DEPARTMENT OF THE ARMY

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

November 10, 2015

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

Re: Request to Discontinue Long Term Monitoring of Groundwater at FTMM-03 and FTMM-61, Fort Monmouth, New Jersey

Attachments:

A. Figure 1 Layout of FTMM-03 Closed Solid Waste Landfill and Table 1 FTMM-03 Groundwater Analytical Results - 2013 and 2014
B. Figure 1 Layout of FTMM-61 B37 Building 283 Gasoline Storage and Table 1 FTMM-61 Groundwater Analytical Results - 2013 and 2014

Previous Correspondence and Reports (not attached):

1. NJDEP letter to U.S. Army dated July3, 2014, *re: Final Baseline Groundwater Sampling Report (August 2013).*
2. U.S. Army letter to NJDEP dated November 26, 2014, *re: NJDEP Comments* on the *Final Baseline Groundwater Sampling Report (August 2013).*
3. NJDEP letter to U.S. Army dated February 5, 2015, *re: Approval* November *26, 2014 Response to Comments* on the *Final Baseline Groundwater Sampling Report (August 2013).*

Dear Ms. Range:

In preparation for the 2015 annual groundwater sampling event scheduled to begin the week of November 16, 2015 at Fort Monmouth (FTMM), the U.S. Army is requesting the New Jersey Department of Environmental Protection (NJDEP) approval to discontinue long term monitoring (LTM) of the groundwater at two of the Installation Restoration Program (IRP) sites, specifically FTMM-03 and FTMM-61 based on the 2014 data. In the August 2013 Final Baseline Groundwater Sampling Report both sites were recommended (and agreed by the NJDEP) for one additional round of sampling at select wells in 2014, followed by discontinuing LTM if concentrations continue to below the NJDEP Ground Water Quality Standards (GWQS). The 2014 annual sampling has been completed and the data demonstrates that the groundwater concentrations are below the GWQS at these two sites. Therefore, further LTM should be discontinued. (Please note that the 2014 Annual Sampling Report is currently under review by the USACE.) Summarized below is relevant background information and the 2014 sampling results for each site.

FTMM-03

The recommendations in the August 2013 Final Baseline Groundwater Sampling Report included sampling well M3MW02 for volatile organic compounds (VOCs) and TAL metals one additional time and discontinue LTM of the groundwater at 11 of the 12 wells including the abandonment of well M3MW07. (The location locations of the monitoring wells within FTMM-03 are shown on the Figure provided in **Attachment A.**) Prior to the acceptance of these recommendations, the NJDEP requested (Correspondence 1) the analytical data associated with the temporary well point investigation conducted to investigate the source of the exceedances of vinyl chloride (VC) detected in well MW3MW07. VC was not detected in the five temporary well point groundwater samples. In addition, a replacement monitoring well, M3MW07A, was installed adjacent to M3MW07 to determine if VC maybe leaching from the PVC pipe used to construct the well in 2010. VC was not detected in the sample collected from M3MW07A. The temporary well point data along with a site map showing the location the wells points was submitted to the NJDEP (Correspondence 2). The NJDEP approved of the recommendations for FTMM-03 in their February 2015 letter (Correspondence 3) based on this data.

At the time of the 2014 groundwater sampling event, the Army had not yet received approval from the NJDEP regarding the abandonment of M3MW07 so this well was sampled in 2014 for VOCs.

Groundwater samples were collected from monitoring wells M3MW02 and M3MW07 using low-flow purging and sampling (LFPS) on October 2 and 3, 2014 for the analysis of VOCs and M3MW02 was also sampled for TAL metals. VOCs were not detected in the sample from M3MW02 above their GWQS. Only one metal, aluminum (685 µg/L) was detected above its NJDEP GWQS of 200 µg/L in M3MW02. The aluminum concentration is attributed to the abundance of this metal in glauconitic soils that underlie the Site and not indicative of the overall groundwater quality at FTMM-03. VC was detected in M3MW07 at an estimated concentration of 4 µg/L. The 2013 and 2014 analytical results for both wells are provided on Table 1 included in **Attachment A.** Therefore, the Army recommends discontinuing LTM at FTMM-03 based on the 2014 data results and will continue with the abandonment of well M3MW07 as agreed by the NJDEP in their February 2015 letter (Correspondence 3).

