210	2.9	-	NA	NA	NA	NA	NA	NA
Benzoic Acid	25,000	330,000	1.5	-	NA	NA	NA	NA	NA	NA
Benzyl alcohol	630	8,200	0.048	-	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethoxy)methane	19	250	0.0013	-	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethyl)ether	0.23	1	0.0000036	-	NA	NA	NA	NA	NA	NA
Bis(2-Chloroisopropyl)ether	310	4,700	0.026	-	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	290	1,200	0.24	-	NA	NA	NA	NA	NA	NA
Carbazole	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Chrysene	110	2,100	9	-	NA	NA	NA	NA	NA	NA
Cresol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	NA	NA	NA	NA	NA	NA
Dibenzofuran	7.3	100	0.015	-	NA	NA	NA	NA	NA	NA
Diethyl phthalate	5,100	66,000	0.61	-	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	630	8,200	0.23	-	NA	NA	NA	NA	NA	NA
Di-n-octylphthalate	63	820	5.7	-	NA	NA	NA	NA	NA	NA
Fluoranthene	240	3,000	8.9	-	NA	NA	NA	NA	NA	NA
Fluorene	240	3,000	0.54	-	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.21	0.96	0.00012	-	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	1.2	5.3	0.00027	-	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	0.18	0.75	0.00013	-	NA	NA	NA	NA	NA	NA
Hexachloroethane	1.8	8	0.0002	-	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	NA	NA	NA	NA	NA	NA
Isophorone	570	2,400	0.026	-	NA	NA	NA	NA	NA	NA
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	NA	NA	NA
Nitrobenzene	5.1	22	0.000092	-	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	0.002	0.034	0.000000027	-	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	0.078	0.33	0.00000081	-	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	110	470	0.067	-	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	4	0.000057	-	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Phenol	1,900	25,000	0.33	-	NA	NA	NA	NA	NA	NA
Pyrene	180	2,300	1.3	-	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)										
Total TIC SVOCs	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Extractable/Volatile Petroleum Hydrocarbons (mg/kg)										
C10-C12 Aromatics	NLE	NLE	NLE	-	< 1	< 1.1	< 1.2	< 1.1	< 1.2	< 1.3
C12-C16 Aliphatics	NLE	NLE	NLE	-	< 1 UJ	< 1.1 UJ	< 1.2 UJ	< 1.1 UJ	< 1.2 UJ	< 1.3 UJ
C12-C16 Aromatics	NLE	NLE	NLE	-	< 1	0.2 J	< 1.2	1 J	< 1.2	< 1.3
C16-C21 Aliphatics	NLE	NLE	NLE	-	< 1 UJ	< 1.1 UJ	< 1.2 UJ	< 1.1 UJ	< 1.2 UJ	< 1.3 UJ
C16-C21 Aromatics	NLE	NLE	NLE	-	< 1	1.1 J	< 1.2	8.5	0.68 J	< 1.3
C21-C36 Aromatics	NLE	NLE	NLE	-	< 1	2.6	< 1.2	12.4	1.1 J	< 1.3
C21-C40 Aliphatics	NLE	NLE	NLE	-	0.55 J	< 1.1 UJ	< 1.2 UJ	4.7 J-	4.5 J-	< 1.3 UJ
C9-C12 Aliphatics	NLE	NLE	NLE	-	< 1 UJ	< 1.1 UJ	< 1.2 UJ	0.17 J	< 1.3 UJ	< 1.3 UJ
Total Aliphatics	NLE	NLE	NLE	-	< 4.2 UJ	< 4.4 UJ	< 4.8 UJ	5.5 J-	5.1 J-	< 5.1 UJ
Total Aromatics	NLE	NLE	NLE	-	< 4.2	4.1 J	< 4.8	22.1	2.2 J	< 5.1
Total EPH	SS	SS	SS	-	< 8.4	4.3 J	< 9.6	27.7	7.3 J	< 10.2
PCBs (mg/kg)										
Aroclor-1016	0.41	5.1	0.013	-	< 0.026	< 0.027	< 0.03	< 0.029	< 0.028	< 0.031
Aroclor-1221	0.2	0.83	0.00008	-	< 0.026	< 0.027	< 0.03	< 0.029	< 0.028	< 0.031
Aroclor-1232	0.17	0.72	0.00008	-	< 0.026	< 0.027	< 0.03	< 0.029	< 0.028	< 0.031
Aroclor-1242	0.23	0.95	0.0012	-	< 0.026	< 0.027	< 0.03	< 0.029	< 0.028	< 0.031
Aroclor-1248	0.23	0.95	0.0012	-	< 0.026	< 0.027	< 0.03	< 0.029	< 0.028	< 0.031
Aroclor-1254	0.12	0.97	0.002	-	< 0.026	< 0.027	< 0.03	0.21 JN	0.025 JN	< 0.031
Aroclor-1260	0.24	0.99	0.0055	-	< 0.026	< 0.027	< 0.03	0.13	0.017 J	< 0.031

TABLE 8
SOIL SAMPLING RESULTS - COMPARISON TO USEPA Regional Screening Levels FTMM-08 Boring-10
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)	Weston 1995 Background (Main Post)	FTMM08-B10-SB-09			FTMM08-B10-SB-10		
Sample ID					FTMM-08-B10-SB-09-3.0-3.5	FTMM-08-B10-SB-09-6.0-6.5	FTMM-08-B10-SB-09-9.0-9.5	FTMM-08-B10-SB-10-2.0-2.5	FTMM-08-B10-SB-10-5.5-6.0	FTMM-08-B10-SB-10-9.0-9.5
Sample Date					5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018	5/16/2018
Aroclor-1268	NLE	NLE	NLE	-	< 0.026	< 0.027	< 0.03	< 0.029	< 0.028	< 0.031
Total PCBs	NLE	NLE	NLE	-	< 0.24	< 0.25	< 0.27	0.34 J	< 0.26	< 0.28
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA	NA
Arsenic	0.68	3	0.0015	22.9	NA	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA
Cadmium	7.1	98	0.069	ND	NA	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA	NA
Lead	400	800	14	19.5	NA	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA	NA
Mercury	1.1	4.6	0.0033	ND	NA	NA	NA	NA	NA	NA
Molybdenum	39	580	0.2	ND	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Strontium	4,700	70,000	42	ND	NA	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA	NA
Tin	4,700	70,000	300	ND	NA	NA	NA	NA	NA	NA
Titanium	NLE	NLE	NLE	ND	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	NA	NA	NA	NA	NA	NA

TABLE 8
SOIL SAMPLING RESULTS - COMPARISON TO USEPA Regional Screening Levels FTMM-08 Boring-10
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)	Weston 1995 Background (Main Post)	FTMM08-B10-SB-13			FTMM08-B10-SB-14			
	Sample ID	Sample Date				FTMM-08-B10-SB-13-2.5-3.0	FTMM-08-B10-SB-13-6.0-6.5	FTMM-08-B10-SB-13-9.0-9.5	FTMM-08-B10-SB-14-2.5-3	FTMM-08-B10-SB-14-6.0-6.5	FTMM-08-B10-SB-14-9.0-9.5
						5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018
Volatile Organic Compounds (mg/kg)											
1,1,1,2-Tetrachloroethane	2	8.8	0.00022	-	NA	NA	NA	NA	NA	NA	NA
1,1,1-Trichloroethane	810	3,600	0.28	-	NA	NA	NA	NA	NA	NA	NA
1,1,2,2-Tetrachloroethane	0.6	2.7	0.00003	-	NA	NA	NA	NA	NA	NA	NA
1,1,2-Trichloroethane	0.15	0.63	0.000013	-	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	3.6	16	0.00078	-	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	23	100	0.01	-	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichlorobenzene	6.3	93	0.0021	-	NA	NA	NA	NA	NA	NA	NA
1,2,3-Trichloropropane	0.0051	0.11	0.00000032	-	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	5.8	26	0.0012	-	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	30	180	0.0081	-	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromo-3-chloropropane	0.0053	0.064	0.00000014	-	NA	NA	NA	NA	NA	NA	NA
1,2-Dibromoethane	0.036	0.16	0.0000021	-	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	180	930	0.03	-	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloroethane	0.46	2	0.000048	-	NA	NA	NA	NA	NA	NA	NA
1,2-Dichloropropane	0.28	1.2	0.000047	-	NA	NA	NA	NA	NA	NA	NA
1,3,5-Trimethylbenzene	27	150	0.0087	-	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
1,3-Dichloropropane	160	2,300	0.013	-	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	2.6	11	0.00046	-	NA	NA	NA	NA	NA	NA	NA
2,2-Dichloropropane	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
2-Chlorotoluene	160	2,300	0.023	-	NA	NA	NA	NA	NA	NA	NA
Acetone	6,100	67,000	0.29	-	NA	NA	NA	NA	NA	NA	NA
Benzene	1.2	5.1	0.00023	-	NA	NA	NA	NA	NA	NA	NA
Bromobenzene	29	180	0.0042	-	NA	NA	NA	NA	NA	NA	NA
Bromochloromethane	15	63	0.0021	-	NA	NA	NA	NA	NA	NA	NA
Bromodichloromethane	0.29	1.3	0.000036	-	NA	NA	NA	NA	NA	NA	NA
Bromoform	19	86	0.00087	-	NA	NA	NA	NA	NA	NA	NA
Carbon tetrachloride	0.65	2.9	0.00018	-	NA	NA	NA	NA	NA	NA	NA
Chlorobenzene	28	130	0.0053	-	NA	NA	NA	NA	NA	NA	NA
Chlorodibromomethane	8.3	39	0.00023	-	NA	NA	NA	NA	NA	NA	NA
Chloroethane	1,400	5,700	0.59	-	NA	NA	NA	NA	NA	NA	NA
Chloroform	0.32	1.4	0.000061	-	NA	NA	NA	NA	NA	NA	NA
Cis-1,2-Dichloroethene	16	230	0.0011	-	NA	NA	NA	NA	NA	NA	NA
Cis-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Cymene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Dichlorodifluoromethane	8.7	37	0.03	-	NA	NA	NA	NA	NA	NA	NA
Ethyl benzene	5.8	25	0.0017	-	NA	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	1.2	5.3	0.00027	-	NA	NA	NA	NA	NA	NA	NA
Isopropylbenzene	190	990	0.074	-	NA	NA	NA	NA	NA	NA	NA
Meta/Para Xylene	55	240	0.019	-	NA	NA	NA	NA	NA	NA	NA
Methyl bromide	0.68	3	0.00019	-	NA	NA	NA	NA	NA	NA	NA
Methyl butyl ketone	20	130	0.00088	-	NA	NA	NA	NA	NA	NA	NA
Methyl chloride	11	46	0.0049	-	NA	NA	NA	NA	NA	NA	NA
Methyl ethyl ketone	2,700	19,000	0.12	-	NA	NA	NA	NA	NA	NA	NA
Methyl isobutyl ketone	3,300	14,000	0.14	-	NA	NA	NA	NA	NA	NA	NA
Methyl Tertbutyl Ether	47	210	0.0032	-	NA	NA	NA	NA	NA	NA	NA
Methylene chloride	35	320	0.0027	-	NA	NA	NA	NA	NA	NA	NA
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	NA	NA	NA	NA
n-Butylbenzene	390	5,800	0.32	-	NA	NA	NA	NA	NA	NA	NA
Ortho Xylene	65	280	0.019	-	NA	NA	NA	NA	NA	NA	NA
p-Chlorotoluene	160	2,300	0.024	-	NA	NA	NA	NA	NA	NA	NA
Propylbenzene	380	2,400	0.12	-	NA	NA	NA	NA	NA	NA	NA
sec-Butylbenzene	780	12,000	0.59	-	NA	NA	NA	NA	NA	NA	NA
Styrene	600	3,500	0.13	-	NA	NA	NA	NA	NA	NA	NA
Tert Butyl Alcohol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	780	12,000	0.16	-	NA	NA	NA	NA	NA	NA	NA
Tetrachloroethene	8.1	39	0.0018	-	NA	NA	NA	NA	NA	NA	NA
Toluene	490	4,700	0.076	-	NA	NA	NA	NA	NA	NA	NA
Trans-1,2-Dichloroethene	160	2,300	0.011	-	NA	NA	NA	NA	NA	NA	NA
Trans-1,3-Dichloropropene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
Trichloroethene	0.41	1.9	0.0001	-	NA	NA	NA	NA	NA	NA	NA
Trichlorofluoromethane	2,300	35,000	0.33	-	NA	NA	NA	NA	NA	NA	NA
Vinyl chloride	0.059	1.7	0.0000065	-	NA	NA	NA	NA	NA	NA	NA
TIC VOCs (µg/kg)											
Total TIC VOCs					NA	NA	NA	NA	NA	NA	NA
Semivolatile Organic Compounds (mg/kg)											
1,2,4-Trichlorobenzene	5.8	26	0.0012	-	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	180	930	0.03	-	NA	NA	NA	NA	NA	NA	NA
1,2-Diphenylhydrazine	0.68	2.9	0.00025	-	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	2.6	11	0.00046	-	NA	NA	NA	NA	NA	NA	NA
2,4,5-Trichlorophenol	630	8,200	0.4	-	NA	NA	NA	NA	NA	NA	NA
2,4,6-Trichlorophenol	6.3	82	0.0012	-	NA	NA	NA	NA	NA	NA	NA
2,4-Dichlorophenol	19	250	0.0023	-	NA	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	130	1,600	0.042	-	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrophenol	13	160	0.0044	-	NA	NA	NA	NA	NA	NA	NA
2,4-Dinitrotoluene	1.7	7.4	0.00032	-	NA	NA	NA	NA	NA	NA	NA

