



**U.S. Army Corps
of Engineers**

Omaha District

Fort Lee, Virginia

Final Analytical Results Document for the
**Preliminary Assessment/
Site Investigation**

March 1992

JMM James M. Montgomery



**FORT LEE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FINAL ANALYTICAL RESULTS DOCUMENT**

**Attachment to
Fort Lee Preliminary Assessment/Site Investigation Report
Fort Lee, Virginia**

Prepared for:

**U.S. Army Corps of Engineers
Missouri River Division
Omaha District
Omaha, Nebraska**

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**FORT LEE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FINAL ANALYTICAL RESULTS DOCUMENT**

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1.0 INTRODUCTION

James M. Montgomery, Consulting Engineers, Inc. (JMM) is the prime Architect-Engineer (A-E) contracted by the U.S. Army Corps of Engineers (USACE) to perform a Preliminary Assessment/Site Investigation (PA/SI) under Contract No. DACW45-89-D-0501, Delivery Order No. 0016, at eight sites at the Fort Lee Military Reservation, Hopewell, Virginia (Fort Lee).

This *Fort Lee Final Analytical Results Document (FTLFARD)* specifically addresses the eight PA/SI sites located at Fort Lee and the associated background borings and field water sampling program. This document is a companion document to the *Fort Lee Preliminary Assessment/Site Investigation Report (PA/SI)*.

The *FTLFARD* summarizes the analytical results at each of the sites in Sections 2 through 9. All results for soil and sediment are presented on a wet weight and dry weight basis. The dry weights are calculated using the laboratory results which are presented on a wet weight basis and converting to dry weight basis using the results of the total solids analysis. This is in accordance with *Minimum Chemistry Data Reporting Requirements for DERP and Superfund HTW Projects* (USACE, 1989). All results in the *Fort Lee PA/SI Report* are presented on a dry weight basis.

Only those analytes found above detection limits in at least one site media sample are listed in the individual site tables. Samples which were detected above trigger levels are highlighted along with the associated trigger level. If no compounds were detected above the detection limit, the sample is indicated as "ND" to signify that the analysis was run but that no compounds were detected above the detection limit. Information presented in the *FTLFARD* site media tables includes the results of duplicate samples, identification of dilutions, instances when analytes were found in blanks, resampling results and final field parameter results.

1.1 SAMPLE IDENTIFICATION

Each sample collected during the PA/SI was assigned a unique identifier in the field to identify its point of origin. The sample identifiers presented in this *FTLFARD* are organized into a 4-cell code as follows:

| <u>CELL 1</u> | <u>CELL 2</u> | <u>CELL 3</u> | <u>CELL 4</u> |
|---------------|-------------------|---------------|---------------|
| <u>LMB</u> | <u>MW1604</u> | <u>(10)</u> | <u>D</u> |
| Site Location | Sample Identifier | Depth | QA/QC |

Cell 1: Cell 1 contains a 3-digit code, beginning with the installation location (i.e., L for Fort Lee), followed by the site designations for the specific sampling sites.

- MB = Maintenance Buildings
- MF = Military-in-the-Field
- LF = Landfill 10
- DR = Open Detonation Range
- FT = Inactive Fire Training Area
- RL = Reformatory Road Landfill
- UT = Block 4100-Former UST Location
- OR = The Outdoor Recreation Area
- FW = Field Water Sources
- BB = Background Boring

Cell 2: Cell 2 contains a maximum 6-digit code, of which the first 2 digits delineate the type of sample using the following abbreviations:

MW = Groundwater sample
 SW = Surface water sample
 MS = Monitoring well soil sample
 SD = Sediment sample
 SB = Soil boring soil sample
 BW = Base water supply sample
 DW = Deionized Water

The 6-digit sample designation for Cell 2 continues with a four-character representation (i.e., xxyy), following the letter designation, stipulating the specific location of the sample. The first two characters of this four-character representation (i.e., xx) correspond to the delivery order number under which the work is being performed. The second two characters represent the sampling location number. For example, sample LMB MW 1604 is a groundwater sample from Monitoring Well 4 at the Fort Lee Maintenance Buildings site, collected under Delivery Order Number 0016.