FTMM-61

The recommendation provided in the 2013 Final Baseline Groundwater Sampling Report and approved by the NJDEP (Correspondence 3) were implemented during 2014 sampling event. The recommendations implemented were discontinuing LTM of three (283MW01, 283MW03, 283MW04) of the four wells and sampling well M283MW02 for VOCs one additional time. (The locations of the monitoring wells within FTMM-61 are shown on the Figure provided in **Attachment B.**) A groundwater sample was collected from monitoring well 283MW02 using LFPS on October 2, 2014. VOCs were not detected above their GWQS in the sample. The 2013 and 2014 analytical results for well M283MW02 are provided on Table 1 included in **Attachment B.** Therefore, the Army recommends discontinuing LTM based on the 2014 data results.

In summary, we request that long term monitoring is discontinued at FTMM-03 and FTMM-61. The technical Point of Contact (POC) for this matter is Cris Grill at (617) 449-1583 or by email at cris.grill@parsons.com. Should you have any questions or require additional information, please contact me by phone (732- 383-5104) or by email at john.e.occhipinti.civ@mail.mil.

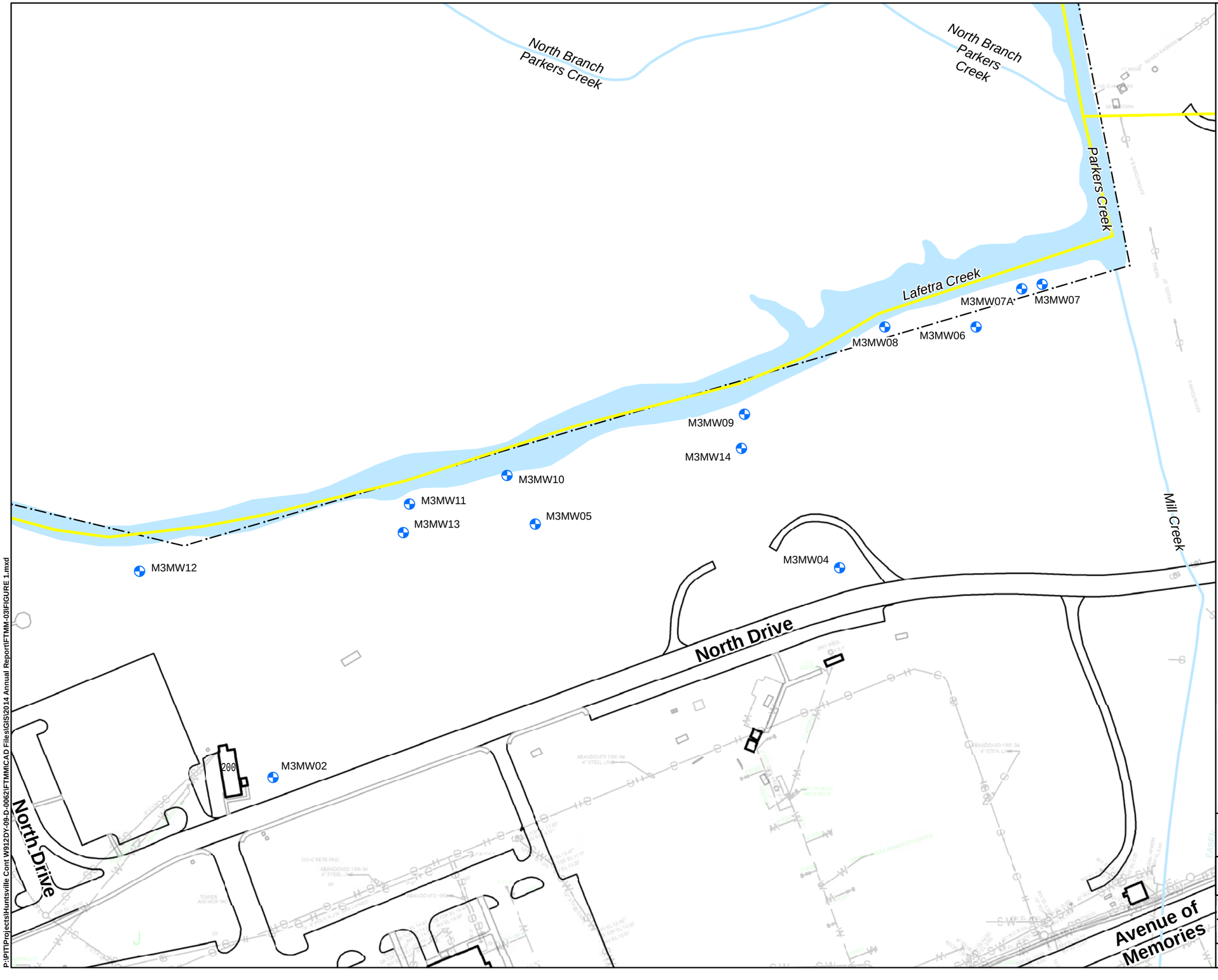
Sincerely,

John E. Occhipinti
Fort Monmouth Site Manager

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

Attachment A

Figure 1 - Layout of FTMM-03 and
Table 1 - FTMM-03 Groundwater Analytical Results - 2013 and 2014



