



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:

- "Parcel 72 Select Unregulated Heating Oil Tanks (UHOTs) Work Plan Addendum, Fort Monmouth, New Jersey" (July 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: _____

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

01 July 2016



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

July 1, 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: Parcel 72 Select Unregulated Heating Oil Tanks (UHOTs) Work Plan Addendum
Fort Monmouth, New Jersey**

Attachments:

- Table 1 Summary of Select Parcel 72 UHOTs
- UST Removal Reference Map (Grid C2)
- Table 2 Summary of Proposed Sampling for Parcel 72
- Figure 1 Proposed Sampling for Parcel 72

Dear Ms. Range:

The U.S. Army Fort Monmouth (FTMM) has reviewed existing file information for underground storage tank (UST) sites at Fort Monmouth within Environmental Condition of Property (ECP) Parcel 72. The purpose of this review was to ensure that potential environmental issues associated with former UST sites within Parcel 72 have been adequately addressed to facilitate Phase II property transfer.

All of the Parcel 72 USTs are residential unregulated heating oil tanks (UHOTs), such as single family homes, apartments or barracks. Residential UHOTs are exempt from UST regulations (New Jersey Administrative Code [NJAC] 7:14B-1.4 [b][3]). However, the Army anticipates requesting a No Further Action (NFA) determination from the New Jersey Department of Environmental Protection (NJDEP) for Parcel 72 residential UHOTs within a future submittal to facilitate property transfer.

Upon review of Parcel 72 closure sample analytical data, five former UHOTs (USTs 211, 212, 220B, 226, and 228B) were identified with data needs that required additional field sampling, as summarized below. This Work Plan Addendum describes the proposed field sampling for these five Parcel 72 UHOT sites. Detailed field procedures are described in the approved March 2013 *Final Sampling and Analysis Plan* (SAP).

Attached Table 1 describes the tank characteristics for each of these five UHOT sites. The Army's recorded locations of these UHOTs are shown in the attached UST Removal Reference Map. All of these UHOTs except UST 228B were previously removed. Following is a summary of these UHOTs and the associated data needs:

- UST 211 was located at 4 Russel Avenue on the east side of Building 211. This tank was removed in 2001, and TPH concentrations up to 3,968 milligrams per kilogram (mg/kg) were reported in closure soil samples, which may indicate a release but is less than the 5,100 mg/kg human health based remedial goal for Extractible Petroleum Hydrocarbons (EPH). Analyses for volatile organic compounds (VOCs) were also performed on the sample with the highest TPH concentrations, in accordance with then-current protocol; the only VOC detected was acetone, which is a common laboratory-derived contaminant. Proposed field sampling will include collection of a groundwater sample from a temporary well installed at the former location of the tank to determine if a fuel oil release has impacted groundwater.
- UST 212 was located at 8 Russel Avenue on the east side of Building 212. This tank was removed in 2001; closure soil samples were collected and analyzed. However, the associated analytical data have not been found, and therefore soil samples will be collected from one boring using a Geoprobe to determine if a release has occurred. Also, a groundwater sample from a temporary well will be collected from the same boring to determine if there has been an impact to groundwater.
- UST 220B was located at 34 Russel Avenue on the west side of Building 220. This tank was removed in 2001. Initial soil TPH concentrations were up to 3,224 mg/kg. After removal of the contaminated soil, TPH was not detected. Analyses for VOCs were also performed on the sample with the highest TPH, in accordance with then-current protocol; no VOCs were detected. Proposed field sampling will include collection of a groundwater sample from a temporary well installed at the former location of the tank to determine if a fuel oil release has impacted groundwater.
- UST 226 was located at 9 and 10 Allen Avenue near Building 226. This tank was removed in 2000 and TPH concentrations up to 3,915 mg/kg were encountered in closure soil samples. Analyses for VOCs were also performed on the sample with the highest TPH, in accordance with then-current protocol; the VOCs ethylbenzene and xylenes were detected, but concentrations were below the NJDEP Residential Direct Contact Soil Remediation Standards (RDCSRS). Proposed field sampling will include collection of a groundwater sample from a temporary well installed at the former location of the tank to determine if a fuel oil release has impacted groundwater.
- UST 228B (a steel UST) is located at 3 Allen Avenue near Building 228. This tank was located and uncovered in 2010, and then (due primarily to resource constraints) was covered with soil and left in place. Soil samples were collected along the service piping but not from the tank vicinity. Therefore, soil samples will be collected using a Geoprobe to determine if a release has occurred. Two soil borings will be placed near the tank (within 3 feet), with adequate spacing away from the tank to ensure that the integrity of the tank is not compromised. Also, a groundwater sample from a downgradient temporary well will be collected from the northern boring location (PAR-72-228-SB-01) to determine if there has been an impact to groundwater.