Cell 3: Cell 3 delineates the depth from which a soil sample is collected. This cell was not utilized for groundwater, sediment, or surface water samples. For soil samples collected from different depths at the same location, the depth at which the sample was collected was delineated by denoting the sample depth (in feet) within parentheses after the location designation. For example, LMB MS 1604(5) designates a soil sample from Monitoring Well 4 collected at the Fort Lee Maintenance Buildings site at a depth of 5 feet under Delivery Order Number 0016.

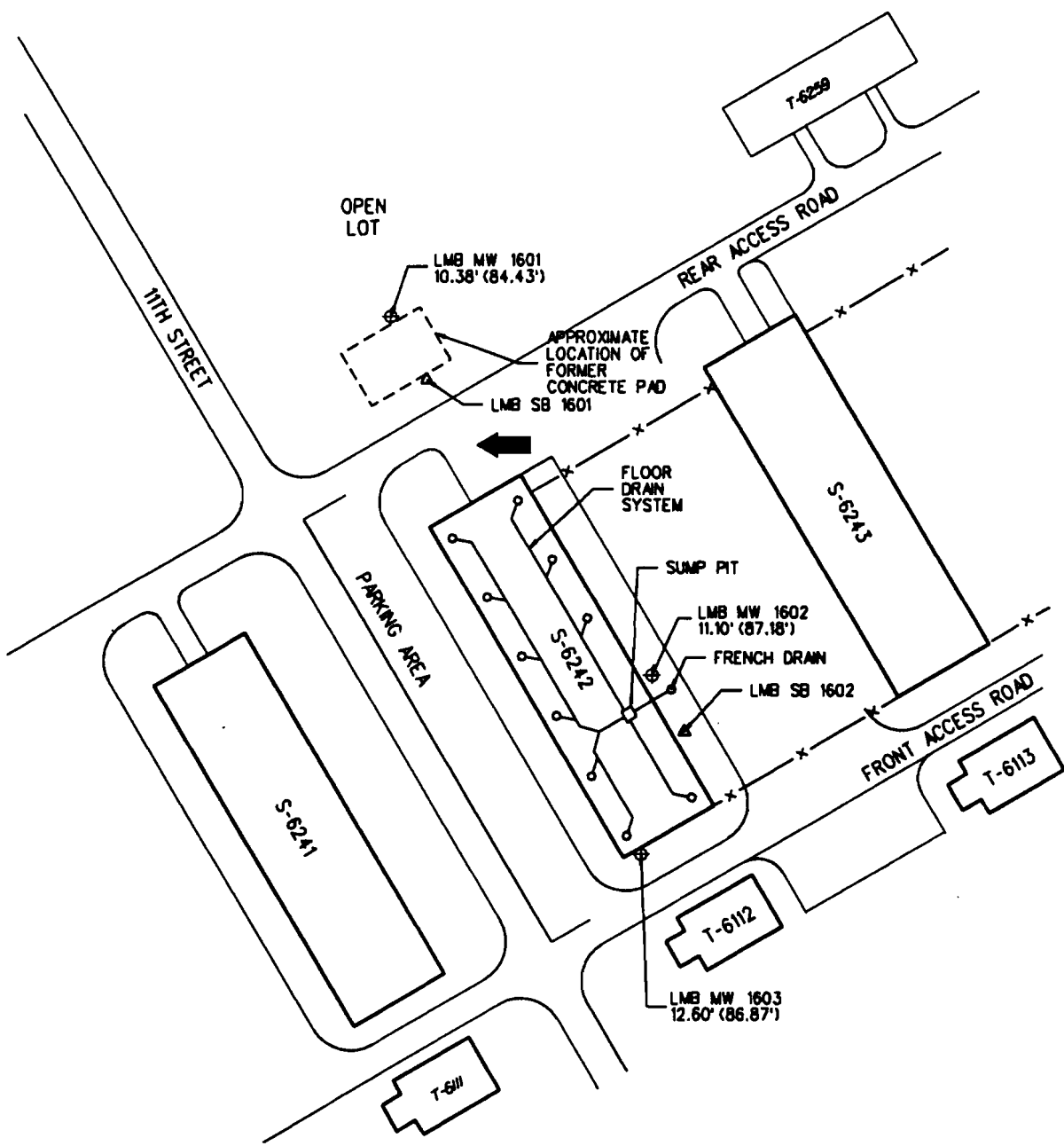
Cell 4: Cell 4 delineates information regarding resampling and QA/QC samples. Resamples will have the identifier "RX" associated with it. Duplicate samples are identified with the character "D."