LEGEND:

- Shallow Monitoring Well
- FTMM-03 Landfill Revised Boundary
- Surface Water Feature
- Municipal Boundary
- Installation Boundary
- W Water Line
- S Sanitary Sewer Line
- SW Storm Sewer Line
- G Gas Line

DRAFT

N

1 inch = 130 feet

0 65 130 260 Feet

Source: FTMM Supplied CAD, 2013.

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

LAYOUT OF FTMM-03
CLOSED SOLID WASTE LANDFILL

CREATED BY: RR	REVIEWED BY: ME
DATE: OCT. 2015	FIGURE NUMBER: FIGURE 1
PROJECT NUMBER: 748810-01000	FILE: FIGURE 1.mxd

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS\2014 Annual Report\FTMM-03\FIGURE 1.mxd

Table 1
Groundwater Analytical Results - 2013 and 2014
Site FTMM-03 Closed Solid Waste Landfill
Annual (Fourth Quarter) 2014 Groundwater Sampling Report
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	Weston 1995 Background (Main Post)	M3MW02		M3MW04	M3MW05	M3MW06	M3MW07	
Sample ID				FTMM-3-GW-M3MW02-21	FTMM-3-GW-M3MW102-21	FTMM-3-GW-M3MW04	FTMM-3-GW-M3MW05	FTMM-3-GW-M3MW06	FTMM-3-GW-M3MW07	FTMM-3-GW-M3MW07-13.85
Sample Date				10/3/2014	10/3/2014	8/23/2013	8/23/2013	8/23/2013	8/23/2013	10/2/2014
QA/QC				SA	DU	SA	SA	SA	SA	SA
Sample Method				Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow
Volatile Organic Compounds (µg/l)										
1,1,1,2-Tetrachloroethane	1	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	-	< 5	**2 J**	< 5	**6.7**	< 5	**3 J**	**2.4 J**
Benzene	1	5	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromobenzene	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	1	5	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	-	< 1	< 1	< 1	**0.59 J**	< 1	< 1	< 1
Chlorodibromomethane	1	80	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	-	< 1	< 1	< 1	< 1	< 1	**0.81 J**	**3 J**
Cis-1,3-Dichloropropene	1	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethyl benzene	700	700	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	1	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Meta & Para Xylenes	1,000	NLE	-	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl bromide	10	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl butyl ketone	300	NLE	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
n-Butylbenzene	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ortho Xylene	1,000	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
p-Chlorotoluene	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1

