



New Jersey Department of Environmental Protection
Site Remediation Program

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

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

Documents:

- "Letter Work Plan Addendum for the FTMM-54 Area at FTMM-18, Fort Monmouth, New Jersey"
(June 2016)

PERSON RESPONSIBLE FOR CONDUCTING THE REMEDIATION INFORMATION AND CERTIFICATION

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

Representative First Name: William

Representative Last Name: Colvin

Title: Fort Monmouth BRAC Environmental Coordinator (BEC)

Phone Number: (732) 380-7064

Ext: _____

Fax: _____

Mailing Address: P.O. Box 148

City/Town: Oceanport

State: NJ

Zip Code: 07757

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

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

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

Signature: _____

Date: _____

William R. Colvin

28 June 2016

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



DEPARTMENT OF THE ARMY

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

June 28, 2016

Ms. Linda Range
New Jersey Department of Environmental Protection
Bureau of Case Management
401 East State Street
PO Box 420/Mail Code 401-05F
Trenton, NJ 08625-0028

**SUBJECT: Letter Work Plan Addendum for the FTMM-54 Area at FTMM-18,
Fort Monmouth, New Jersey**

Dear Ms. Range:

The purpose of this Work Plan Addendum is to describe the supplemental environmental investigation of a portion of Installation Restoration Program (IRP) Site FTMM-54 (Building 296 Gasoline Underground Storage Tanks [USTs]) located within the general area of FTMM-18 (M18 Landfill). Additional soil sampling will be performed to supplement previous post-excavation soil sampling from the Former Fuel Distribution Piping Excavation Area (see **Figure 1**). This area was specifically excluded from unrestricted use by the New Jersey Department of Environmental Protection (NJDEP) in their No Further Action (NFA) approval letter for FTMM-54 dated May 4, 2016, pending additional soil characterization.

FTMM-54 was a former fuel distribution facility with 12 gasoline and diesel USTs located near Building 296, and associated fuel distribution piping extending northward to the western portion of the FTMM-18 landfill. During the removal of USTs and associated below-ground piping in 1993 to 1994, an unspecified volume of petroleum-contaminated soil was also excavated and removed from the Former Fuel Distribution Piping Excavation Area. Soil samples were collected from the side walls of the excavation and analyzed for volatile organic compounds (VOCs), Total Petroleum Hydrocarbons (TPH), and lead. The excavation was backfilled with gravel, and then monitor wells were installed in 1994, including well 296MW06 (**Figure 1**).

Landfill delineation test pits were excavated in the vicinity of the Former Fuel Distribution Piping Excavation Area in 2009 and 2015, and petroleum odors and elevated photoionization detector (PID) readings were noted in nearby test pits 9, 9A, and 11 (**Figure 2**). Native soil within the area was typically observed as brown, gray or black silty sand to a depth of at least 5 ft below ground surface (bgs), and groundwater was typically encountered within 2 to 3 ft bgs. Blue gravel used as backfill was present within the Former Fuel Distribution Piping Excavation Area, and was typically encountered from 1 to 4 ft bgs in test pits.

Additional soil samples within the Former Fuel Distribution Piping Excavation Area will be collected to supplement the previous perimeter soil samples collected in 1994, and to better characterize soil in this area due to benzene concentrations in groundwater above the GWQS in

monitor well 296MW06. Two primary Geoprobe borings (M-54-SB-01 and M-54-SB-02) will be installed (**Figure 3**), and two soil samples will be collected from each boring below the backfill material described as "blue gravel" in test pit logs. Groundwater will not be sampled from these borings but is monitored annually for VOCs in wells 296MW04 and 296MW06.

Each Geoprobe boring will be completed to 8 ft bgs, which is estimated to extend below the water table (expected at approximately 2.5 ft bgs) and below the blue gravel backfill (expected from near the ground surface to approximately 3 to 4 ft bgs). Two soil samples will be collected from each primary boring as described below:

- A soil sample will be collected from the soil interval representative of native soil immediately underlying the blue gravel (estimated at approximately 4.0-4.5 ft bgs), or from the most contaminated soil interval encountered below the blue gravel based on field evidence (visual, petroleum odor, or PID screening).
- A second soil sample will be collected from a deeper interval that is below the sample described above, and below any field evidence of contamination, to delineate vertical extent; this sample is anticipated to be collected from 7.0 to 7.5 ft bgs.