RX = Resample
 D = Duplicate Sample

Specific analytical results for each of the environmental media investigated at each site, by site and by media, are presented in the following tables. For analytical data, all data greater than or equal to the trigger level for the analyte is signified by bold-face type, e.g. **25**. The trigger level is presented as a bracketed number, e.g. (5). Trigger levels are explained in Section 2.2 of the *Fort Lee PA/SI Report*.

Background boring and source water analytical results are presented in Sections 10 and 11. The MRLs used during the analysis of the samples for the Fort Lee PA/SI sites appear in Section 12.

2.0 Maintenance Buildings - MB Site



LEGEND

- △ SOIL BORING LOCATION
- ⊕ MONITORING WELL INSTALLED AT SOIL BORING LOCATION
- ▭ EXISTING BUILDING
- ← GENERAL GROUNDWATER FLOW DIRECTION
- 6.71' (2.26') — GROUNDWATER ELEVATION (FT, NGVD)
- DEPTH TO WATER TABLE (FT, TOC)



| | |
|---|--|
| PRELIMINARY ASSESSMENT/SITE INVESTIGATION FORT LEE, VA | |
| SAMPLING LOCATIONS MAINTENANCE BUILDING - MB SITE | |
| JMM James M. Montgomery | |
| | |

TABLE 2-SS

SOIL SAMPLES - MB SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LMB MS1601(0) Wet Weight (mg/kg) | LMB MS1601(0) Dry Weight(c) (mg/kg) | LMB MS1601(0)D Wet Weight (mg/kg) | LMB MS1601(0)D Dry Weight (mg/kg) | LMB MS1601(0)RX(a) Wet Weight (mg/kg) | LMB MS1601(0)RX Dry Weight (mg/kg) | LMB MS1601(0)RXD Wet Weight (mg/kg) | LMB MS1601(0)RXD(b) Dry Weight (mg/kg) |
|--------------------|---|--|--|--|--|---|--|---|
| Pesticide/PCBs | ND (d) | ND | ND | ND | NA (e) | NA | NA | NA |
| VOCs | | | | | | | | |
| Ethylbenzene | <0.01 | <0.01 | <0.01 | <0.01 | NA | NA | NA | NA |
| Trichloroethene | <0.01 | <0.01 | <0.01 | <0.01 | NA | NA | NA | NA |
| Toluene | <0.01 | <0.01 | <0.01 | <0.01 | NA | NA | NA | NA |
| m,p-Xylenes | <0.01 | <0.01 | <0.01 | <0.01 | NA | NA | NA | NA |
| o-Xylene | <0.01 | <0.01 | <0.01 | <0.01 | NA | NA | NA | NA |
| BNAs | | | | | | | | |
| Napthalene | NR(f) | NR | NR | NR | <1.0 | <1.0 | <1.0 | <1.0 |
| Phenanthrene | NR | NR | NR | NR | <1.0 | <1.0 | <1.0 | <1.0 |
| 2-Methylnapthalene | NR | NR | NR | NR | <1.0 | <1.0 | 1.0 | 1.1 |
| TFH-L | 2.8 | 2.9 | 1.1 | 1.1 | NA | NA | NA | NA |
| TFH-H | <10 | NA | <10 | NA | NA | NA | NA | NA |
| Metals | | | | | | | | |
| Arsenic(Total) | <10 | <10 | <10 | <10 | NA | NA | NA | NA |
| Barium(Total) | 44 | 44.9 | 39 | 39.8 | NA | NA | NA | NA |
| Beryllium(Total) | <0.5 | <0.5 | 0.6 | 0.6 | NA | NA | NA | NA |
| Cadmium(Total) | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | NA | NA |
| Chromium(Total) | 9.3 | 9.5 | 5 | 5.1 | NA | NA | NA | NA |
| Copper(Total) | 10 | 10.2 | 10 | 10.2 | NA | NA | NA | NA |
| Lead(Total) | 24 | 24.5 | 16 | 16.3 | NA | NA | NA | NA |
| Mercury(Total) | 0.030 | 0.031 | <0.02 | <0.02 | NA | NA | NA | NA |
| Nicke(Total) | 5.2 | 5.3 | 5.2 | 5.3 | NA | NA | NA | NA |
| Zinc(Total) | 44 | 44.9 | 42 | 42.9 | NA | NA | NA | NA |
| Total Solids (%) | 98 | 100 | 98 | 100 | 94 | 100 | 93 | 100 |