Table 1
Groundwater Analytical Results - 2013 and 2014
Site FTMM-03 Closed Solid Waste Landfill
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Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	Weston 1995 Background (Main Post)	M3MW02		M3MW04	M3MW05	M3MW06	M3MW07	
Sample ID				FTMM-3-GW-M3MW02-21	FTMM-3-GW-M3MW102-21	FTMM-3-GW-M3MW04	FTMM-3-GW-M3MW05	FTMM-3-GW-M3MW06	FTMM-3-GW-M3MW07	FTMM-3-GW-M3MW07-13.85
Sample Date				10/3/2014	10/3/2014	8/23/2013	8/23/2013	8/23/2013	8/23/2013	10/2/2014
QA/QC				SA	DU	SA	SA	SA	SA	SA
Sample Method				Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow
Propylbenzene	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Styrene	100	100	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	-	< 20	< 20	NA	NA	NA	NA	< 20
tert-Butylbenzene	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Xylenes	1,000	10,000	-	NA	NA	< 3	< 3	< 3	< 3	NA
Trans-1,2-Dichloroethene	100	100	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	2,000	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	-	< 1	< 1	< 1	< 1	< 1	**2.9 J**	**4 J**
TIC VOCs (mg/l)										
Total TIC, Volatile	500	NLE	-	ND	ND	ND	ND	ND	ND	ND
Inorganics (µg/l)										
Aluminum	200	NLE	121,000	**685**	**660**	**288**	**258**	**63.1 J**	< 25	NA
Antimony	6	6	20.7	< 30	**3.8 J**	< 4	**2.7 J**	**3.3 J**	< 4	NA
Arsenic	3	10	89.3	< 5	< 5	< 5	< 5	< 5	< 5	NA
Barium	6,000	2,000	699	**48.6 J**	**47.7 J**	**104**	**151**	**15.9 J**	**455**	NA
Beryllium	1	4	2.1	**0.905 J**	**0.837 J**	**0.256 J**	< 0.3	< 0.3	< 0.3	NA
Cadmium	4	5	9.5	**0.483 J**	**0.203 J**	**2.6**	< 0.4	**0.278 J**	< 0.4	NA
Calcium	NLE	NLE	45,400	**4,930**	**4,620**	**35,300**	**43,100**	**12,600**	**532,000**	NA
Chromium	70	100	191	< 5	< 5	**1.7**	**2.4**	**1.5**	**1**	NA
Cobalt	100	NLE	18.3	**5.5 J**	**4.9 J**	**15.7**	< 1	< 1	< 1	NA
Copper	1,300	1,300	65.6	< 10	< 10	< 4	**4.1 J**	**3.2 J**	**4.7 J**	NA
Iron	300	NLE	431,000	**101**	**97.8 J**	**1,110**	**28,700**	**897**	**43,900**	NA
Lead	5	15	22.7	< 2.5	< 2.5	< 2	**0.952 J**	< 2	< 2	NA
Magnesium	NLE	NLE	62,700	**10,200**	**9,910**	**8,300**	**5,360**	**4,100**	**68,200**	NA
Manganese	50	NLE	331	**32.4**	**31**	**32.9**	**180**	**57.2**	**2,600**	NA
Mercury	2	2	0.26	< 0.1	< 0.1	< 0.08	< 0.08	< 0.08	< 0.08	NA
Nickel	100	NLE	187	**55.3**	**50.5**	**61.2**	< 5	**2.3 J**	**0.86 J**	NA
Potassium	NLE	NLE	137,000	**3,090**	**2,990**	**8,170**	**4,390**	**4,830**	**24,100**	NA
Selenium	40	50	29.6	< 10	< 10	< 5	**3.2 J**	**2.8 J**	**4.5 J**	NA
Silver	40	NLE	ND	< 5	< 5	**0.785 J**	**0.664 J**	**0.464 J**	**1 J**	NA
Sodium	50,000	NLE	21,500	**12,300**	**12,200**	**32,600**	**16,300**	**31,800**	**1,020,000**	NA
Thallium	2	2	5.5	< 10	< 10	< 10	< 10	< 10	< 10	NA
Vanadium	NLE	NLE	108	< 25	< 25	**0.711 J**	**2.5 J**	**0.6 J**	< 0.6	NA
Zinc	2,000	NLE	233	**102**	**96.8**	**117**	**16.5 J**	**76.7**	**135**	NA

Table 1
Groundwater Analytical Results - 2013 and 2014
Site FTMM-03 Closed Solid Waste Landfill
Annual (Fourth Quarter) 2014 Groundwater Sampling Report
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	Weston 1995 Background (Main Post)	M3MW07A		M3MW08	M3MW09	M3MW10	M3MW11	M3MW12	M3MW13	M3MW14
Sample ID				FTMM-3-GW-M3MW07A	FTMM-3-GW-M3MW17A	FTMM-3-GW-M3MW08	FTMM-3-GW-M3MW09	FTMM-3-GW-M3MW10	FTMM-3-GW-M3MW11	FTMM-3-GW-M3MW12	FTMM-3-GW-M3MW13	FTMM-3-GW-M3MW14
Sample Date				8/23/2013	8/23/2013	8/23/2013	8/23/2013	8/23/2013	8/23/2013	8/23/2013	8/23/2013	8/23/2013
QA/QC				SA	DU	SA	SA	SA	SA	SA	SA	SA
Sample Method				Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow
Volatile Organic Compounds (µg/l)												
1,1,1,2-Tetrachloroethane	1	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	-	< 1	< 1	< 1	**0.46 J**	**0.4 J**	**0.24 J**	< 1	**0.47 J**	**0.61 J**
1,2-Dichloroethane	2	5	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.26 J**	**0.39 J**
1,3-Dichloropropane	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	-	**0.38 J**	**0.39 J**	**0.96 J**	**1.5 J**	**1.4 J**	**0.76 J**	< 1	**2.5 J**	**2.3 J**
2,2-Dichloropropane	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	-	**2.9 J**	**2.2 J**	**2.8 J**	**2.3 J**	**4.6 J**	**2.2 J**	< 5	**2.2 J**	**2 J**
Benzene	1	5	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	**0.24 J**
Bromobenzene	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	1	5	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	-	**0.84 J**	**0.83 J**	**1.7 J**	**8.9**	**11**	**2.4 J**	< 1	**3.4 J**	**9.9**
Chlorodibromomethane	1	80	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Cymene	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Ethyl benzene	700	700	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Hexachlorobutadiene	1	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	-	< 1	< 1	< 1	< 1	**0.31 J**	**0.52 J**	< 1	< 1	< 1
Meta & Para Xylenes	1,000	NLE	-	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 2
Methyl bromide	10	NLE	-	**0.33 J**	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl butyl ketone	300	NLE	-	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	-	< 1	< 1	< 1	< 1	**1.2 J**	< 1	< 1	< 1	< 1
n-Butylbenzene	100	NLE	-	< 1	< 1	< 1	< 1	**0.38 J**	< 1	< 1	< 1	**0.39 J**
Ortho Xylene	1,000	NLE	-	< 1	< 1	< 1	< 1	**0.21 J**	< 1	< 1	< 1	< 1
p-Chlorotoluene	100	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1