Proposed soil borings and temporary wells will be sampled and analyzed as summarized in Table 2 and Figure 1. Final sample locations may be adjusted in the field based on site conditions and site-specific understanding of the former locations of the UHOTs, with the intent of placing the boring within the former UST excavation (or within 10 feet downgradient). At each sample location, a Geoprobe® boring will be completed to approximately 4 feet below the water table (groundwater is

estimated at approximately 10 feet below ground surface). Soil and groundwater samples will be collected from the Geoprobe boring as indicated in Table 2 for each UST site.

Soil samples from the UST 212 and UST 228 soil borings will be collected to assess current concentrations and vertical extent of EPH. Two soil samples will be collected from each boring. At each boring, a sample will be collected from approximately 5.0-5.5 feet below ground surface (ft bgs; or another interval representative of the vadose zone below the removed tank), and from a deeper 6-inch interval just above the water table. One of these two soil samples will be collected from the most contaminated interval encountered based on field evidence (visual, olfactory, or photoionization detector [PID] screening). If there is no field evidence of petroleum contamination, then the two soil samples will be collected from 5.0-5.5 ft bgs and from just above the water table (estimated at 10.0-10.5 ft bgs). Each soil sample will be analyzed for total EPH, with additional contingency semivolatile organic compounds (SVOCs) analysis (25 percent) for naphthalene and 2-methylnaphthalene in the event that EPH concentrations exceed 1,000 mg/kg. These soil analyses are consistent with the requirements for No. 2 fuel oil in Table 2-1 of the NJAC 7:26E Technical Requirements for Site Remediation.

Groundwater will be sampled using temporary wells within the Geoprobe borings, and then the borings will be abandoned. Each groundwater sample will be analyzed for VOCs and SVOCs plus tentatively identified compounds (TICs), which is consistent with the requirements for No. 2 fuel oil in Table 2-1 of the NJAC 7:26E Technical Requirements for Site Remediation.

We look forward to your review and approval of or comments on this submittal. The technical Point of Contact (POC) 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,