TABLE 2-SS
(Continued)

SOIL SAMPLES - MB SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LMB MS1601(2) Wet Weight (mg/kg) | LMB MS1601(2) Dry Weight (mg/kg) | LMB MS1601(14) Wet Weight (mg/kg) | LMB MS1601(14) Dry Weight (mg/kg) | LMB MS1602(0) Wet Weight (mg/kg) | LMB MS1602(0) Dry Weight (mg/kg) | LMB MS1602(6) Wet Weight (mg/kg) | LMB MS1602(6) Dry Weight (mg/kg) |
|---------------------|---|---|--|--|---|---|---|---|
| Pesticide/PCBs | ND | ND | ND | ND | NA | NA | NA | NA |
| VOCs | | | | | | | | |
| Ethylbenzene | 0.17 | 0.20 (g) | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Trichloroethene | <0.05 | <0.05 (g) | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Toluene | <0.05 | <0.05 (g) | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| m,p-Xylenes | 0.08 | 0.10 (g) | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| o-Xylene | 0.08 | 0.10 (g) | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| BNAs | | | | | | | | |
| Naphthalene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Phenanthrene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 2-Methylnaphthalene | 1.1 | 1.31 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| TFH-L | 350 | 417 (100) | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| TFH-H | <10 | <10 | NA | NA | NA | NA | NA | NA |
| Metals | | | | | | | | |
| Arsenic(Total) | <10 | <10 | <10 | <10 | <10 | <10 | 12 | 14.6 |
| Barium(Total) | 21 | 25.0 | 49 | 59.8 | 30 | 32.3 | 16 | 19.5 |
| Beryllium(Total) | <0.5 | <0.5 | 0.5 | 0.6 | <0.5 | <0.5 | <0.5 | <0.5 |
| Cadmium(Total) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chromium(Total) | 7.2 | 8.6 | 14 | 17.1 | 7.5 | 8.1 | 11 | 13.4 |
| Copper(Total) | <1.0 | <1.0 | 8.6 | 10.5 | 2.8 (h) | 3.0 (h) | 3.1 (h) | 3.8(h) |
| Lead(Total) | <10 | <10 | <10 | <10 | 16 | 17.2 | <10 | <10 |
| Mercury(Total) | <0.02 | <0.02 | <0.02 | <0.02 | 0.03 | 0.0 | <0.02 | <0.02 |
| Nickel(Total) | <4.0 | <4.0 | 5.5 | 6.7 | 4.0 | 4.3 | <4.0 | <4.0 |
| Zinc(Total) | 6.2 | 7.4 | 16 | 19.5 | 16 | 17.2 | 8.4 | 10.2 |
| Total Solids (%) | 84 | 100 | 82 | 100 | 93 | 100 | 82 | 100 |