Additional contingency Geoprobe borings will be advanced if field indications of hydrocarbon contamination (such as staining, petroleum odor or elevated PID readings) are present in either of the two primary borings (**Figure 3**). The goal of the contingency borings is to delineate the extent of petroleum contamination. If contingency borings are sampled, then two soil samples will be collected from each boring at the same depths as described above for the primary borings.

Each soil sample will be analyzed for extractable petroleum hydrocarbons (EPH), VOCs plus tentatively identified compounds (TICs) including 1,2-dibromoethane and 1,2-dichloroethane, and for lead. A minimum of 25 percent of the samples with EPH concentrations greater than 1000 mg/kg will also be analyzed for 2-methylnaphthalene and naphthalene. These soil analyses are consistent with the requirements for leaded gasoline and for diesel fuel in Table 2-1 of the NJAC 7:26E Technical Requirements for Site Remediation. A summary of the soil and groundwater sampling and analysis is presented in **Table 1**.

We look forward to your review of this proposed sampling plan, and approval or additional comments. The technical Point of Contact (POC) for this matter is Kent Friesen at (732) 383-7201 or by email at kent.friesen@parsons.com. Should you have any questions or require additional information, please contact me by phone at (732) 380-7064 or by email at william.r.colvin18.civ@mail.mil.

Sincerely,



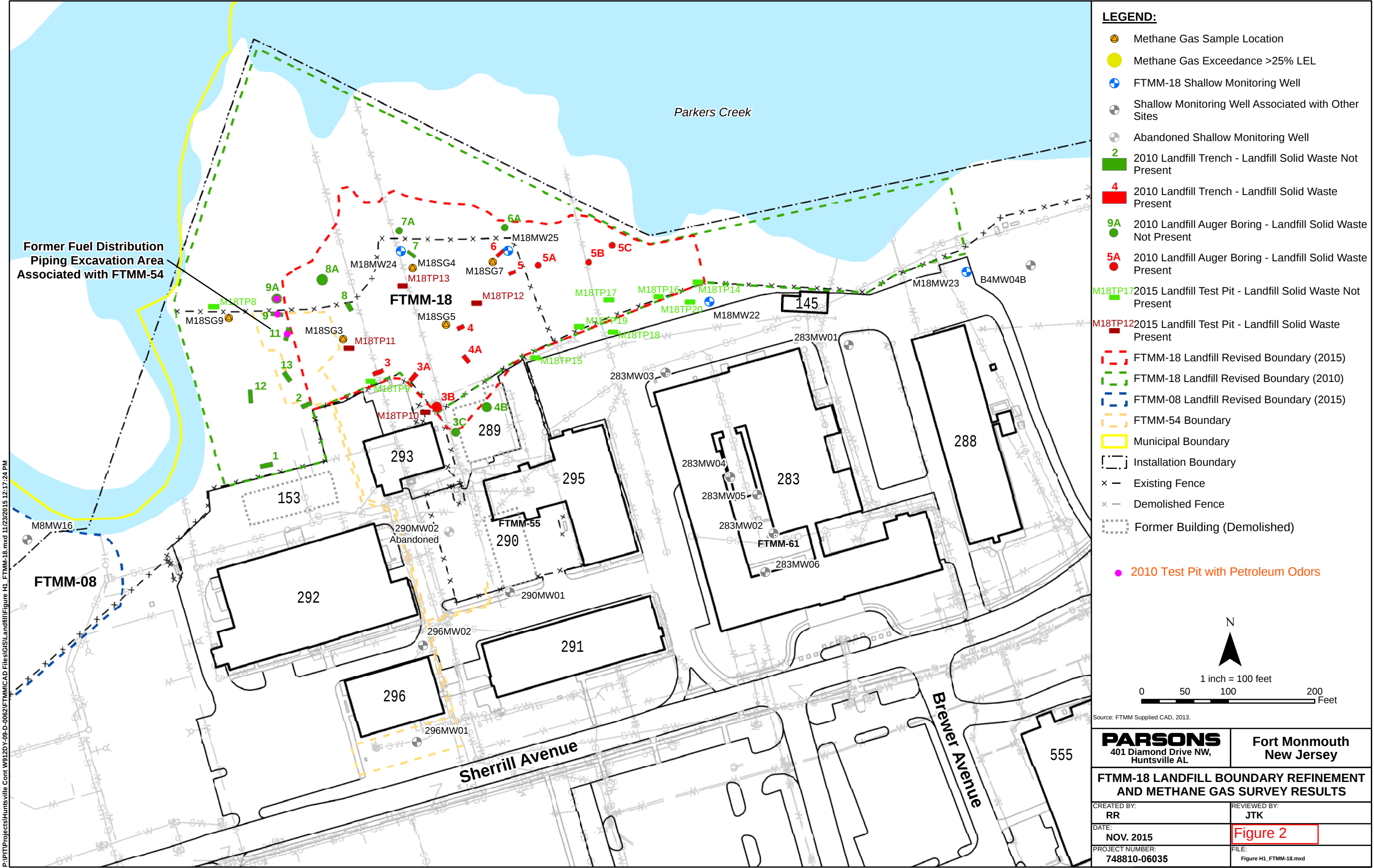
William R. Colvin, PMP, CHMM, PG
BRAC Environmental Coordinator