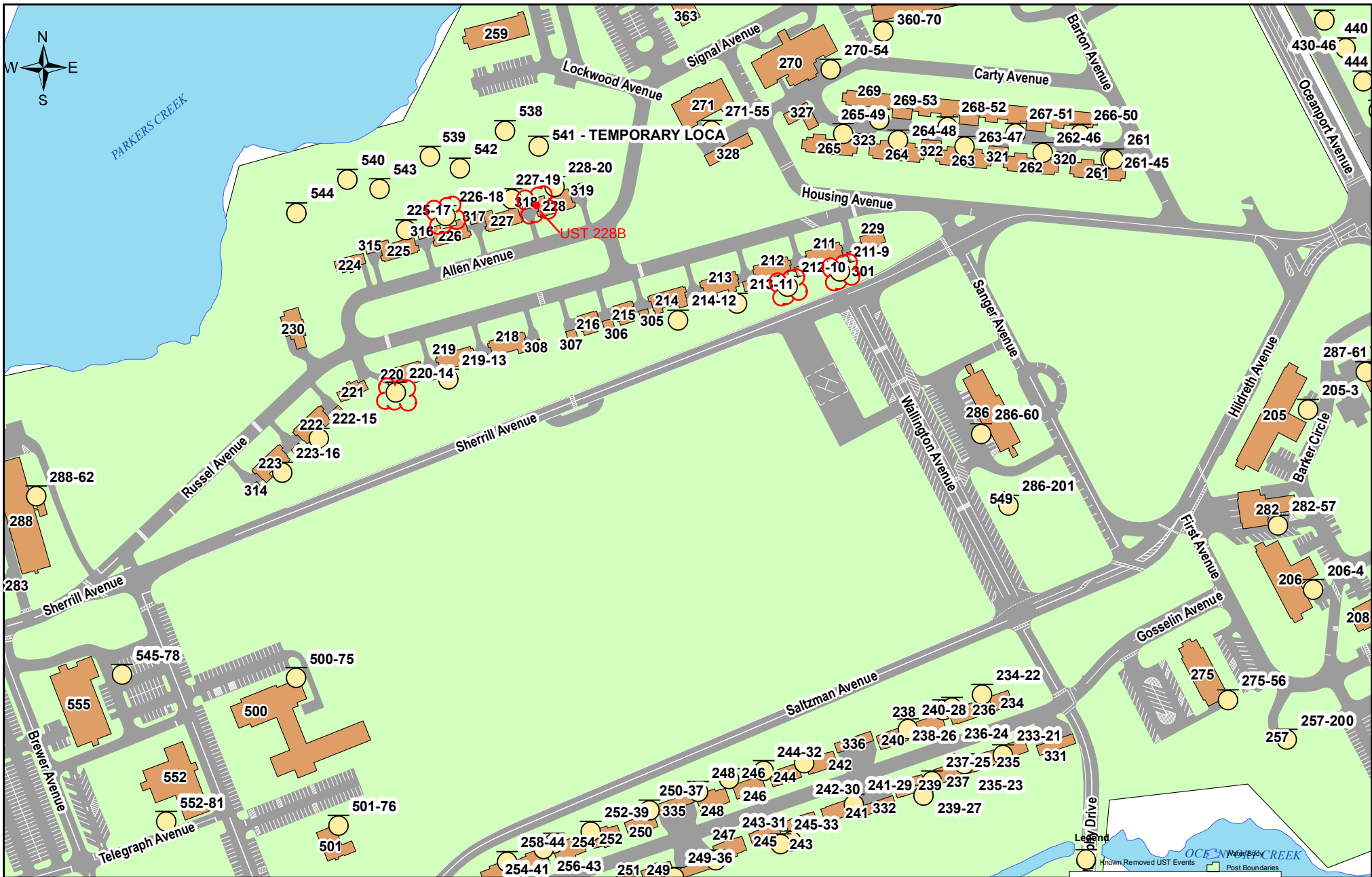


William R. Colvin, PMP, PG, CHMM
BRAC Environmental Coordinator

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)

Table 1
Summary of Select Parcel 72 UHOTs

Site Name	Residential?	Registration ID	DICAR	Tank Size and Type	Product	Comments on Current or Requested NJDEP Status
211	YES	81533-9	None	2,000 gallon fiberglass	#2 FUEL OIL	Collect groundwater sample due to TPH>1000 mg/kg
212	YES	81533-10	None	2,000 gallon fiberglass	#2 FUEL OIL	Sample soils and groundwater to determine if release has occurred
220B	YES	81533-14	None	2,000 gallon; fiberglass?	#2 FUEL OIL	Collect groundwater sample due to TPH>1000 mg/kg
226	YES	81533-18	None	2,000 gallon fiberglass	#2 FUEL OIL	Collect groundwater sample due to TPH>1000 mg/kg
228B	YES	None	None	1,000 gallon steel	#2 FUEL OIL	Steel tank confirmed present