TABLE 2-SS

(Continued)

**SOIL SAMPLES - MB SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA**

| Parameter | LMB MS1602(12) Wet Weight (mg/kg) | LMB MS1602(12) Dry Weight (mg/kg) | LMB MS1603(0) Wet Weight (mg/kg) | LMB MS1603(0) Dry Weight (mg/kg) | LMB MS1603(8) Wet Weight (mg/kg) | LMB MS1603(8) Dry Weight (mg/kg) | LMB MS1603(12) Wet Weight (mg/kg) | LMB MS1603(12) Wet Weight (mg/kg) |
|---------------------|--|--|---|---|---|---|--|--|
| Pesticide/PCBs | NA | NA | NA | NA | NA | NA | NA | NA |
| VOCs | | | | | | | | |
| Ethylbenzene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Trichloroethene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Toluene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| m,p-Xylenes | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| o-Xylene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| BNAs | | | | | | | | |
| Naphthalene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Phenanthrene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 2-Methylnaphthalene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| TFH-L | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| TFH-H | NA | NA | NA | NA | NA | NA | NA | NA |
| Metals | | | | | | | | |
| Arsenic(Total) | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Barium(Total) | 10 | 12.2 | 16 | 19.05 | 12 | 14.6 | 16 | 18.0 |
| Beryllium(Total) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | 0.6 | 0.7 |
| Cadmium(Total) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chromium(Total) | 5.5 | 6.7 | 11 | 13.1 | 7.7 | 9.4 | 5.7 | 6.4 |
| Copper(Total) | 2.0 (h) | 2.0 (h) | 1.5 (h) | 1.8 (h) | 2.4 (h) | 2.9 (h) | 2.8 (h) | 3.1 (h) |
| Lead(Total) | <10 | <10 | <10 | <10 | <10 | <10 | 13 | 14.6 |
| Mercury(Total) | <0.02 | <0.02 | 0.06 | 0.07 | <0.02 | <0.02 | <0.02 | <0.02 |
| Nickel(Total) | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | 8.7 | 9.8 |
| Zinc(Total) | 6.4 | 7.8 | 7.5 | 8.93 | 4.6 | 5.6 | 7.9 | 8.9 |
| Total Solids (%) | 82 | 100 | 84 | 100 | 82 | 100 | 89 | 100 |

TABLE 2-SS
(Continued)