Table 1
Groundwater Analytical Results - 2013 and 2014
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Annual (Fourth Quarter) 2014 Groundwater Sampling Report
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	Weston 1995 Background (Main Post)	M3MW07A		M3MW08	M3MW09	M3MW10	M3MW11	M3MW12	M3MW13	M3MW14
Sample ID				FTMM-3-GW-M3MW07A	FTMM-3-GW-M3MW17A	FTMM-3-GW-M3MW08	FTMM-3-GW-M3MW09	FTMM-3-GW-M3MW10	FTMM-3-GW-M3MW11	FTMM-3-GW-M3MW12	FTMM-3-GW-M3MW13	FTMM-3-GW-M3MW14
Sample Date				8/23/2013	8/23/2013	8/23/2013	8/23/2013	8/23/2013	8/23/2013	8/23/2013	8/23/2013	8/23/2013
QA/QC				SA	DU	SA	SA	SA	SA	SA	SA	SA
Sample Method				Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow	Low Flow
Propylbenzene	100	NLE	-	< 1	< 1	< 1	< 1	**0.26 J**	< 1	< 1	< 1	< 1
sec-Butylbenzene	100	NLE	-	< 1	< 1	< 1	**0.3 J**	**0.66 J**	< 1	< 1	**0.3 J**	**1.2 J**
Styrene	100	100	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	-	NA	NA	NA	NA	NA	NA	NA	NA	NA
tert-Butylbenzene	100	NLE	-	**0.31 J**	**0.35 J**	**0.32 J**	**0.47 J**	**0.49 J**	< 1	< 1	**0.5 J**	**0.81 J**
Tetrachloroethene	1	5	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Total Xylenes	1,000	10,000	-	< 3	< 3	< 3	< 3	**0.21 J**	< 3	< 3	< 3	< 3
Trans-1,2-Dichloroethene	100	100	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	2,000	NLE	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	-	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
TIC VOCs (mg/l)												
Total TIC, Volatile	500	NLE	-	ND	ND	ND	ND	**8.7 JN**	ND	ND	ND	**20.6 JN**
Inorganics (µg/l)												
Aluminum	200	NLE	121,000	< 25	< 25	**40.4 J**	**224**	< 25	< 25	< 25	**70.3 J**	< 25
Antimony	6	6	20.7	< 4	< 4	< 4	< 4	< 4	< 4	< 4	< 4	**2.1 J**
Arsenic	3	10	89.3	< 5	< 5	< 5	< 5	< 5	< 5	**2.3 J**	< 5	**2.1 J**
Barium	6,000	2,000	699	**369**	**358**	**383**	**377**	**862**	**429**	**96.6**	**575**	**241**
Beryllium	1	4	2.1	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
Cadmium	4	5	9.5	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4
Calcium	NLE	NLE	45,400	**247,000**	**237,000**	**76,400**	**49,900**	**128,000**	**161,000**	**23,300**	**79,300**	**50,600**
Chromium	70	100	191	**0.561 J**	**0.613 J**	**0.47 J**	**1.2**	**0.532 J**	**0.605 J**	< 1	**0.223 J**	**0.399 J**
Cobalt	100	NLE	18.3	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1	< 1
Copper	1,300	1,300	65.6	**1.6 J**	**1.1 J**	**1.7 J**	**25**	< 4	**3.3 J**	< 4	< 4	< 4
Iron	300	NLE	431,000	**58,600**	**57,300**	**45,100**	**64,700**	**86,000**	**76,400**	**43,000**	**43,600**	**71,400**
Lead	5	15	22.7	< 2	< 2	< 2	**7.8**	< 2	< 2	< 2	< 2	< 2
Magnesium	NLE	NLE	62,700	**46,000**	**45,000**	**16,600**	**12,400**	**23,000**	**23,400**	**4,640**	**21,100**	**11,400**
Manganese	50	NLE	331	**1,810**	**1,770**	**664**	**769**	**669**	**1,140**	**114**	**401**	**628**
Mercury	2	2	0.26	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08	< 0.08
Nickel	100	NLE	187	< 5	< 5	< 5	**3.5 J**	< 5	**35.5**	< 5	< 5	< 5
Potassium	NLE	NLE	137,000	**14,800**	**14,700**	**7,290**	**8,350**	**11,900**	**10,400**	**9,960**	**12,100**	**7,400**
Selenium	40	50	29.6	**4.1 J**	**2 J**	**3.8 J**	**4.2 J**	< 5	< 5	< 5	< 5	< 5
Silver	40	NLE	ND	**0.875 J**	**0.408 J**	**0.556 J**	< 2	< 2	< 2	**0.277 J**	< 2	< 2
Sodium	50,000	NLE	21,500	**338,000**	**331,000**	**157,000**	**53,200**	**129,000**	**278,000**	**7,900**	**212,000**	**13,100**
Thallium	2	2	5.5	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10	< 10
Vanadium	NLE	NLE	108	< 0.6	< 0.6	< 0.6	< 0.6	< 0.6	**0.368 J**	< 0.6	< 0.6	< 0.6
Zinc	2,000	NLE	233	**0.575 J**	**0.915 J**	**4.5 J**	**72.2**	**0.92 J**	**40.7**	**3.8 J**	**5.8 J**	< 4