TABLE 8
SOIL SAMPLING RESULTS - COMPARISON TO USEPA Regional Screening Levels FTMM-08 Boring-10
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)	Weston 1995 Background (Main Post)	FTMM08-B10-SB-13			FTMM08-B10-SB-14		
	Sample ID	Sample Date			FTMM-08-B10-SB-13-2.5-3.0	FTMM-08-B10-SB-13-6.0-6.5	FTMM-08-B10-SB-13-9.0-9.5	FTMM-08-B10-SB-14-2.5-3	FTMM-08-B10-SB-14-6.0-6.5	FTMM-08-B10-SB-14-9.0-9.5
					5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018
2,6-Dinitrotoluene	0.36	1.5	0.000067	-	NA	NA	NA	NA	NA	NA
2-Chloronaphthalene	480	6,000	0.39	-	NA	NA	NA	NA	NA	NA
2-Chlorophenol	39	580	0.0089	-	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	24	300	0.019	-	NA	NA	NA	NA	NA	NA
2-Methylphenol	320	4,100	0.075	-	NA	NA	NA	NA	NA	NA
2-Nitroaniline	63	800	0.008	-	NA	NA	NA	NA	NA	NA
2-Nitrophenol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
3,3'-Dichlorobenzidine	1.2	5.1	0.00082	-	NA	NA	NA	NA	NA	NA
3-Nitroaniline	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
4,6-Dinitro-2-methylphenol	0.51	6.6	0.00026	-	NA	NA	NA	NA	NA	NA
4-Bromophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
4-Chloro-3-methylphenol	630	8,200	0.17	-	NA	NA	NA	NA	NA	NA
4-Chloroaniline	2.7	11	0.00016	-	NA	NA	NA	NA	NA	NA
4-Chlorophenyl phenyl ether	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
4-Nitroaniline	25	110	0.0016	-	NA	NA	NA	NA	NA	NA
4-Nitrophenol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Acenaphthene	360	4,500	0.55	-	NA	NA	NA	NA	NA	NA
Acenaphthylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Anthracene	1,800	23,000	5.8	-	NA	NA	NA	NA	NA	NA
Benzo(a)anthracene	1.1	21	0.011	-	NA	NA	NA	NA	NA	NA
Benzo(a)pyrene	0.11	2.1	0.029	-	NA	NA	NA	NA	NA	NA
Benzo(b)fluoranthene	1.1	21	0.3	-	NA	NA	NA	NA	NA	NA
Benzo(ghi)perylene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Benzo(k)fluoranthene	11	210	2.9	-	NA	NA	NA	NA	NA	NA
Benzoic Acid	25,000	330,000	1.5	-	NA	NA	NA	NA	NA	NA
Benzyl alcohol	630	8,200	0.048	-	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethoxy)methane	19	250	0.0013	-	NA	NA	NA	NA	NA	NA
Bis(2-Chloroethyl)ether	0.23	1	0.0000036	-	NA	NA	NA	NA	NA	NA
Bis(2-Chloroisopropyl)ether	310	4,700	0.026	-	NA	NA	NA	NA	NA	NA
Bis(2-Ethylhexyl)phthalate	39	160	1.3	-	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	290	1,200	0.24	-	NA	NA	NA	NA	NA	NA
Carbazole	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Chrysene	110	2,100	9	-	NA	NA	NA	NA	NA	NA
Cresol	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Dibenz(a,h)anthracene	0.11	2.1	0.096	-	NA	NA	NA	NA	NA	NA
Dibenzofuran	7.3	100	0.015	-	NA	NA	NA	NA	NA	NA
Diethyl phthalate	5,100	66,000	0.61	-	NA	NA	NA	NA	NA	NA
Dimethyl phthalate	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	630	8,200	0.23	-	NA	NA	NA	NA	NA	NA
Di-n-octylphthalate	63	820	5.7	-	NA	NA	NA	NA	NA	NA
Fluoranthene	240	3,000	8.9	-	NA	NA	NA	NA	NA	NA
Fluorene	240	3,000	0.54	-	NA	NA	NA	NA	NA	NA
Hexachlorobenzene	0.21	0.96	0.00012	-	NA	NA	NA	NA	NA	NA
Hexachlorobutadiene	1.2	5.3	0.00027	-	NA	NA	NA	NA	NA	NA
Hexachlorocyclopentadiene	0.18	0.75	0.00013	-	NA	NA	NA	NA	NA	NA
Hexachloroethane	1.8	8	0.0002	-	NA	NA	NA	NA	NA	NA
Indeno(1,2,3-cd)pyrene	1.1	21	0.98	-	NA	NA	NA	NA	NA	NA
Isophorone	570	2,400	0.026	-	NA	NA	NA	NA	NA	NA
Naphthalene	3.8	17	0.00054	-	NA	NA	NA	NA	NA	NA
Nitrobenzene	5.1	22	0.000092	-	NA	NA	NA	NA	NA	NA
N-Nitrosodimethylamine	0.002	0.034	0.000000027	-	NA	NA	NA	NA	NA	NA
N-Nitroso-di-n-propylamine	0.078	0.33	0.00000081	-	NA	NA	NA	NA	NA	NA
N-Nitrosodiphenylamine	110	470	0.067	-	NA	NA	NA	NA	NA	NA
Pentachlorophenol	1	4	0.000057	-	NA	NA	NA	NA	NA	NA
Phenanthrene	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Phenol	1,900	25,000	0.33	-	NA	NA	NA	NA	NA	NA
Pyrene	180	2,300	1.3	-	NA	NA	NA	NA	NA	NA
TIC SVOCs (mg/kg)										
Total TIC SVOCs	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Extractable/Volatile Petroleum Hydrocarbons (mg/kg)										
C10-C12 Aromatics	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
C12-C16 Aliphatics	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
C12-C16 Aromatics	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
C16-C21 Aliphatics	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
C16-C21 Aromatics	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
C21-C36 Aromatics	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
C21-C40 Aliphatics	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
C9-C12 Aliphatics	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Total Aliphatics	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Total Aromatics	NLE	NLE	NLE	-	NA	NA	NA	NA	NA	NA
Total EPH	SS	SS	SS	-	NA	NA	NA	NA	NA	NA
PCBs (mg/kg)										
Aroclor-1016	0.41	5.1	0.013	-	< 0.03	< 0.032	< 0.032	< 0.028	< 0.034	< 0.031
Aroclor-1221	0.2	0.83	0.00008	-	< 0.03	< 0.032	< 0.032	< 0.028	< 0.034	< 0.031
Aroclor-1232	0.17	0.72	0.00008	-	< 0.03	< 0.032	< 0.032	< 0.028	< 0.034	< 0.031
Aroclor-1242	0.23	0.95	0.0012	-	< 0.03	< 0.032	< 0.032	< 0.028	< 0.034	< 0.031
Aroclor-1248	0.23	0.95	0.0012	-	< 0.03	< 0.032	< 0.032	< 0.028	< 0.034	< 0.031
Aroclor-1254	0.12	0.97	0.002	-	< 0.03	< 0.032	< 0.032	< 0.028	< 0.034	< 0.031
Aroclor-1260	0.24	0.99	0.0055	-	< 0.03	< 0.032	< 0.032	< 0.028	< 0.034	< 0.031