SOIL SAMPLES - MB SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LMB SB1601(0) Wet Weight (mg/kg) | LMB SB1601(0) Dry Weight (mg/kg) | LMB SB1601(0)RX Wet Weight (mg/kg) | LMB SB1601(0)RX Dry Weight (mg/kg) | LMB SB1601(2) Wet Weight (mg/kg) | LMB SB1601(2) Dry Weight (mg/kg) | LMB SB1601(2)RX Wet Weight (mg/kg) | LMB SB1601(2)RX Dry Weight (mg/kg) |
|---------------------|---|---|---|---|---|---|---|---|
| Pesticide/PCBs | ND | ND | NA | NA | ND | ND | NA | NA |
| VOCs | | | | | | | | |
| Ethylbenzene | <0.05 | 0.05 (g) | NA | NA | <0.05 | <0.05 (g) | NA | NA |
| Trichloroethene | 0.2 | 0.21 (g) | NA | NA | <0.05 | <0.05 (g) | NA | NA |
| Toluene | 0.1 | 0.10 (g) | NA | NA | <0.05 | <0.05 (g) | NA | NA |
| m,p-Xylenes | <0.05 | <0.05 (g) | NA | NA | <0.05 | <0.05 (g) | NA | NA |
| o-Xylene | <0.05 | <0.05 (g) | NA | NA | <0.05 | <0.05 (g) | NA | NA |
| BNAs | | | | | | | | |
| Naphthalene | NA | NA | 19 | 21.6 | NR | NR | <5.0 | <5.0 |
| Phenanthrene | NA | NA | 19 | 21.6 | NR | NR | <5.0 | <5.0 |
| 2-Methylnaphthalene | NA | NA | 110 | 125 | NR | NR | 21 | 22.6 |
| TFH-L | 0.86 | 0.89 | NA | NA | 140 | 159 (100) | NA | NA |
| TFH-H | <10 | <10 | <10 | <10 | <10 | <10 | NA | NA |
| Metals | | | | | | | | |
| Arsenic(Total) | <10 | <10 | NA | NA | <10 | <10 | NA | NA |
| Barium(Total) | 30 | 30.9 | NA | NA | 29 | 33.0 | NA | NA |
| Beryllium(Total) | <0.5 | <0.5 | NA | NA | <0.5 | <0.5 | NA | NA |
| Cadmium(Total) | <0.5 | <0.5 | NA | NA | <0.5 | <0.5 | NA | NA |
| Chromium(Total) | 12 | 12.4 | NA | NA | 10 | 11.4 | NA | NA |
| Copper(Total) | 26 | 26.8 | NA | NA | 4.6 | 5.2 | NA | NA |
| Lead(Total) | 39 | 40.2 | NA | NA | 24 | 27.3 | NA | NA |
| Mercury(Total) | 0.030 | 0.031 | NA | NA | 0.020 | 0.023 | NA | NA |
| Nicke(Total) | 9.1 | 9.4 | NA | NA | 4.0 | 4.5 | NA | NA |
| Zinc(Total) | 24 | 24.7 | NA | NA | 30 | 34.1 | NA | NA |
| Total Solids (%) | 97 | 100 | 88 | 100 | 88 | 100 | 93 | 100 |

TABLE 2-SS
(Continued)

SOIL SAMPLES - MB SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LMB SB1601(10) Wet Weight (mg/kg) | LMB SB1601(10) Dry Weight (mg/kg) | LMB SB1602(0) Wet Weight (mg/kg) | LMB SB1602(0) Dry Weight (mg/kg) | LMB SB1602(6) Wet Weight (mg/kg) | LMB SB1602(6) Dry Weight (mg/kg) | LMB SB1602(12) Wet Weight (mg/kg) | LMB SB1602(12) Dry Weight (mg/kg) |
|--------------------|--|--|---|---|---|---|--|--|
| Pesticide/PCBs | ND | ND | NA | NA | NA | NA | NA | NA |
| VOCs | | | | | | | | |
| Ethylbenzene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Trichloroethene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Toluene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| m,p-Xylenes | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| o-Xylene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| BNAs | | | | | | | | |
| Napthalene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Phenanthrene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| 2-Methylnapthalene | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| TFH-L | 1.7 | 2.0 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| TFH-H | 16.0 | 19.3 | NA | NA | NA | NA | NA | NA |
| Metals | | | | | | | | |
| Arsenic(Total) | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Barium(Total) | 31 | 37.3 | 35 | 37.2 | 15 | 18.3 | <10 | <10 |
| Beryllium(Total) | 0.5 | 0.6 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Cadmium(Total) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chromium(Total) | 20 | 24.1 | 5 | 5.6 | 14 | 17.1 | 4.2 | 5.1 |
| Copper(Total) | 6.5 | 7.8 | 4.8 | 5.1 | 1.4 | 1.7 | 1.3 | 1.6 |
| Lead(Total) | <10 | <10 | 25 | 26.6 | <10 | <10 | <10 | <10 |
| Mercury(Total) | 0.040 | 0.048 | 0.040 | 0.043 | <0.02 | <0.02 | <0.02 | <0.02 |
| Nickel(Total) | 8.1 | 9.8 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 |
| Zinc(Total) | 110 | 132.5 | 29.0 | 30.9 | 8.3 | 10.1 | 5.3 | 6.5 |
| Total Solids (%) | 83 | 100 | 94 | 100 | 82 | 100 | 82 | 100 |