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

5) Chemical result qualifiers are assigned by the laboratory and is typically evaluated and modified (if necessary) by during data validation.
[blank] = detect, i.e. detected chemical result value.
B = Compound detected in the sample and its associated blank sample.
R = Rejected, data validation rejected the results.
U = non-detect, i.e. not detected equal to or above this value.
U-DL = Elevated sample detection limit due to difficult sample matrix.
U-ND = Analyte not detected in sample, but no detection or reporting limit provided.
J = estimated (detect or non-detect) value.
E (or ER) = Estimated result.
D = Results from dilution of sample.
J-DL = Elevated sample detection limit due to difficult sample matrix.
JN = Tentatively identified compound, estimated concentration.

6) Chemical results greater than or equal to the action level (depending on criteria) are highlighted based on the Criteria that are present.
- Cell Shade values represent a result that is above the NJ Ground Water Quality Criteria ####

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

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- Bold Outline represent a result that is above the USEPA 2014-05 MCL. ###
- 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.

7) Criteria action level source document and web address.
- The NJ Ground Water Quality Criteria refers to the NJDEP Groundwater Quality Standards - Adopted July 22, 2010
http://www.state.nj.us/dep/wms/bwqsa/docs/njac79C.pdf
- The 2014-05 USEPA MCL refers to the USEPA's Region 9 Regional Screening Levels (HQ=1.0) - 5/31/2014 (Last revised)
http://www.epa.gov/region9/superfund/prg/
- The Weston 1995 Background (Main Post) refers to the FTMM reports.
NA

8) Wells sampled in the fourth quarter are highlighted in yellow. Sample ID

Attachment B

Figure 1 - Layout of FTMM-61B37 Building 283 Gasoline Storage and Table 1 - FTMM-61 Groundwater Analytical Results - 2013 and 2014

283MW01

UST-283-59

Former 10,000 Gallon
No. 2 Fuel Oil UST

283MW03

288

283

283MW04

UST-283-58

283MW05

283MW02

UST-283-229

Former 3,000 Gallon
Gasoline UST

FTMM-61

283MW06

295

LEGEND:

- Shallow Monitoring Well
- Removed Gasoline UST associated with FTMM-61
- Removed Steel UST associated with FTMM-61 (Building 283)
- FTMM-61 Boundary
- Municipal Boundary
- Installation Boundary
- W Water Line
- S Sanitary Sewer Line
- SW Storm Sewer Line
- G Gas Line

DRAFT

N

1 inch = 30 feet

0 15 30 60 Feet

Source: FTMM Supplied CAD, 2013.