TABLE 8
SOIL SAMPLING RESULTS - COMPARISON TO USEPA Regional Screening Levels FTMM-08 Boring-10
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)	Weston 1995 Background (Main Post)	FTMM08-B10-SB-13			FTMM08-B10-SB-14		
Sample ID	(HQ=0.1)	(HQ=0.1)	(HQ=0.1)	(Main Post)	FTMM-08-B10-SB-13-2.5-3.0	FTMM-08-B10-SB-13-6.0-6.5	FTMM-08-B10-SB-13-9.0-9.5	FTMM-08-B10-SB-14-2.5-3	FTMM-08-B10-SB-14-6.0-6.5	FTMM-08-B10-SB-14-9.0-9.5
Sample Date					5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018	5/17/2018
Aroclor-1268	NLE	NLE	NLE	-	< 0.03	< 0.032	< 0.032	< 0.028	< 0.034	< 0.031
Total PCBs	NLE	NLE	NLE	-	< 0.27	< 0.29	< 0.28	< 0.25	< 0.31	< 0.28
Inorganics (mg/kg)										
Aluminum	7,700	110,000	3,000	15,200	NA	NA	NA	NA	NA	NA
Antimony	3.1	47	0.035	ND	NA	NA	NA	NA	NA	NA
Arsenic	0.68	3	0.0015	22.9	NA	NA	NA	NA	NA	NA
Barium	1,500	22,000	16	32.3	NA	NA	NA	NA	NA	NA
Beryllium	16	230	1.9	2	NA	NA	NA	NA	NA	NA
Cadmium	7.1	98	0.069	ND	NA	NA	NA	NA	NA	NA
Calcium	NLE	NLE	NLE	921	NA	NA	NA	NA	NA	NA
Chromium	12,000	180,000	4,000,000	269	NA	NA	NA	NA	NA	NA
Cobalt	2.3	35	0.027	2.5	NA	NA	NA	NA	NA	NA
Copper	310	4,700	2.8	8	NA	NA	NA	NA	NA	NA
Iron	5,500	82,000	35	55,800	NA	NA	NA	NA	NA	NA
Lead	400	800	14	19.5	NA	NA	NA	NA	NA	NA
Magnesium	NLE	NLE	NLE	7,230	NA	NA	NA	NA	NA	NA
Manganese	180	2,600	2.8	90.7	NA	NA	NA	NA	NA	NA
Mercury	1.1	4.6	0.0033	ND	NA	NA	NA	NA	NA	NA
Molybdenum	39	580	0.2	ND	NA	NA	NA	NA	NA	NA
Nickel	150	2,200	2.6	8.4	NA	NA	NA	NA	NA	NA
Potassium	NLE	NLE	NLE	15,400	NA	NA	NA	NA	NA	NA
Selenium	39	580	0.052	1.9	NA	NA	NA	NA	NA	NA
Silver	39	580	0.08	1.1	NA	NA	NA	NA	NA	NA
Sodium	NLE	NLE	NLE	51.6	NA	NA	NA	NA	NA	NA
Strontium	4,700	70,000	42	ND	NA	NA	NA	NA	NA	NA
Thallium	0.078	1.2	0.0014	ND	NA	NA	NA	NA	NA	NA
Tin	4,700	70,000	300	ND	NA	NA	NA	NA	NA	NA
Titanium	NLE	NLE	NLE	ND	NA	NA	NA	NA	NA	NA
Vanadium	39	580	8.6	94.1	NA	NA	NA	NA	NA	NA
Zinc	2,300	35,000	37	81.4	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 detection
- 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 concentration 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.

a) DELETE THIS NOTE BEFORE GOING FINAL: Refer to the NJDEP Protocol for Addressing Extractable Petroleum Hydrocarbons (Version 5.0, August 9, 2010) and the NJDEP Health Based and Ecological Screening Criteria for Petroleum Hydrocarbons (Version 4.0, August 9, 2010) to determine the category of tank being investigated and the appropriate cleanup standards or screening levels for that category of tank.

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 Style values represent a result that is above the Weston 1995 Background (Main Post).

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

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

- Cell Shade values represent a result that is above both the 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.

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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>

- The Weston 1995 Background (Main Post) refers to the FTMM reports.

NA

TABLE 9
SOIL SAMPLING SUMMARY OF USEPA RSL Exceedances
FTMM08 M-8 Landfill
FORT MONMOUTH, NEW JERSEY

Analyte	Maximum Detected Concentration	Location of Maximum Concentration	Sample Date	Number of Samples	Number of Detections	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)		Weston 1995 Background (Main Post)			
						Action Level	Num of Detects Above Standard-1	Action Level	Num of Detects Above Standard-2	Action Level	Num of Detects Above Standard-3	Action Level	Num of Detects Above Standard-4		
Volatile Organic Compounds (mg/kg)															
1,2,4-Trimethylbenzene	7.1	J	FTMM08-B10-SB-04	11/20/2017	5	4	30	0	180	0	0.0081	3	-	n/a	
1,2-Dichlorobenzene	0.057	J	FTMM08-B10-SB-04	11/20/2017	5	3	180	0	930	0	0.03	1	-	n/a	
1,3,5-Trimethylbenzene	1.1	J	FTMM08-B10-SB-04	11/20/2017	5	2	27	0	150	0	0.0087	1	-	n/a	
1,4-Dichlorobenzene	0.0093	J	FTMM08-B10-SB-04	11/20/2017	5	2	2.6	0	11	0	0.00046	2	-	n/a	
Benzene	0.0004	J	FTMM08-B10-SB-04	11/20/2017	5	1	1.2	0	5.1	0	0.00023	1	-	n/a	
Isopropylbenzene	0.5	J	FTMM08-B10-SB-04	11/20/2017	5	4	190	0	990	0	0.074	1	-	n/a	
Naphthalene	0.007	J	FTMM08-B10-SB-04	11/20/2017	5	4	3.8	0	17	0	0.00054	3	-	n/a	
Propylbenzene	1.2	J	FTMM08-B10-SB-04	11/20/2017	5	4	380	0	2,400	0	0.12	1	-	n/a	
sec-Butylbenzene	0.91	J	FTMM08-B10-SB-04	11/20/2017	5	4	780	0	12,000	0	0.59	1	-	n/a	
TIC VOCs (µg/kg)															
Nonane	96	JN	FTMM08-B10-SB-02	11/20/2017	1	1	1,100	0	7,200	0	7.5	1	-	n/a	
Semivolatile Organic Compounds (mg/kg)															
1,2-Dichlorobenzene	0.053	J	FTMM08-B10-SB-04	11/20/2017	5	1	180	0	930	0	0.03	1	-	n/a	
2,4-Dimethylphenol	0.14	J	FTMM08-B10-SB-01	11/20/2017	5	1	130	0	1,600	0	0.042	1	-	n/a	
2-Methylnaphthalene	1	J	FTMM08-B10-SB-04	11/20/2017	5	1	24	0	300	0	0.019	1	-	n/a	
Benzo(a)anthracene	0.068	J	FTMM08-B10-SB-04	11/20/2017	5	1	1.1	0	21	0	0.011	1	-	n/a	
Dibenzofuran	0.051	J	FTMM08-B10-SB-04	11/20/2017	5	1	7.3	0	100	0	0.015	1	-	n/a	
Naphthalene	0.017	J	FTMM08-B10-SB-01	11/20/2017	5	1	3.8	0	17	0	0.00054	1	-	n/a	
TIC SVOCs (mg/kg) (None Above Standard)															
Extractable/Volatile Petroleum Hydrocarbons (mg/kg) (None Above Standard)															
PCBs (mg/kg)															
Aroclor-1248	0.04		FTMM08-B10-SB-02	11/20/2017	37	1	0.23	0	0.95	0	0.0012	1	-	n/a	
Aroclor-1254	0.23	J	FTMM08-B10-SB-04	11/20/2017	37	8	0.12	2	0.97	0	0.002	8	-	n/a	
Aroclor-1260	0.22	J	FTMM08-B10-SB-04	11/20/2017	37	6	0.24	0	0.99	0	0.0055	6	-	n/a	
Inorganics (mg/kg)															
Aluminum	8,230		FTMM08-B10-SB-04	11/20/2017	5	5	7,700	1	110,000	0	3,000	4	15,200	0	
Arsenic	16.6		FTMM08-B10-SB-04	11/20/2017	5	5	0.68	5	3	5	0.0015	5	22.9	0	
Barium	20.5		FTMM08-B10-SB-04	11/20/2017	5	5	1,500	0	22,000	0	16	2	32.3	0	
Cadmium	0.98		FTMM08-B10-SB-02	11/20/2017	5	2	7.1	0	98	0	0.069	2	ND	2	
Cobalt	3.7		FTMM08-B10-SB-04	11/20/2017	5	4	2.3	2	35	0	0.027	4	2.5	1	
Copper	5		FTMM08-B10-SB-01	11/20/2017	5	5	310	0	4,700	0	2.8	2	8	0	
Iron	39,000		FTMM08-B10-SB-04	11/20/2017	5	5	5,500	5	82,000	0	35	5	55,800	0	
Manganese	18.1		FTMM08-B10-SB-02	11/20/2017	5	5	180	0	2,600	0	2.8	5	90.7	0	
Mercury	0.053	J	FTMM08-B10-SB-08	5/17/2018	5	1	1.1	0	4.6	0	0.0033	1	ND	1	
Molybdenum	0.57	J	FTMM08-B10-SB-04	11/20/2017	4	1	39	0	580	0	0.2	1	ND	1	
Nickel	8.4	J	FTMM08-B10-SB-04	11/20/2017	5	5	150	0	2,200	0	2.6	4	8.4	0	
Selenium	1.1	J	FTMM08-B10-SB-04	11/20/2017	5	2	39	0	580	0	0.052	2	1.9	0	
Sodium	936		FTMM08-B10-SB-01	11/20/2017	5	5	NLE	NLE	NLE	NLE	NLE	NLE	51.6	4	
Strontium	8		FTMM08-B10-SB-04	11/20/2017	4	4	4,700	0	70,000	0	42	0	ND	4	
Tin	1.2	J	FTMM08-B10-SB-02	11/20/2017	4	1	4,700	0	70,000	0	300	0	ND	1	
Titanium	64.4		FTMM08-B10-SB-04	11/20/2017	4	4	NLE	NLE	NLE	NLE	NLE	NLE	ND	4	
Vanadium	41.9		FTMM08-B10-SB-04	11/20/2017	5	5	39	1	580	0	8.6	5	94.1	0	
Zinc	191		FTMM08-B10-SB-02	11/20/2017	5	5	2,300	0	35,000	0	37	4	81.4	1	
Wet Chemistry - Moisture (None Above Standard)															

1) Summary Statistics presents only results that were above (at least one) standard and were obtained from Summary Statistics Sheet.