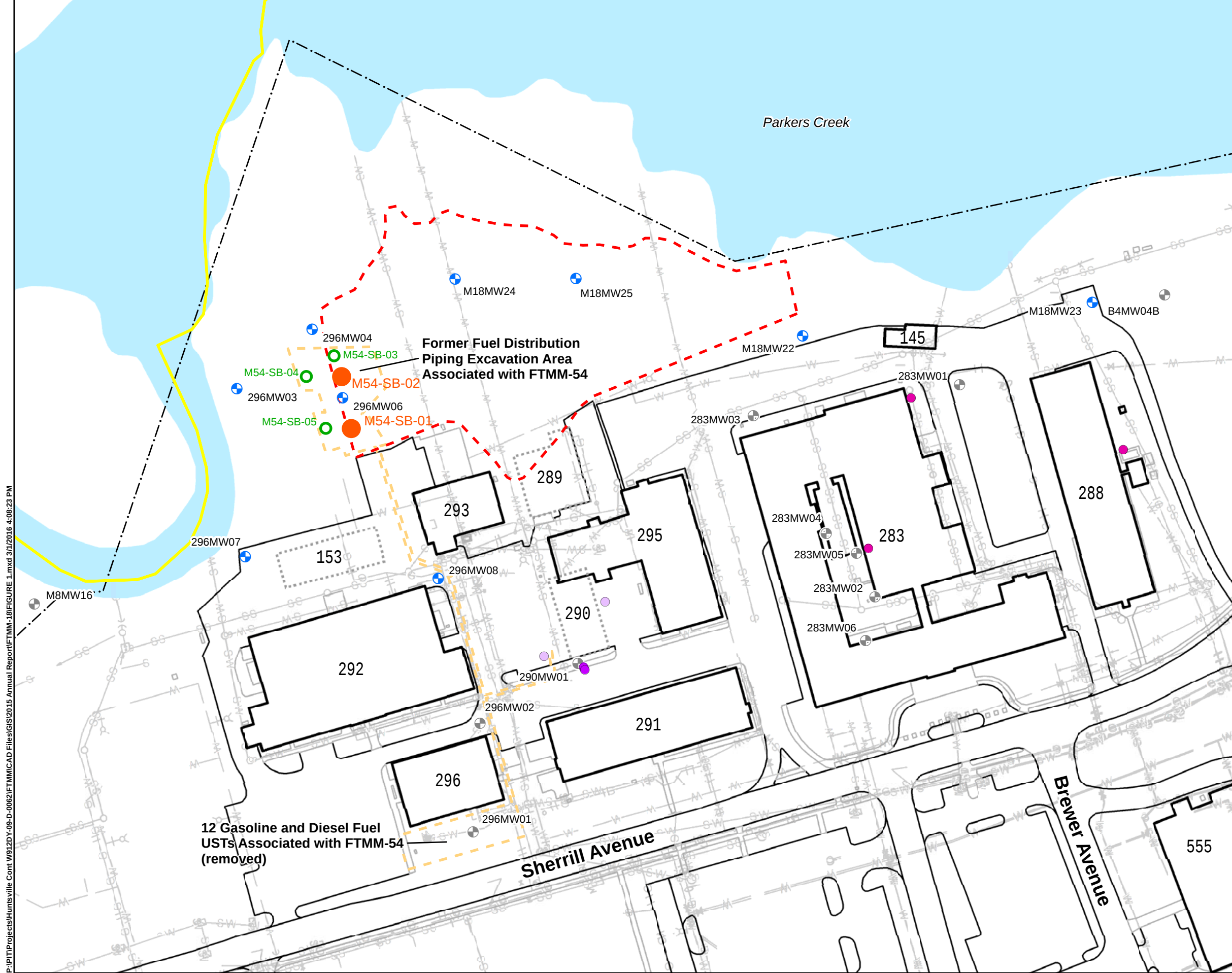
Linda S. Range, NJDEP
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Attachments:

Figure 1 FTMM-54 Post-Excavation Soil Sample Locations
Figure 2 FTMM-18 Landfill Boundary Refinement and Methane Gas Survey Results
Figure 3 Proposed Sample Locations for FTMM-54 within the FTMM-18 Area
Table 1 Sampling Summary for FTMM-54 at FTMM-18 Work Plan Addendum

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





LEGEND:

- Shallow Monitoring Well
- Shallow Monitoring Well Associated with FTMM-54 / FTMM-55 / FTMM-61
- Removed Fiberglass UST associated with FTMM-55 (Building 290)
- Removed Steel UST associated with FTMM-55 (Building 290)
- Removed Steel UST associated with FTMM-61 (Building 283)
- FTMM-18 Landfill Revised Boundary (2015)
- FTMM-54 Boundary
- Municipal Boundary
- Installation Boundary
- W Water Line
- S Sanitary Sewer Line
- SW Storm Sewer Line
- G Gas Line
- Former Building (Demolished)
- Primary Soil Boring
- Contingency Soil Boring (see text)

DRAFT

N

1 inch = 100 feet

0 50 100 200 Feet

Source: FTMM Supplied CAD, 2013.

PARSONS
401 Diamond Drive NW,
Huntsville AL

Fort Monmouth
New Jersey

**Proposed Sample Locations for
FTMM-54 within the FTMM-18 Area**

CREATED BY:
RR

REVIEWED BY:
ME

DATE:
MAR. 2016

Figure 3

PROJECT NUMBER:
748810-01000

FILE:
FIGURE 1.mxd

TABLE 1
SAMPLING SUMMARY FOR FTMM-54 AT FTMM-18 WORK PLAN ADDENDUM
FORT MONMOUTH, NEW JERSEY

Site	Location	Field Meter Readings ^{a/}	VOCs + TICs by Method 8260C ^{b/}	Lead by Method 6010C ^{c/}	Fractionated EPH ^{d/}
Soil					
FTMM-54	Primary Borings (Figure 3): 2 soil borings, 2 samples each.	2 borings	4	4	4
FTMM-54	Contingency Borings (Figure 3): 3 soil borings, 2 samples each.	3 borings	6	6	6
QA/QC samples (see SAP for additional details) ^{e/}					
Field Duplicates (5% Sampling Frequency per media)		NA	1	1	1
Matrix Spike (5% Sampling Frequency per media)		NA	1	1	1
Matrix Spike Duplicate (5% Sampling Frequency per media)		NA	1	1	1
Trip Blank (1 per cooler of VOCs per media)		NA	1	0	0
QA Split (5% per media)		NA	1	1	1
Equipment Blank (5% Sampling Frequency per media)		NA	1	1	1
TOTAL		NA	16	15	15

Notes:

NA = not applicable.

^{a/} Field meter readings include, in soil samples: photoionization detector (PID) readings along entire soil column; and in groundwater: PID headspace, pH, temperature, electrical conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity.

^{b/} VOCs = volatile organic compounds; TICs = tentatively identified compounds; must include 1,2-dibromoethane and 1,2-dichloroethane.

^{c/} Metals analysis will be limited to lead.

^{d/} EPH = extractable petroleum hydrocarbons. If any EPH concentrations in soil exceed 1000 mg/kg in any of the site samples, the minimum 25% of the samples where EPH exceeds 1000 mg/kg will also be analyzed for 2-methylnaphthalene and naphthalene.

^{e/} QA/QC = quality assurance/quality control; SAP = Sampling and Analysis Plan. The requirement for QA/QC samples may be fulfilled with samples from other parcels.