UST Removal Reference Map Grid C2; Main Post Fort Monmouth, New Jersey **FOUO**



UST subject to this Work Plan

- Map Created by:
Fort Monmouth Installation GIO, Environmental Division
Fort Monmouth, New Jersey
Date: August 10, 2011
All drawings must be field verified.
New Jersey State Plane Feet, NAD83
- Known, Removed UST Events
 - Reference Map Links
 - Demolished Building
 - Existing Building
 - Roadway & Parking

Map Created by:
Fort Monmouth Installation GIO, Environmental Division
Fort Monmouth, New Jersey
Date: August 10, 2011
All drawings must be field verified.
New Jersey State Plane Feet, NAD83

TABLE 2
SUMMARY OF PROPOSED SAMPLING FOR PARCEL 72
FORT MONMOUTH, NEW JERSEY

Location ID	Location	Field Meter Readings ^{a/}	Unfractionated EPH ^{b/}	VOCs + TICs by Method 8260C ^{c/}	SVOCs + TICs by Method 8270C ^{d/}
Soil					
PAR-72-212-SB-01	Building 212 (Figure 1): 1 soil boring, 2 samples.	1 boring	2	0	0
PAR-72-228-SB-01	Building 228 (Figure 1): 1 soil boring, 2 samples.	1 boring	2	0	0
PAR-72-228-SB-02	Building 228 (Figure 1): 1 soil boring, 2 samples.	1 boring	2	0	0
Groundwater					
PAR-72-211-TMW-01	Building 211 (Figure 1): 1 temporary well, 1 sample.	1 well	0	1	1
PAR-72-212-TMW-01	Building 212 (Figure 1): 1 temporary well, 1 sample.	1 well	0	1	1
PAR-72-220-TMW-01	Building 220/UST 220B (Figure 1): 1 temporary well, 1 sample.	1 well	0	1	1
PAR-72-226-TMW-01	Building 226 (Figure 1): 1 temporary well, 1 sample.	1 well	0	1	1
PAR-72-228-TMW-01	Building 228 (Figure 1): 1 temporary well, 1 sample.	1 well	0	1	1
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	0	1	0
QA Split (5% per media)		NA	1	1	1
Equipment Blank (5% Sampling Frequency per media)		NA	1	1	1
TOTAL		NA	11	11	10

Notes:

NA = not applicable.