Table 10
FTMM-08 Boring 10 - EPH Calculator

COMPOSITION-SPECIFIC EXTRACTABLE PETROLEUM HYDROCARBON (EPH) SOIL REMEDIATION CRITERION (SRC) CALCULATOR FOR NON-#2 FUEL OIL/DIESEL OIL PETROLEUM HYDROCARBON MIXTURES (Version 3.0, October 18, 2017)						
DATA ENTRY CELLS ENTER ALL CONCENTRATIONS AS MILLIGRAMS/KILOGRAM (mg/kg) FOR NON DETECT VALUES, ENTER "0" or "ND" (without the quotation marks) REMEMBER TO ENTER ACTUAL SAMPLE IDENTIFICATION IN PLACE OF "SAMPLE 1", ETC. REMEMBER TO INDICATE WHETHER THE SAMPLE IS "RESIDENTIAL" (R) OR "NON-RESIDENTIAL" (N) [OR USE DROP-DOWN LIST] ALL DATA MUST BE ENTERED FOR EACH SAMPLE FOR THE EPH CRITERION TO BE CALCULATED CLICK ON THE "CALCULATE EPH SRC" BUTTON TO CALCULATE THE SAMPLE-SPECIFIC EPH SOIL REMEDIATION CRITERION IF YOU CHANGE ANY INPUT DATA, YOU MUST CLICK ON "CALCULATE EPH SRC" AGAIN TO RECALCULATE THE SOIL REMEDIATION CRITERION IF THE RESULTS FROM THE GC ANALYSIS INDICATE AN EPH CONCENTRATION LESS THAN 1,700 mg/kg, IT IS NOT NECESSARY TO USE THIS CALCULATOR						
EC* RANGE / SAMPLE ID	FTMM-08-B10-SB01 (1.5-2)	FTMM-08-B10-SB-01 (2.5-3)	FTMM-08-B10-SB-01 (2.5-3 DUP)	FTMM-08-B10-SB-02 (6-6.5)	FTMM-08-B10-SB-04 (2.5-3)	
Enter Residential or Non-Residential	Residential	Residential	Residential	Residential	Residential	
ALIPHATICS	EC9-EC12	0.0	11.1	2.3	17.9	4.7
	EC12-EC16	15.3	102.0	49.6	21.1	114.0
	EC16-EC21	265.0	2,220.0	1,490.0	910.0	1,320.0
	EC21-EC40	1,700.0	8,350.0	7,200.0	7,290.0	7,010.0
AROMATICS	EC10-EC12	0.0	0.0	0.0	0.0	2.2
	EC12-EC16	0.6	0.7	1.1	1.6	6.8
	EC16-EC21	78.9	119.0	377.0	280.0	406.0
	EC21-EC36	553.0	372.0	3,210.0	3,070.0	1,420.0
Total Concentration (mg/kg)		2,612.8	11,174.8	12,330.0	11,590.6	10,283.7
Calculated EPH SRC [#] (mg/kg)		6,800	29,000	5,700	5,700	8,900
Allowable [%] EPH SRC (mg/kg)		6,800	17,000 [^]	5,700	5,700	8,900
ABOVE/BELOW ALLOWABLE EPH SRC (i.e., PASS or FAIL)		BELOW (PASS)	BELOW (PASS)	ABOVE (FAIL)	ABOVE (FAIL)	ABOVE (FAIL)

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr style="background-color: #ffffcc;"> <td>* = Equivalent Carbon</td> </tr> <tr style="background-color: #ffffcc;"> <td># = Soil Remediation Criterion</td> </tr> <tr style="background-color: #ffffcc;"> <td>% = Accounts for residual product</td> </tr> <tr style="background-color: #ccccff;"> <td>17,000[^] = Default maximum value for all non-#2 fuel oil/diesel oil petroleum hydrocarbon mixtures</td> </tr> </table>	* = Equivalent Carbon	# = Soil Remediation Criterion	% = Accounts for residual product	17,000 [^] = Default maximum value for all non-#2 fuel oil/diesel oil petroleum hydrocarbon mixtures	Calculate EPH SRC Reset Data	Print Results Instructions	Intro Message Run Date = 10/09/2018
* = Equivalent Carbon							
# = Soil Remediation Criterion							
% = Accounts for residual product							
17,000 [^] = Default maximum value for all non-#2 fuel oil/diesel oil petroleum hydrocarbon mixtures							

Attachment A
Soil Boring Logs and Well Construction Details

Boring 10 Log

LANDFILL DELINEATION PROJECT LOG

SUBSURFACE EVALUATOR: Harold Hornung
EQUIPMENT OPERATOR: Harold Hornung
DATE: 02/23/09
LANDFILL: M8 BORING ID: 10

BORING DESCRIPTION

LANDFILL MATERIAL PRESENT: YES NO X
DESCRIBE : _____

NATURAL MATERIAL PRESENT: YES X NO
DESCRIBE: 0-2' BGS brown, silty sand. 2'-6' BGS gray-blue sand with strong petroleum odor and MultiRae readings of 5 units above BG on the VOCs. 6'-8' BGS silty, clay with petroleum odor, GW encountered at 3.5' BGS, sheen observed on water.

GPS POSITIONS

Y COORDINATE (NORTHING): 540333.64 X COORDINATE (EASTING): 618244.76

BORING PHOTOGRAPHED: YES X NO

PHOTOGRAPH IDENTIFICATION: 1440 1440

NOTES: Map color code = green

SUBSURFACE EVALUATOR SIGNATURE: _____

Soil Boring Log

CLIENT: USACE					INSPECTOR: <u>EW/JM</u>		BORING/WELL ID: <u>PAE-44-SB-08</u>	
PROJECT NAME: FTMM - ECP					DRILLER: <u>JOE GARNAK</u>		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER: <u>60°</u>		<u>Parcel 49</u>	
PROJECT NUMBER: 748810-					CONTRACTOR: East Coast Drilling, Inc. (ECDI)			
GROUNDWATER OBSERVATIONS					RIG TYPE: <u>Geoprobe(R) 7822DT</u>		LOCATION PLAN	
WATER LEVEL: <u>N/A</u>					DATE/TIME START: <u>3/30/16 10</u>		Oceanport, New Jersey	
DATE: <u> </u>					DATE/TIME FINISH: <u>3/30/16</u>			
TIME: <u> </u>					WEIGHT OF HAMMER: <u>N/A</u>			
MEAS. FROM: <u> </u>					DROP OF HAMMER: <u>N/A</u>			
TYPE OF HAMMER: <u>N/A</u>								
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
<u>0</u>			<u>60/33</u>		<u>0-4" Asphalt / Rock</u>			
<u>0.5-1</u>					<u>4"-16" moist, loose, Brown, mf SAND, trace silt, trace f gravel</u>	<u>II</u>		
<u>1-1.5</u>					<u>16"-33" moist, dense, gray/brown, mf SAND, some silt</u>			
<u>2-2.5</u>								
<u>3</u>								
<u>4</u>								
<u>5</u>					<u>end of boring @ 5'</u>			
<u>6</u>								
<u>7</u>								
<u>8</u>								
<u>9</u>								
<u>0</u>								
Remarks:								
Sample Types				Consistency vs. Blowcount / Foot				
S - Split-Spoon				Granular (Sand & Gravel)				
U - Undisturbed Tube				Fine Grained (Silt & Clay)				
C - Rock Core				V. Loose: 0-4 Dense: 30-50 V. Soft <2 Stiff: 8-15				
A - Auger Cuttings				Loose: 4-10 V. Dense: >50 Soft 2-4 V. Stiff: 15-30				
				M. Dense: 10-30 M. Stiff: 4-8 Hard: >30				
				and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation				

Soil Boring Log

CLIENT: USACE					INSPECTOR: <u>Tom Horn</u>		BORING/WELL ID: <u>FTMM-08-B-10-SB-01</u>	
PROJECT NAME: FTMM - ECP					DRILLER: <u>ECDI WMS RENT</u>		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER: <u>clear, 40°F WINDY</u>		<u>RIP-RAP ON RIVER BANK</u>	
PROJECT NUMBER: 748810-					CONTRACTOR: <u>East Coast Drilling, Inc. (ECDI)</u>		LOCATION PLAN	
GROUNDWATER OBSERVATIONS					RIG TYPE: <u>Geoprobe(R) 7822DT</u>		Oceanport, New Jersey	
WATER LEVEL: <u>1.5</u>					DATE/TIME START: <u>11-20-17 / 1006</u>			
DATE: <u>11/20/17</u>					DATE/TIME FINISH: <u>11-20-17 / 1020</u>			
TIME: <u>1000</u>					WEIGHT OF HAMMER: <u>N/A</u>			
MEAS. FROM: <u>THW-01</u>					DROP OF HAMMER: <u>N/A</u>			
					TYPE OF HAMMER: <u>N/A</u>			

DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS
0				0.0	RIP RAP (1.5')		REMOVE RIP-RAP FOR HAND-AUGERING TO 6'-DEPTH
				0.0			
1				0.0	GEOTEXTILE FABRIC UNDER RIP-RAP		
	FTMM-08-B-10-SB-01-1.5-2			0.8	WET REDDISH - GRAY BROWN LOOSE SILTY SAND		1005
2				2.5			
	FTMM-08-B-10-SB-01-2.5-3			6.5	WET GRAY-TAN-BROWN LOOSE SILTY SAND		1010
3				6.4			
				3.1	WET DK-GREENISH OLIVE LOOSE SILTY SAND		
4				2.2			
				1.0	WET MOD DENSE GRAY-GREEN OLIVE-BROWN SILTY SAND		
5				1.0	WET, DENSE GRAY-GRN-BROWN GLTY SAND		
				1.0	WET V DENSE DK-GRN-GRN SILTY SAND		
6				0.2			
				0.1	WET V. DENSE BLIGHT-GRN-OLIVE-GREEN SILTY SAND SOME CLAY.		
7	FTMM-08-B-10-SB-01-7-7.5			0.0			1020
8					NOTE: Temporary well THW-01 screened from 0-6'		
9					Boring advanced w/ hand auger to depth		
10							

Remarks:

Sample Types	Consistency vs. Blowcount / Foot				
S - Split-Spoon	Granular (Sand & Gravel)		Fine Grained (Silt & Clay)		
U - Undisturbed Tube	V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15	and - 35-50%
C - Rock Core	Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 15-30	some - 20-35%
A - Auger Cuttings	M. Dense: 10-30		M. Stiff: 4-8	Hard: >30	little - 10-20%
					trace - <10%
					moisture, density, color, gradation

Soil Boring Log

CLIENT: USACE					INSPECTOR: <u>Tom NORN</u>		BORING/WELL ID: <u>FTMM-08-B-10-SB-02</u>	
PROJECT NAME: <u>FTMM - ECP</u>					DRILLER: <u>ECDI WILKS PERVE</u>		LOCATION DESCRIPTION	
PROJECT LOCATION: <u>FTMM Parcel</u>					WEATHER: <u>PARTLY CLOUDY, 37°F WINDY</u>		<u>ASPHALT</u>	
PROJECT NUMBER: <u>748810-</u>					CONTRACTOR: <u>East Coast Drilling, Inc. (ECDI)</u>			
GROUNDWATER OBSERVATIONS					RIG TYPE: <u>Geoprobe(R) 7822DT</u>		LOCATION PLAN	
WATER LEVEL: <u>7.5</u>					DATE/TIME START: <u>11-20-17 / 0850</u>		Oceanport, New Jersey	
DATE: <u>11/20/17</u>					DATE/TIME FINISH: <u>11-20-17 / 0915</u>			
TIME: <u>0900</u>					WEIGHT OF HAMMER: <u>N/A</u>			
MEAS. FROM: <u>TMW-02</u>					DROP OF HAMMER: <u>N/A</u>			
					TYPE OF HAMMER: <u>N/A</u>			

DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS
0			48/60	0.0	Dry black-gray (ASPHALT) F-C ANGLEWISE GRAVEL		
				0.0	Dry MOD DENSE GRAY-BROWN SILTY SAND		
1				0.0			
				0.0	MOIST LT OLIVE BROWN V STIFF SANDY SILT		
2				0.0			
				0.0			
3	FTMM-08-B-10-SB-03-3-3.5			0.0			0905
				0.0			
4							
5			48/60	0.0	SAA		
				0.0	MOIST ORANGE TAN BROWN DENSE SILTY SAND		0910
6	FTMM-08-B-10-SB-03-6-6.5			0.0			
				0.0			
7				5.3	WET MOD DENSE ORN - GRAY SILTY SAND		
				6.5	PLASTER-LIKE ODOR		
8				2.8			
				2.5			
9							
10	FTMM-08-B-10-SB-03-10-10.5						0915

Remarks:

Sample Types	Consistency vs. Blowcount / Foot		
S - Split-Spoon	Granular (Sand & Gravel)	Fine Grained (Silt & Clay)	
U - Undisturbed Tube	V. Loose: 0-4	Dense: 30-50	V. Soft: <2
C - Rock Core	Loose: 4-10	V. Dense: >50	Stiff: 8-15
A - Auger Cuttings	M. Dense: 10-30		V. Stiff: 15-30
			Hard: >30
			and - 35-50%
			some - 20-35%
			little - 10-20%
			trace - <10%
			moisture, density, color, gradation

TMW-02
SCREENED
FROM
2-12'

Soil Boring Log

CLIENT: USACE					INSPECTOR: <u>Tom HORN</u>		BORING/WELL ID: <u>PMW-08-B-10-SB-04</u>	
PROJECT NAME: <u>FTMM - ECP</u>					DRILLER: <u>ECDI Wells Rents</u>		LOCATION DESCRIPTION: <u>RIP-RAP ON RIVER BANK</u>	
PROJECT LOCATION: <u>FTMM Parcel</u>					WEATHER: <u>Clear, 45° Windy</u>			
PROJECT NUMBER: <u>748810-</u>					CONTRACTOR: <u>East Coast Drilling, Inc. (ECDI)</u>			
GROUNDWATER OBSERVATIONS					RIG TYPE: <u>Geoprobe(R) 7822DT</u>		LOCATION PLAN	
WATER LEVEL: <u>3.5</u>					DATE/TIME START: <u>11-20-17/11:20</u>		Oceanport, New Jersey	
DATE: <u>11/20/17</u>					DATE/TIME FINISH: <u>11-20-17/11:20</u>			
TIME: <u>12:15</u>					WEIGHT OF HAMMER: <u>N/A</u>			
MEAS. FROM: <u>TMW-04</u>					DROP OF HAMMER: <u>N/A</u>			
					TYPE OF HAMMER: <u>N/A</u>			
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
0				0.0	RIP RAP (1')			
				0.0	GEOTEXTILE FABRIC UNDER RIP-RAP			
* 1	FTMM-08-B10-SB-04-1-1.5			1.0	Dry, reddish brown loose silty sand		1140	
				1.0				
2				1.5	moist olive-dr gray stiff sandy silt			
	FTMM-08-B10-SB-04-2.5-3			95.6	WET LOOSE OLIVE-GREENISH-GRAY BROWN SILTY SAND		1145	
3				42.1	PETROLEUM - LIKE OIL			
				36.4				
4				27.8				
				25.0				
5				26.6	WET LT GRAY BROWN OLIVE-GRAY LOOSE SILTY SAND			
				24.3				
6				25.4				
* 7	FTMM-08-B10-SB-04-6.5-7			20.1			1150	
8								
9								
10								
Remarks:								
Sample Types					Consistency vs. Blowcount / Foot			
S - Split-Spoon					Granular (Sand & Gravel)			
U - Undisturbed Tube					Fine Grained (Silt & Clay)			
C - Rock Core					V. Loose: 0-4 Dense: 30-50 V. Soft: <2 Stiff: 8-15			
A - Auger Cuttings					Loose: 4-10 V. Dense: >50 Soft: 2-4 V. Stiff: 15-30			
					M. Dense: 10-30 M. Stiff: 4-8 Hard: >30			
					and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation			

NOTE: Boring was run with TMW-04
SCREENED FROM 0-6'
Boring advanced w/ hand auger
to depth

Soil Boring Log

CLIENT: USACE					INSPECTOR: <u>F. ACCORSI</u>		BORING/WELL ID: <u>MW-01</u>	
PROJECT NAME: FTMM - ECP					DRILLER: <u>J. BARNEK</u>		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM ⁰⁸ -BIO AREA					WEATHER: <u>60's, RAIN</u>			
PROJECT NUMBER: 748810-					CONTRACTOR: <u>East Coast Drilling, Inc. (ECDI)</u>			
GROUNDWATER OBSERVATIONS					RIG TYPE: <u>Geoprobe(R) 7822DT</u>		LOCATION PLAN	
WATER LEVEL: <u>~ 6'</u>					DATE/TIME START: <u>5-16-18 0830</u>		Oceanport, New Jersey	
DATE:					DATE/TIME FINISH: <u>5-16-18 1100</u>			
TIME:					WEIGHT OF HAMMER: <u>N/A</u>			
MEAS. FROM:					DROP OF HAMMER: <u>N/A</u>			
					TYPE OF HAMMER: <u>N/A</u>			
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
0			60/42	1	ASPHALT + STONE			
				2	moist, or. brn MP SAND, L. silt			
1				2	moist, yel. brn sandy Silty Clay			
				4	moist, yel. brn f. SAND, and silt			
2				2				
	FTMM-08-BIO- SB-05-2.5-3			2				
3				2				
4								
5			60/54	1	SAND			
				2				
6				0			V WET @ 6'	
	FTMM-08-BIO- SB-05-5.5-6			0				
7				6				
				0	WET, or. brn, cmf SAND, L. silt			
8				0	L.f. Gravel			
				0				
9	FTMM-08-BIO- SB-05-9-9.5			0				
10					END OF BORING @ 10 FT			
Remarks: <u>INSTALL MW-01: SCREEN FROM 3' TO 13', CASING: GROUND SURFACE TO 3'</u> <u>SEE WELL CONSTRUCTION LOG.</u>								
Sample Types					Consistency vs. Blowcount / Foot			
S - Split-Spoon					Granular (Sand & Gravel)			
U - Undisturbed Tube					Fine Grained (Silt & Clay)			
C - Rock Core					V. Loose: 0-4 Dense: 30-50 V. Soft: <2 Stiff: 8-15			
A - Auger Cuttings					Loose: 4-10 V. Dense: >50 Soft: 2-4 V. Stiff: 15-30			
					M. Dense: 10-30 M. Stiff: 4-8 Hard: > 30			
					end - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation			

Soil Boring Log

CLIENT: USACE					INSPECTOR: <u>Kevin McMulle</u>		BORING/WELL ID: <u>FTMM-08-B10-SB-06</u>	
PROJECT NAME: FTMM - ECP					DRILLER: <u>Joe</u>		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER: <u>Low 60's / Rain</u>		<u>Grass Surface</u>	
PROJECT NUMBER: 748810-					CONTRACTOR: <u>East Coast Drilling, Inc. (ECDI)</u>		LOCATION PLAN	
GROUNDWATER OBSERVATIONS					RIG TYPE: <u>Geoprobe(R) 7822DT</u>		Oceanport, New Jersey	
WATER LEVEL:					DATE/TIME START: <u>5-17-18 / 0900</u>			
DATE:					DATE/TIME FINISH: <u>5-17-18 / 0910</u>			
TIME:					WEIGHT OF HAMMER: <u>N/A</u>			
MEAS. FROM:					DROP OF HAMMER: <u>N/A</u>			
TYPE OF HAMMER: <u>N/A</u>								

DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS
0				0	0-6" - Moist, Medium, B.M., F.M., SAND		
1				0	6"-42" - Moist, Medium, B.M. - light B.M., F.M. SAND, Trace Fine Gravel		
2				0	42"-60" - NR		
3	<u>FTMM-08-B10 SB-06-2.5-3</u>			0			<u>FTMM-08-B10 SB-06-6.0-6.5</u>
4				0			on Hold for VOCs, SVOCs, TAL Metals
5			4 1/10	0	0-12" - Moist, Medium, B.M. Green Hue, F-C, Silty SAND, little Glauconite		<u>0-60" by</u>
6	<u>FTMM-08-B10 SB-06-6.6-6.5</u>			0	12"-54" - Very, Medium, B.M. with Green Hue, F-M Silty SAND, little Clay, little F.M. Gravel		
7				0	54"-60" - NR		
8				0	BOR @ 10' bor		
9	<u>FTMM-08-B10 SB-06-9.4-9.5</u>		5 1/10	0	Boring backfilled with Seal currtan		
10							

Remarks: Soil cuttings used to backfill boring. Soil Samples screened with PID
 *Indicates Soil Sample for Chemical Analysis. *Indicates Soil Sample on HOLD

Sample Types	Consistency vs. Blowcount / Foot				
S - Split-Spoon	Granular (Sand & Gravel)		Fine Grained (Silt & Clay)		and - 35-50%
U - Undisturbed Tube	V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15	some - 20-35%
C - Rock Core	Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 15-30	little - 10-20%
A - Auger Cuttings	M. Dense: 10-30		M. Stiff: 4-8	Hard: > 30	trace - <10%
					moisture, density, color, gradation

Soil Boring Log

CLIENT: USACE PROJECT NAME: FTMM - ECP PROJECT LOCATION: FTMM Parcel PROJECT NUMBER: 748810-					INSPECTOR: <u>F. ACCORSI</u> DRILLER: <u>T. BARNER</u> WEATHER: <u>60's, RAIN</u> CONTRACTOR: East Coast Drilling, Inc. (ECDI)		BORING/WELL ID: <u>FTMM-08-B10-SB-07</u> LOCATION DESCRIPTION LOCATION PLAN Oceanport, New Jersey	
GROUNDWATER OBSERVATIONS WATER LEVEL: _____ DATE: _____ TIME: _____ MEAS. FROM: _____					RIG TYPE: <u>Geoprobe(R) 7822DT</u> DATE/TIME START: <u>5-16-18 1420</u> DATE/TIME FINISH: <u>5-16-18 1515</u> WEIGHT OF HAMMER: <u>N/A</u> DROP OF HAMMER: <u>N/A</u> TYPE OF HAMMER: <u>N/A</u>			
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
0			60/42		ASPHALT + STONE 6 in.			
				0	MOIST, OR. BRN-BRN, CMP SAND + silt			
1				0				
				0				
2				0				
	FTMM-08-B10- SB-07-2.5-3			0.5				
3				0				
4								
5			60/54	0	SAME			
				0				
6				0	WET BLK f SAND, and silt		WET @ 6'	
	FTMM-08-B10- SB-07-6-6.5			0				
7				0				
				0				
8				0				
				0				
9	FTMM-08-B10- SB-07-9-9.5			0				
10					END OF BORING @ 10 FT.			
Remarks:								
Sample Types				Consistency vs. Blowcount / Foot				
S - Split-Spoon				Granular (Sand & Gravel)				
U - Undisturbed Tube				Fine Grained (Silt & Clay)				
C - Rock Core				V. Loose: 0-4 Dense: 30-50 V. Soft: <2 Stiff: 8-15				
A - Auger Cuttings				Loose: 4-10 V. Dense: >50 Soft: 2-4 V. Stiff: 15-30				
				M. Dense: 10-30 M. Stiff: 4-8 Hard: > 30				
				end - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation				