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

LAYOUT OF FTMM-61
B37 BUILDING 283 GASOLINE STORAGE

CREATED BY: RR	REVIEWED BY: ME
DATE: OCT. 2015	FIGURE NUMBER: FIGURE 1
PROJECT NUMBER: 748810-01000	FILE: FIGURE 1.mxd

P:\PIT\Projects\Huntsville Cont W912DY-09-D-0062\FTMM\CAD Files\GIS\2014 Annual Report\FTMM-61\FIGURE 1.mxd 10/2/2015 2:46:20 PM

Table 1
Groundwater Analytical Results - 2013 and 2014
Site FTMM-61 Building 283 Gasoline Storage
Annual (Fourth Quarter) 2014 Groundwater Sampling Report
Fort Monmouth, New Jersey

Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	Weston 1995 Background (Main Post)	283MW01	283MW02		283MW03	283MW04
Sample ID				FTMM-61-GW-283MW01	FTMM-61-GW-283MW02	FTMM-61-GW-283MW02-13.26	FTMM-61-GW-283MW03	FTMM-61-GW-283MW04
Sample Date				8/15/2013	8/16/2013	10/2/2014	8/15/2013	8/16/2013
QA/QC				SA	SA	SA	SA	SA
Study ID				Baseline - August 2013	Baseline - August 2013	2014-Q4 QGW	Baseline - August 2013	Baseline - August 2013
Sampling Method				LFPS	LFPS	LFPS	LFPS	LFPS
Volatile Organic Compounds (µg/l)								
1,1,1,2-Tetrachloroethane	1	NLE	-	< 1	< 1	< 1	< 1	< 1
1,1,1-Trichloroethane	30	200	-	< 1	< 1	< 1	< 1	< 1
1,1,2,2-Tetrachloroethane	1	NLE	-	< 1	< 1	< 1	< 1	< 1
1,1,2-Trichloroethane	3	5	-	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethane	50	NLE	-	< 1	< 1	< 1	< 1	< 1
1,1-Dichloroethene	1	7	-	< 1	< 1	< 1	< 1	< 1
1,1-Dichloropropene	100	NLE	-	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichlorobenzene	100	NLE	-	< 1	< 1	< 1	< 1	< 1
1,2,3-Trichloropropane	0.03	NLE	-	< 1	< 1	< 1	< 1	< 1
1,2,4-Trichlorobenzene	9	70	-	< 1	< 1	< 1	< 1	< 1
1,2,4-Trimethylbenzene	100	NLE	-	**1.2 J**	< 1	< 1	< 1	< 1
1,2-Dibromo-3-chloropropane	0.02	0.2	-	< 1	< 1	< 1	< 1	< 1
1,2-Dibromoethane	0.03	0.05	-	< 1	< 1	< 1	< 1	< 1
1,2-Dichlorobenzene	600	600	-	< 1	< 1	< 1	< 1	< 1
1,2-Dichloroethane	2	5	-	< 1	< 1	< 1	< 1	< 1
1,2-Dichloropropane	1	5	-	< 1	< 1	< 1	< 1	< 1
1,3,5-Trimethylbenzene	100	NLE	-	**0.59 J**	< 1	< 1	< 1	< 1
1,3-Dichlorobenzene	600	NLE	-	< 1	< 1	< 1	< 1	< 1
1,3-Dichloropropane	100	NLE	-	< 1	< 1	< 1	< 1	< 1
1,4-Dichlorobenzene	75	75	-	< 1	< 1	< 1	< 1	< 1
2,2-Dichloropropane	100	NLE	-	< 1	< 1	< 1	< 1	< 1
2-Chlorotoluene	100	NLE	-	< 1	< 1	< 1	< 1	< 1
Acetone	6,000	NLE	-	< 5	**2.1 J**	< 5	**1.4 J**	< 5
Benzene	1	5	-	< 1	< 1	< 1	< 1	< 1
Bromobenzene	100	NLE	-	< 1	< 1	< 1	< 1	< 1
Bromochloromethane	100	NLE	-	< 1	< 1	< 1	< 1	< 1
Bromodichloromethane	1	80	-	< 1	< 1	< 1	< 1	< 1
Bromoform	4	80	-	< 1	< 1	< 1	< 1	< 1
Carbon tetrachloride	1	5	-	< 1	< 1	< 1	< 1	< 1
Chlorobenzene	50	100	-	< 1	< 1	< 1	< 1	< 1
Chlorodibromomethane	1	80	-	< 1	< 1	< 1	< 1	< 1
Chloroethane	5	NLE	-	< 1	< 1	< 1	< 1	< 1
Chloroform	70	80	-	< 1	< 1	< 1	< 1	< 1
Cis-1,2-Dichloroethene	70	70	-	< 1	< 1	< 1	< 1	< 1
Cis-1,3-Dichloropropene	1	NLE	-	< 1	< 1	< 1	< 1	< 1
Cymene	100	NLE	-	< 1	< 1	< 1	< 1	< 1
Dichlorodifluoromethane	1,000	NLE	-	< 1	< 1	< 1	< 1	< 1
Ethyl benzene	700	700	-	**1 J**	< 1	< 1	< 1	< 1
Hexachlorobutadiene	1	NLE	-	< 1	< 1	< 1	< 1	< 1
Isopropylbenzene	700	NLE	-	< 1	< 1	< 1	< 1	< 1
Meta & Para Xylenes	1,000	NLE	-	**1.9 J**	< 2	< 2	< 2	< 2
Methyl bromide	10	NLE	-	< 1	< 1	< 1	< 1	< 1