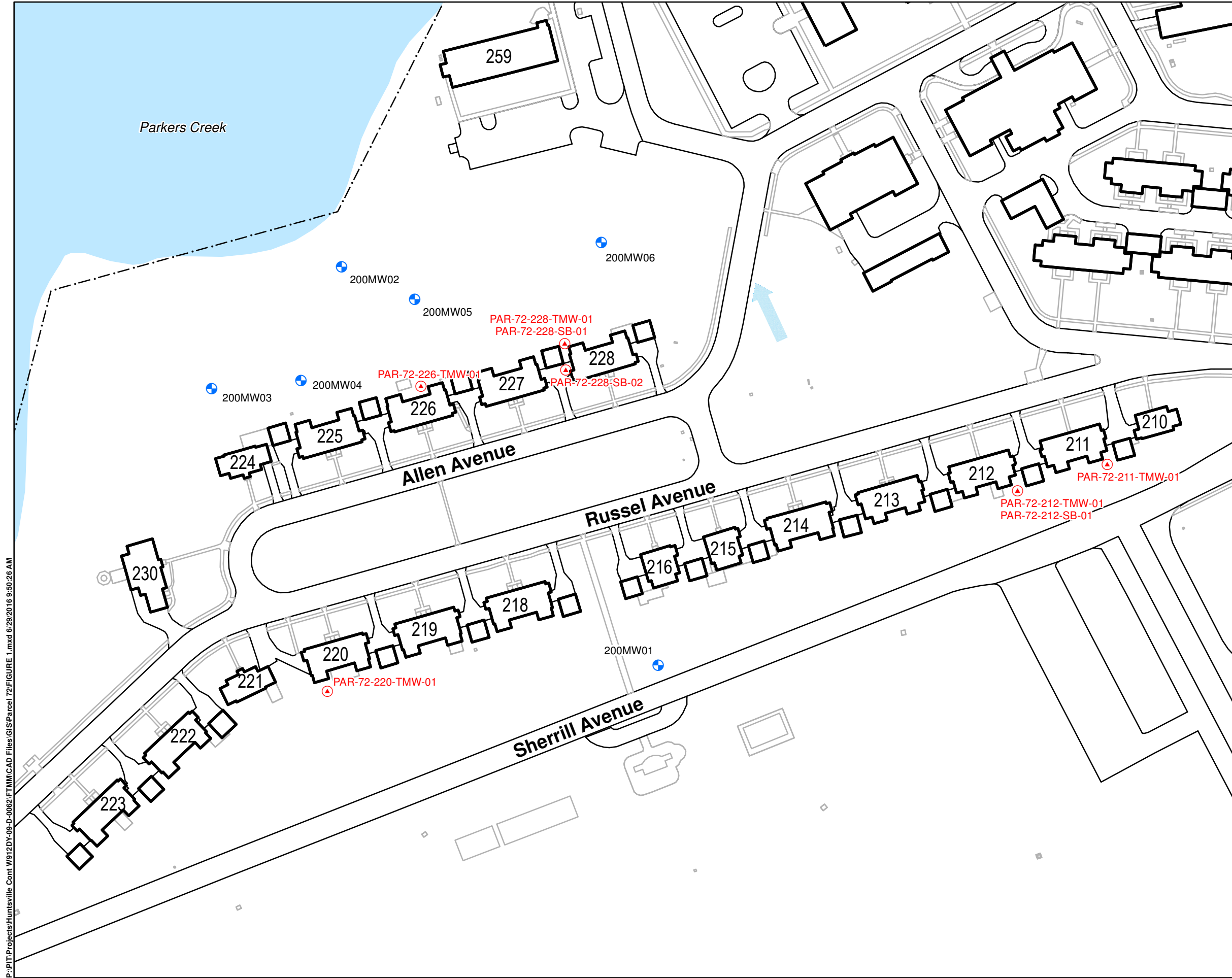
^{a/} Field meter readings include, in soil samples: photoionization detector (PID) readings along entire soil column; and in groundwater: PID headspace, pH, temperature, electrical conductivity, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity.

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

^{c/} VOCs = volatile organic compounds; TICs = tentatively identified compounds.

^{d/} SVOCs = semivolatile organic compounds; TICs = tentatively identified compounds.

^{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.



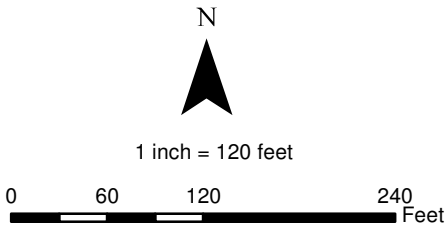
P:\PTT\Projects\Huntsville Cont W912\DY-09-P-0062\FTMM\CAD Files\GIS\Parcel 72\FIGURE 1.mxd 6/29/2016 9:50:26 AM

LEGEND:

- Proposed Groundwater Sample
- Shallow Monitoring Well
- Installation Boundary
- Generalized Groundwater Flow Direction

NOTE:

- Steel tank is present at Building 228.
- Field locate final sample locations based on site features to sample within 10 feet of former or existing tanks.



Source: FTMM Supplied CAD, 2013.

PARSONS 401 Diamond Drive NW, Huntsville AL	Fort Monmouth New Jersey
PROPOSED SAMPLING FOR PARCEL 72	
CREATED BY: RR	REVIEWED BY: KF
DATE: JUN. 2016	FIGURE NUMBER: FIGURE 1
PROJECT NUMBER: 748810-01000	FILE: FIGURE 1.mxd