Soil Boring Log

CLIENT: USACE					INSPECTOR: <u>Karin McAllister</u>		BORING/WELL ID: <u>FTM-08-B10-SB-08</u>	
PROJECT NAME: FTMM - ECP					DRILLER: <u>Joe</u>		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER: <u>Low 60's / Rain</u>		<u>Asphalt Surface</u>	
PROJECT NUMBER: 748810-					CONTRACTOR: East Coast Drilling, Inc. (ECDI)			
GROUNDWATER OBSERVATIONS					RIG TYPE: Geoprobe(R) 7822DT		LOCATION PLAN	
WATER LEVEL: _____					DATE/TIME START: <u>5-17-18 / 0802</u>		Oceanport, New Jersey	
DATE: _____					DATE/TIME FINISH: <u>5-17-18 / 0810</u>			
TIME: _____					WEIGHT OF HAMMER: <u>N/A</u>			
MEAS. FROM: _____					DROP OF HAMMER: <u>N/A</u>			
					TYPE OF HAMMER: <u>N/A</u>			
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
0				0	0-6" - Asphalt			
1				0	6-48" - Moist, M. Dense, light Brn F-M, Silty SAND, Trace F.			
2				0	Sub angular gravel			
3	<u>FTM-08-B10-SB-08-2530</u>			0	<u>48-60" - NR</u>		<u>FTM-08-B10-SB-08-60-65</u> <u>Fractured EPA</u> <u>and Traces</u> <u>Placed on Hdd</u> <u>for vocs, Svocs, +</u> <u>TAL Metals</u>	
4				0				
5			<u>4 1/2</u>	0	60"-24" - Moist, Md dense, light Brn F-M, Silty SAND, little clst		<u>▽ @ 6' bgs</u>	
6				0				
7	<u>FTM-08-B10-SB-08-60-65</u>			0	24"-54" - Wet, Md dense, Brn, Red-Brn, Dk Brn, FC, SAND, little silt			
8				0	54"-60" - NR			
9				0	EOB @ 10' bgs			
10	<u>FTM-08-B10-SB-08-40-915</u>		<u>5 1/2</u>	0	Boring backfilled with Soil cuttings			
Remarks: Boring backfilled with soil cuttings. Soil Samples Screened with PID								
Indicates Soil Sample Run for chemical Analysis. Indicates Soil Samples Placed on hold								
Sample Types					Consistency vs. Blowcount / Foot			
S - Split-Spoon					Granular (Sand & Gravel)			
U - Undisturbed Tube					Fine Grained (Silt & Clay)			
C - Rock Core					V. Loose: 0-4 Dense: 30-50 V. Soft: <2 Stiff: 8-15			
A - Auger Cuttings					Loose: 4-10 V. Dense: >50 Soft: 2-4 V. Stiff: 15-30			
					M. Dense: 10-30 M. Stiff: 4-8 Hard: > 30			
					and - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation			

Soil Boring Log

CLIENT: USACE					INSPECTOR: <u>F. ACCORSI</u>		BORING/WELL ID: <u>FTMM-08-B10-SB-09</u>	
PROJECT NAME: <u>FTMM-08-B10 AREA</u>					DRILLER: <u>J. BARNEK</u>		LOCATION DESCRIPTION	
PROJECT LOCATION: <u>FTMM Parcel 08</u>					WEATHER: <u>60'S RAIN</u>			
PROJECT NUMBER: 748810-					CONTRACTOR: East Coast Drilling, Inc. (ECDI)			
GROUNDWATER OBSERVATIONS					RIG TYPE: Geoprobe(R) 7822DT		LOCATION PLAN	
WATER LEVEL: _____					DATE/TIME START: <u>5-16-18 1210</u>		Oceanport, New Jersey	
DATE: _____					DATE/TIME FINISH: <u>5-16-18 1300</u>			
TIME: _____					WEIGHT OF HAMMER: <u>N/A</u>			
MEAS. FROM: _____					DROP OF HAMMER: <u>N/A</u>			
					TYPE OF HAMMER: <u>N/A</u>			
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
0			60/42	0	TOP SOIL 4"			
				0	SAND + GRAVEL + DEBRIS (COAL + SLAG)			
1				0	moist, cmt SAND, some f. Gravel			
				0				
2				0	moist, brn, cmt SAND, tr. silt			
				0				
3	FTMM-08-B10-SB-09-3-3.5			0				
4								
5			60/48	0	same			
				0				
6	FTMM-08-B10-SB-09-6-6.5			0	WET, OR, brn, cmt SAND, tr. silt, l. f. Gravel		WET @ 6.5'	
				0				
7				0				
				0				
8				0				
				0				
9	FTMM-08-B10-SB-09-9-9.5			0				
10					END OF BORING @ 10 FT.			
Remarks: BACKFILL BOREHOLE W/ CUTTINGS.								
Sample Types				Consistency vs. Blowcount / Foot				
S - Split-Spoon				Granular (Sand & Gravel)				
U - Undisturbed Tube				Fine Grained (Silt & Clay)				
C - Rock Core				V. Loose: 0-4 Dense: 30-50 V. Soft: <2 Stiff: 8-15				
A - Auger Cuttings				Loose: 4-10 V. Dense: >50 Soft: 2-4 V. Stiff: 15-30				
				M. Dense: 10-30 M. Stiff: 4-8 Hard: >30				
				end - 35-50% some - 20-35% little - 10-20% trace - <10% moisture, density, color, gradation				

Soil Boring Log

CLIENT: USACE					INSPECTOR: <u>F. ACCORSI</u>		BORING/WELL ID: <u>FTMM-08</u>	
PROJECT NAME: <u>FTMM - ECP</u>					DRILLER: <u>J. BARNEK</u>		<u>B10-SB-10</u>	
PROJECT LOCATION: <u>FTMM Parcel</u>					WEATHER: <u>60's, RAIN</u>		LOCATION DESCRIPTION	
PROJECT NUMBER: <u>748810-</u>					CONTRACTOR: <u>East Coast Drilling, Inc. (ECDI)</u>			
GROUNDWATER OBSERVATIONS					RIG TYPE: <u>Geoprobe(R) 7822DT</u>		LOCATION PLAN	
WATER LEVEL: _____					DATE/TIME START: <u>5-16-18 13</u>		Oceanport, New Jersey	
DATE: _____					DATE/TIME FINISH: <u>5-16-18</u>			
TIME: _____					WEIGHT OF HAMMER: <u>N/A</u>			
MEAS. FROM: _____					DROP OF HAMMER: <u>N/A</u>			
TYPE OF HAMMER: <u>N/A</u>								
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
0			<u>60/42</u>	0	<u>ASPHALT + STONE</u>			
				0	<u>moist, brn cmf SAND little silt</u>		<u>DEBRIS -</u>	
1				0			<u>SLAG +</u>	
				0			<u>COAL</u>	
2	<u>FTMM-08-B10-</u>			0	<u>MOIST, grn-brn m f SAND and clayey silt</u>			
	<u>SB-10-2-2.5</u>			0	<u>MOIST brn-gray Brn cmf SAND</u>			
				0	<u>to silt, & f Gravel</u>			
3				0				
4								
5			<u>60/60</u>	0	<u>SAME</u>			
	<u>FTMM-08-B10-</u>			0	<u>WET, grn-blk m f SAND, L silt</u>		<u>WET @ 5.5</u>	
	<u>SB-10-5.5-6</u>			0				
6				0				
				0				
7				0				
				0				
8				0				
				0				
9	<u>FTMM-08-B10-</u>			0				
	<u>SB-10-9-9.5</u>			0				
				0				
10					<u>END OF BORING @ 10 FT</u>			
Remarks: <u>BACKFILL BOREHOLE w/ DRILL CUTTINGS.</u>								
Sample Types					Consistency vs. Blowcount / Foot			
S - Split-Spoon					Granular (Sand & Gravel)			
U - Undisturbed Tube					Fine Grained (Silt & Clay)			
C - Rock Core					V. Loose: 0-4 Dense: 30-50 V. Soft: <2 Stiff: 8-15			
A - Auger Cuttings					Loose: 4-10 V. Dense: >50 Soft: 2-4 V. Stiff: 15-30			
					M. Dense: 10-30 M. Stiff: 4-8 Hard: >30			
					and - 35-50%			
					some - 20-35%			
					little - 10-20%			
					trace - <10%			
					moisture, density, color, gradation			

Soil Boring Log

CLIENT: USACE	INSPECTOR: <u>Kevin M. Aull</u>	BORING/WELL ID: <u>FTMM08-B-011</u>
PROJECT NAME: FTMM - ECP	DRILLER: <u>DEC</u>	LOCATION DESCRIPTION
PROJECT LOCATION: FTMM Parcel	WEATHER: <u>Low 60's / Rain.</u>	<u>Grass Surface</u>
PROJECT NUMBER: 748810-	CONTRACTOR: East Coast Drilling, Inc. (ECDI)	
GROUNDWATER OBSERVATIONS	RIG TYPE: <u>Geoprobe(R) 7822DT</u>	LOCATION PLAN
WATER LEVEL:	DATE/TIME START: <u>5-17-18</u> / <u>0930</u>	Oceanport, New Jersey
DATE:	DATE/TIME FINISH: <u>5-17-18</u> / <u>0930</u>	
TIME:	WEIGHT OF HAMMER: <u>N/A</u>	
MEAS. FROM:	DROP OF HAMMER: <u>N/A</u>	
	TYPE OF HAMMER: <u>N/A</u>	

DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS
0				0	0-7" - Moist, Med Dense, Brn, FA,		
				0	Sand		
1				0	7"-10" - Moist, M. Dense, light Brn,		
				0	F-C, Silty SAND, trace Fine sub		
2				0	angular gravel		
	<u>FTMM08-B-011</u>			0	42"-60" - NR		<u>FTMM08-B-011-SB-</u> <u>11-60-6.5</u> <u>VOG, SUCs, TAL</u> <u>metals placed on</u> <u>HOLD</u>
				0			
4				0			
				0			
5			42/60	0	0-6" - SAA		
				0	6"-24" - Vet, Med dense, Brn-light Brn,		<u>VO 6' bgs</u>
6				0	F-C, Silty SAND, Abundant M-C Gravel		
	<u>FTMM08-B-011</u>			0	@ 12"		
7				0	24"-54" - Vet, Med dense, Dk Brn, F-M,		
				0	Silty SAND, little Glauconite		
8				0	54"-60" - NR		
				0	EOB @ 10' bgs		
9				0	Backfill boring with soil cuttings		
	<u>FTMM08-B-011</u>		54/60	0			
10							