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Loc ID	NJ Ground Water Quality Criteria	2014-05 USEPA MCL	Weston 1995 Background (Main Post)	283MW01	283MW02		283MW03	283MW04
Sample ID				FTMM-61-GW-283MW01	FTMM-61-GW-283MW02	FTMM-61-GW-283MW02-13.26	FTMM-61-GW-283MW03	FTMM-61-GW-283MW04
Sample Date				8/15/2013	8/16/2013	10/2/2014	8/15/2013	8/16/2013
QA/QC				SA	SA	SA	SA	SA
Study ID				Baseline - August 2013	Baseline - August 2013	2014-Q4 QGW	Baseline - August 2013	Baseline - August 2013
Sampling Method				LFPS	LFPS	LFPS	LFPS	LFPS
Methyl butyl ketone	300	NLE	-	< 5	< 5	< 5	< 5	< 5
Methyl chloride	100	NLE	-	< 1	< 1	< 1	< 1	< 1
Methyl ethyl ketone	300	NLE	-	< 1	< 1	< 1	< 1	< 1
Methyl isobutyl ketone	100	NLE	-	< 1	< 1	< 1	< 1	< 1
Methyl Tertbutyl Ether	70	NLE	-	< 1	< 1	< 1	< 1	< 1
Methylene chloride	3	5	-	< 1	< 1	< 1	< 1	< 1
Naphthalene	300	NLE	-	**0.25 J**	< 1	< 1	< 1	< 1
n-Butylbenzene	100	NLE	-	< 1	< 1	< 1	< 1	< 1
Ortho Xylene	1,000	NLE	-	**0.23 J**	< 1	< 1	< 1	< 1
p-Chlorotoluene	100	NLE	-	< 1	< 1	< 1	< 1	< 1
Propylbenzene	100	NLE	-	< 1	< 1	< 1	< 1	< 1
sec-Butylbenzene	100	NLE	-	< 1	< 1	< 1	< 1	< 1
Styrene	100	100	-	< 1	< 1	< 1	< 1	< 1
Tert Butyl Alcohol	100	NLE	-	NA	NA	< 20	NA	NA
tert-Butylbenzene	100	NLE	-	< 1	< 1	< 1	< 1	< 1
Tetrachloroethene	1	5	-	< 1	< 1	< 1	< 1	< 1
Toluene	600	1,000	-	< 1	< 1	< 1	< 1	< 1
Total Xylenes	1,000	10,000	-	**2.13 J**	< 3	NA	< 3	< 3
Trans-1,2-Dichloroethene	100	100	-	< 1	< 1	< 1	< 1	< 1
Trans-1,3-Dichloropropene	1	NLE	-	< 1	< 1	< 1	< 1	< 1
Trichloroethene	1	5	-	< 1	< 1	< 1	< 1	< 1
Trichlorofluoromethane	2,000	NLE	-	< 1	< 1	< 1	< 1	< 1
Vinyl chloride	1	2	-	< 1	< 1	< 1	< 1	< 1
TIC VOCs (µg/l)								
Total TIC, Volatile	500	NLE	-	**5.2 JN**	ND	ND	ND	ND
Inorganics (µg/l)								
Lead	5	15	22.7	< 2	< 2	NA	< 2	< 2

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