Remarks: Backfilled Boring with soil cuttings. Soil Samples screened with PID

Indicates Soil Sample Ran for chemical Analysis, # Indicates Soil Sample on Hold

Sample Types

S -- Split-Spoon
 U -- Undisturbed Tube
 C -- Rock Core
 A -- Auger Cuttings

Consistency vs. Blowcount / Foot

Granular (Sand & Gravel)		Fine Grained (Silt & Clay)	
V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15
Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 15-30
M. Dense: 10-30		M. Stiff: 4-8	Hard: >30

and - 35-50%
 some - 20-35%
 little - 10-20%
 trace - <10%
 moisture, density, color, gradation

Soil Boring Log

CLIENT: USACE					INSPECTOR: <u>Kevin McLaughlin</u>		BORING/WELL ID: <u>FTMM-08-B10-SB-12</u>	
PROJECT NAME: FTMM - ECP					DRILLER: <u>Joe</u>		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER: <u>Low 60's Rain</u>		<u>Asphalt & Sub</u>	
PROJECT NUMBER: 748810-					CONTRACTOR: East Coast Drilling, Inc. (ECDI)		LOCATION PLAN	
GROUNDWATER OBSERVATIONS					RIG TYPE: Geoprobe(R) 7822DT		Oceanport, New Jersey	
WATER LEVEL:					DATE/TIME START: <u>5-17-18</u> / <u>1115</u>			
DATE:					DATE/TIME FINISH: <u>5-17-18</u> / <u>1119</u>			
TIME:					WEIGHT OF HAMMER: <u>N/A</u>			
MEAS. FROM:					DROP OF HAMMER: <u>N/A</u>			
TYPE OF HAMMER: <u>N/A</u>								

DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS
0				0	0-6" - Asphalt		
				0	6-24" - Moist, M. dense, Red Brn, F-c,		
1				0	Silty SAND, Trace coarse Gravel		
				0	24"-42" - Moist, M. dense, Dk Red-Brn		
2				0	F-c, Silty SAND, Trace coarse Subangular gravel, little clay		
	<u>3' FTMM-08-B10-SB-2.5-3.0</u>			0			
				0			
4				0			
				0	42"-60" - NR		
5			<u>11/60</u>	0	0-4" - SAA		
				0	4"-36" - Wet, Medium, Dk Brn Green hues,		
6				0	F-M, Silty SAND, little clay, little glauconite		
	<u>6' FTMM-08-B10-SB-6.0-6.5</u>			0	36"-42" - Wet, Medium, Dk Brn Green hues,		
7				0	F-A, Clayey SAND, little glauconite		
				0	42"-54" - Wet, M. Dense, Dk Brn Green hues		
8				0	F-c, Silty SAND, little clay, Trace glauconite		
				0	54"-60" - NR		
9				0			
	<u>9' FTMM-08-B10-SB-9.0-9.5</u>		<u>54/60</u>	0	Boring belidilled with soil cutter		
10							

Remarks: SB Indicates Soil Samples on Hold. Soil Samples Screened with PID

Sample Types	Consistency vs. Blowcount / Foot				
	Granular (Sand & Gravel)		Fine Grained (Silt & Clay)		
S - Split-Spoon	V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15	and - 35-50%
U - Undisturbed Tube	Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 15-30	some - 20-35%
C - Rock Core	M. Dense: 10-30		M. Stiff: 4-8	Hard: >30	little - 10-20%
A - Auger Cuttings					trace - <10%
					moisture, density, color, gradation

Soil Boring Log

CLIENT: USACE					INSPECTOR: <u>Kevin McMill</u>		BORING/WELL ID: <u>FTMM-BID-SB-13</u>	
PROJECT NAME: FTMM - ECP					DRILLER: <u>Joe</u>		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER: <u>Low 60's / Part</u>		<u>Asphalt Surf</u>	
PROJECT NUMBER: 748810-					CONTRACTOR: <u>East Coast Drilling, Inc. (ECDI)</u>			
GROUNDWATER OBSERVATIONS					RIG TYPE: <u>Geoprobe(R) 7822DT</u>		LOCATION PLAN	
WATER LEVEL:					DATE/TIME START: <u>5-17-18 / 1030</u>		Oceanport, New Jersey	
DATE:					DATE/TIME FINISH: <u>5-17-18 / 1035</u>			
TIME:					WEIGHT OF HAMMER: <u>N/A</u>			
MEAS. FROM:					DROP OF HAMMER: <u>N/A</u>			
					TYPE OF HAMMER: <u>N/A</u>			
DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS	
0				0	0-6" - Asphalt			
1				0	6-24" - Med. dense, Red Brn, F-C, Silty SAND, Little C. Subangular gravel			
2				0	24-48" - Med. dense, Brn Olive Hues, F-C, Silty SAND, Trace clay, Trace Fine sub angular gravel			
3	<u>FTMM-BID-SB-13-2.5-3</u>			0	48-60" - NR			
4				0				
5			48/60	0	0-6" - SAA			
6				0	6"-54" - Vet, Med. dense, Brn, light Brn, Red Brn, F-C, Silty SAND, little clay Trace M. Subangular Gravel		<u>0-6' hgt</u>	
7	<u>FTMM-BID-SB-13-6-6.5</u>			0	54-60" - NR			
8				0				
9				0				
10	<u>FTMM-BID-SB-13-9.0-9.5</u>		54/60	0	Boring backfilled with Soil Cuttings			
Remarks: <u>Indicates Soil Sample placed on 16lb soil Sample Screened with PID</u>								
Sample Types					Consistency vs. Blowcount / Foot			
S -- Split-Spoon					Granular (Sand & Gravel)			
U -- Undisturbed Tube					Fine Grained (Silt & Clay)			
C -- Rock Core					V. Loose: 0-4 Dense: 30-50 V. Soft: <2 Stiff: 8-15			
A -- Auger Cuttings					Loose: 4-10 V. Dense: >50 Soft: 2-4 V. Stiff: 15-30			
					M. Dense: 10-30 M. Stiff: 4-8 Hard: >30			
					and 25-50% some 20-35% little 10-20% trace <10% moisture, density, color, gradation			

Soil Boring Log

CLIENT: USACE					INSPECTOR: <u>Karin McMill</u>		BORING/WELL ID: <u>FTM08-BID-SB-14</u>	
PROJECT NAME: FTMM - ECP					DRILLER: <u>Joe</u>		LOCATION DESCRIPTION	
PROJECT LOCATION: FTMM Parcel					WEATHER: <u>low 60's / Rain</u>		<u>Asphalt Surf.</u>	
PROJECT NUMBER: 748810-					CONTRACTOR: East Coast Drilling, Inc. (ECDI)		LOCATION PLAN	
GROUNDWATER OBSERVATIONS					RIG TYPE: <u>Geoprobe(R) 7822DT</u>		Oceanport, New Jersey	
WATER LEVEL: _____					DATE/TIME START: <u>5-7-18 / 10:20</u>			
DATE: _____					DATE/TIME FINISH: <u>5-7-18 / 10:25</u>			
TIME: _____					WEIGHT OF HAMMER: <u>N/A</u>			
MEAS. FROM: _____					DROP OF HAMMER: <u>N/A</u>			
TYPE OF HAMMER: <u>N/A</u>								

DEPTH (feet)	SAMPLE I.D.	BLOWS per 6"	ADV/ REC.	PID (ppm)	FIELD IDENTIFICATION OF MATERIAL	STRATA	COMMENTS
0				0	0-6" - Asphalt		
				0			
1				0	6-36" - Moist, M. dense, Brn - Light Brn, F-c, Silty SAND, Trace M. Subangular		
				0			
2				0	Gravel		
	<u>FTM08-BID SB-14-2.5-3.0</u>			0	36"-42" - Wet, M. dense, Dk Red Brn		
3				0	F-c, Silty SAND, little clay.		
				0			
4				0	42"-60" - NR		
				0			
5			4 1/2	0	0-12" - SAA		
				0			
6				0	12"-18" - Wet, M. dense, Brn, F-c, Silty		
	<u>FTM08-BID SB-6.0-6.5</u>			0	SAND, little clay, Trace M. Subangular		
7				0	Gravel		
				0	18"-54" - Very M. dense, Dk Brn green hues		
8				0	Silty SAND, little clay, little Glaucon		
				0	54"-60" - NR		
9				0	ECB @ 10' base		
	<u>FTM08-BID SB-9.0-9.5</u>		3 1/2	0	Boring Backfilled with Soil cuttings		
10							

Remarks: Indicates Soil Samples on HOLD. Soil Samples Screened with PID

Sample Types	Consistency vs. Blowcount / Foot				
S - Split-Spoon	Granular (Sand & Gravel)		Fine Grained (Silt & Clay)		
U - Undisturbed Tube	V. Loose: 0-4	Dense: 30-50	V. Soft: <2	Stiff: 8-15	and - 35-50%
C - Rock Core	Loose: 4-10	V. Dense: >50	Soft: 2-4	V. Stiff: 15-30	some - 20-35%
A - Auger Cuttings	M. Dense: 10-30		M. Stiff: 4-8	Hard: > 30	little - 10-20%
					trace - <10%
					moisture, density, color, gradation



U.S. ARMY
FORT MONMOUTH
SELF-MANAGED

LOG OF BORING 296-MW7

(Page 1 of 1)

COMPLETED FOR CHARLES APPLEBY

Project Name : BLDG 296
Completion Date : 7/11/94
NJDEP Case # : 93-11-2-1200-13
Northing : N 540635.335
Logged by : TYREE INC.
Easting : E 2172650.087
Start Date : 7/11/94
Driller : M. Beck

Depth in Feet	29-30973 ELEV: 8.25	DESCRIPTION	GRAPHIC	USCS	Samples	Blows/Ft	TPHC	Well Construction Information
0		Red brown sand and till, with trace pebble to 3'		SP	1	5		Well Construction Date Completed : 7/11/94 Hole Diameter : 8 in Drill Method : HSA Company Rep : M. Beck Well Casing Material : PVC Diameter : 4 in Joints : Threaded Well Screen Material : PVC Diameter : 4 in Joints : Threaded Opening : 20 Slot Sand Pack : # 2 Morie Sand Annulus Seal : Bentonite/Portland Tremmie Well Screen Material : PVC Diameter : 4 in Cap :
1		Dark red sand with same till and trace pebble		SP				
2		Dark red sand with same till and trace pebble, water reached at this depth			2	10		
4					3	8		
6				SP				NOTES Well #1 is 296 MW7
8								
10								
12								
14								

Attachment B
Field Notes

TECH: CW/JM, ECOI (JOE BARNAK, C. Tizler)

TASK: PAR 49 soil Borings

Weather: 50-60°F clear

0730: on-site

0740: H + S tailgate

0800: Mob to 49

0900: Begin drilling @ 49

SAMPLE ID	TIME	ANALYSIS
PAR-49-SS-SB-09-0.5-1.0	0930	PAH (Extract + Hold)
PAR-49-SS-SB-09-3.0-3.5	0935	
PAR-49-SS-SB-09-8.0-8.5	0940	
PAR-49-SS-SB-06-0.5-1.0	1000	
PAR-49-SS-SB-06-3.3-3.8	1005	
PAR-49-SS-SB-06-9.5-10	1010	
PAR-49-SS-SB-08-0.5-1.0	1025	
PAR-49-SS-SB-08-1.0-1.5	1030	Hold PCBs
PAR-49-SS-SB-08-2.0-2.5	1035	Hold PCBs
PAR-49-SS-SB-02-1.0-1.5	1100	PAH
PAR-49-SS-SB-02-3.3-3.8	1105	PAH + MS/MSD
PAR-49-SS-SB-02-16-16.5	1125	PAH
PAR-49-SS-SB-03-0.5-1.0	1210	PAH / PCB
PAR-49-SS-SB-03-1.5-2.0	1215	PCB Hold
PAR-49-SS-SB-03-2.5-3.0	1220	PAH + split / PCB Hold
PAR-49-SS-SB-03-12.5-15.0	1225	PAH

Location FTMM Date 11-17-12
 Project / Client USACE
FTMM-08

1500 FA TAKES NL AND JH TO FTMM-08
 AREA FOR PLOW

1532 CHECK BOTTOMWELL AND COMPLETE
 ROAMS

1535 CALL TO PLOW CHARGES FOR PLOW UPDATE

1620 DEPART SITE

[Signature]
 11/17/12

Location FTMM Date 11-20-12
 Project / Client USACE
FTMM-08 BORINGS/TEMP WELLS

0730 MEET NICK AND FRANK, WEATHERED
 RAINY CLOUDY 38°F, WINDY.

0745 BELL CREW TAKES WATER INTO
 THEIR DOME. CAL BEATE PID

0800 HAS S KICKOFF MEETING.

0830 HEAD TO FTMM-08.

0850 SET UP AT FTMM-08-B-10-SB-02

AND BEGIN PUSING IN SOIL SAMPLING TUB

0900 INSTAL TEMP OR DEN WITH FTMM-08-

B-10-SB-02-TMW-02 (SCHEDULED FROM 2-12)

0920 CREW SETS MATS AT LOW POINT ALONG
 PATH TO ACCESS THE ADDITIONAL BORINGS
 PLANNED IN THIS AREA

0935 CREW INDICATED THAT THE TERRAIN IS
 UNSAFE FOR THE GEOPROBE TO MOVE OVER

0955 COLLECT GW SAMPLE FROM TMW-02

1000 CREW HAND AUGERS FOR FTMM-08-B-10-SB-01
 SAMPLES

1015 CREW INSTALS TEMP OR DEN WITH TMW-01
 SCHEDULED FROM 0-6'

1045 GRAB GW SAMPLE FROM TMW-01

1110 CREW HAND AUGERS FROM FTMM-08-B-
 10-SB-04 0-6'-DEPTH

1125 CREW INSTALS TEMP OR DEN WITH TMW-04

[Signature]
 11-20-12

Location FTMMDate 11-20-17Project / Client USACEFTMM-08 / PAR 54-884*Joe*

- COLLECT SOIL SAMPLES FROM SB-04
- CUTTINGS RECOVERED VIA MOUND AUGER
- 1030 COLLECT (W) SAMPLE FROM THW-04
- 1245 ADD TO PAR 54-884 - MW-01
- 1255 BEGIN AUGERING AT MARKED LOCATION
- 1300 REVERSAL AT $\approx 1'$ DEPTH, MAKE $1'$ EAST AND RE-START.
- 1315 AT $5'$ DEPTH, PER ADVICE FROM F.A., BW IS $\approx 6'$ BOS THEREFORE THE WELL SCREEN WILL BE INSTALLED FROM $5'$ - $15'$ DEPTH
- INITIAL CUTTINGS APPEARED TO BE COMPOSED OF DARK REDDISH BROWN SILTY SAND.
- CUTTINGS EMERGING EXHIBIT DEGREE TO $15'$ WELL DEPEND TO BE OLIVE-GREEN SANDY SILT.
- 1325 AT $16'$
- 1330 INSTALL $10'$ SCREENING PUSH OVER PILE WITH ROSS AND FLUSH WITH WATER. USE $1"$ PRIMER PIPE AS A GUIDE AND TAMPER DURING WATER BACK SAND INSTALLATION, RISE TO ABOVE-GRADE FOR STICKUP WELL.
- 1345 4 BAGS OF MARI #1 INSTALLED TO #1 SAND TO TOP (0.5' BOS) AND #0 SAND TO 0.5' BOS.
- 1400 BENTONITE SET TO $\approx 1'$ BOS.

Joe 11-20-17Location FTMMDate 11-20-17Project / Client USACE*Joe*

- 1415 CREW HEADS TO STOPPING AREA FOR CONCRETE FOR PAD CONSTRUCTION
- AT PAR 56-800-20 AND PAR 55-800-10 LOCATIONS AS WELL AS DEVELOPMENT
- 1445 BEGIN PURGING 800-20 - MW-01 VIA WASTE PUMP, TURBID FLOW
- 1447 AFFECTED TO DRYNESS AT ≈ 1.5 gpm
- 1510 PURGE TO DRYNESS
- 1530 PURGE TO DRYNESS, CREW
- 1545 TO PURGE ANOTHER ≈ 6 GALLONS TO COMPLETE DEVELOPMENT.
- 1545 CREW COMPLETES PAD INSTALLATION AT 800-20 - MW-01. CLEANS AREA AND DEPARTS SITE
- 1600 DEPARTS SITE

Joe

11-20-17

Location FTMM-08-BOLING 10 AREA Date 5-16-18

Project / Client

CLOUDY, OCL. RAIN, -60°s

SOIL BOLTS + W/ INSULATION

ECOI (TOM GARNAR, JOSH SETH) ON-SITE 0700
CONDUCT HHS MEETING, REVIEW WORK OBJECTIVES
AND POTENTIAL SAFETY ISSUES.

SET UP ON SB-05 COLLECT SOIL SAMPLES

0915 SB-05-2,5-3.0

0900	56-05-5.5-6
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0930	3B-05-9-9.5
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0950 INSTALL 4" M-08-BIO-MW-01 TO 13 FT.
SCREEN FROM 3' TO 13', BIO SLOT, MORIE
GRAVEL ⁰ TO 1' ABOVE SCREEN, 1' BENTONITE

1150 WELL FINISHED - SET CONCRETE PAD + BOX

1310 5B-09 TO 10 FT.

1313 BEZIN SB-10 TO 10 FT.

1420 BEGIN SB-07 TO 10 FT

1515 SB-07 COMPLETE, CLEAN UP SITE,
BREAK DOWN EQUIP. TAKE SAMPLES
TO OFFICE FOR CHECK AND PUT ~~IN~~ IN
REFRIGERATOR, ECDI OFFSITE MOULD
DRUM TO B.699, OFFSITE (2) 1345
COMPLETE FIELD FORMS & PAPER WORK

PA

Location

Date _____

Project / Client

Location FTMM-08-BORING 10 AREA Date 5-16-18

Project / Client _____

CLOUDY, OCC. RAIN, 60'sSOIL BORINGS + MW INSTALLATION

ECOI (TOM GARNER, JOSH SCHILY) ON-SITE 0700
 CONDUCT HSE MEETING, REVIEW WORK OBJECTIVES
 AND POTENTIAL SAFETY ISSUES.

SET UP ON ^{FTMM-08-BIO-}SB-05 COLLECT SOIL SAMPLES

0915 SB-05-2.5-3.0

0900 SB-05-5.5-6

0930 SB-05-9-9.5

0950 INSTALL FTMM-08-BIO-MW-01 TO 13 FT.
 SCREEN FROM 3' TO 13', 010 SLOT, MORIE
 GRAVEL TO 1' ABOVE SCREEN, 1' BENTONITE

1150 WELL FINISHED - SET CONCRETE PAD + BOX

1210 SB-09 TO 10 FT.

1313 BEGIN SB-10 TO 10 FT.

1420 BEGIN SB-07 TO 10 FT.

1515 SB-07 COMPLETE, CLEAN UP SITE,
 BREAK DOWN EQUIP. TAKE SAMPLES
 TO OFFICE FOR CHECK AND PUT ~~IN~~ IN
 REFRIGERATOR, ECOI OFFSITE MOVED
 DRUM TO B.699, OFFSITE @ 1345
 COMPLETE FIELD FORMS + PAPER WORK

FA

Location Oceanport, NJ Date 5-17-18

Project / Client _____

FTMM / USACE

Weather - Low 60's, Heavy Rain

Activity - Drilling, Soil Sampling

Equipment - 1x IP, 1x PID, 1x Geoprobe, PPE, Hand tools

Personnel - KM - FA; Parsons

Josh - Joe: ECOI

Please Note: (P) = Primary, (C) = Contingency, (CP) / (C) = Primary + Contingency

Activities

0700 - All onsite, HSE meeting,

Calibrate Equipment

0730 - MOB to FTMM-08-BIO

0750 - Resume Drilling FTMM-08-BIO

0812 - Collect FTMM-08-BIO-SB-05-2.5-3.0 ^{ENHANCED} (P)

0814 - -08-6.0-6.5 (C) / (CP)

0816 - -08-9.0-9.5 (CP)

0908 - -06-2.5-3.0 (MS/MSD) (P)

0910 - -06-6.0-6.5 (CP) / (CC)

0912 - -06-9.0-9.5 (P)

0936 - -11-2.5-3.0 (C)

0938 - -11-6.0-6.5 (C)

0940 - -11-9.0-9.5 (C)

1026 - -14-2.5-3.0 (C)

1028 - -14-6.0-6.5 (C)

1030 - -14-9.0-9.5 (C)

1040 - -13-2.5-3.0 (C)

1040 - Collect FTMM-08-BIO-SB-13-60-6.5 (C)
1044 - -13-90-4.5 (C)
1120 - -12-25-3.0 (C)
1122 - -12-60-6.5 (C)
1124 - -12-90-4.5 (C)

1200 - ECOI take lunch

0950 - Collected FTMM-08-BIO-EB-05172018

1300 - Mob to ^{PAR-72} ~~FTMM-22~~ to Install

~~PAR-72~~ PAR-72-211-MU-05 (See Well Construction logs for details) (16)

1345 - Finished Drilling (H&A), Setup + Install 2"

1450 - Finished Installing PAR-7211-MU-05

1500 - Return to office to Finalize paper work.

1530 - All off-site