- (a) RX - Resample
- (b) RXD - Resample duplicate.
- (c) Values have been converted to a dry weight basis in accordance with *Minimum Chemistry Data Reporting Requirements for DERP and Superfund HTW Projects* (USACE, 1989)
- (d) ND - None of the compounds analyzed were detected equal to, or in excess of, the detection limit.
- (e) NA - Not analyzed. Sample re-collected and analyzed for BNAs only.
- (f) NR - Not reported due to laboratory QC problems, BNA results reported in associated RX sample.
- (g) Sample diluted, increasing associated detection limits.
- (h) Indicates analyte was found in an associated blank.

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TABLE 2-GW

**GROUNDWATER SAMPLES - MB SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA**

| Parameter | LMB MW1601 | LMB MW1601D | LMB MW1602 | LMB MW1603 | LMB MW1603D |
|------------------------------|---------------|----------------------|----------------------|----------------------|----------------------|
| Pesticide/PCBs (ug/l) | ND (a) | NA (b) | NA | NA | NA |
| VOCs (ug/l) | | | | | |
| Benzene | 31(5) | 37(5) | <0.50 | <0.50 | <0.50 |
| Trichloroethene | 74(5) | 100(5) | <0.50 | <0.50 | <0.50 |
| cis-1,2-Dichloroethene | 50(5) | 60(5) | <0.50 | <0.50 | <0.50 |
| Vinyl Chloride | 13(2) | 20(2) | <1 | <1 | <1 |
| BNAs (ug/l) | | | | | |
| bis (2-Ethylhexyl) Phthalate | <20 | <20 | 44 | <20.0 | 32 |
| TFH-L (mg/l) | 0.4 | 0.32 | <0.05 | <0.05 | <0.05 |
| Metals (mg/l) | | | | | |
| Arsenic(Total) | <0.005 | 0.009 | <0.005 | <0.005 | <0.005 |
| Barium(Total) | 0.18 | 0.42 | 0.17 | 0.32 | 0.3 |
| Beryllium(Total) | <0.005 | 0.006 (0.001) | <0.005 | 0.006 (0.001) | 0.005 (0.001) |
| Cadmium(Total) | <0.005 | 0.007 (0.005) | <0.005 | <0.005 | <0.005 |
| Chromium(Total) | 0.010 | 0.038 | 0.021 | 0.049 | 0.041 |
| Copper(Total) | 0.012 | 0.069 | 0.042 | 0.03 | 0.033 |
| Lead(Total) | 0.010 | 0.06 (0.015) | 0.063 (0.015) | 0.074 (0.015) | 0.068 (0.015) |
| Mercury(Total) | <0.0002 | 0.0002 | <0.0002 | 0.0004 | 0.0004 |
| Nickel(Total) | <0.04 | 0.043 | <0.04 | <0.04 | <0.04 |
| Zinc(Total) | 0.048 (c) | 0.11 (c) | 0.063 (c) | 0.094 (c) | 0.09 (c) |
| Field Parameters (d) | | | | | |
| Temperature (°C) | 20.5 | 20.5 | 16.1 | 16.0 | 16.0 |
| pH | 6.3 | 6.3 | 5.3 | 4.9 | 4.9 |
| Conductivity (umho) | 125 | 125 | 45 | 195 | 195 |
| Turbidity (NTU) | 106 | 106 | 30-35 (est) | 78 | 78 |

(a) ND - None of the compounds analyzed were detected equal to, or in excess of, the detection limit.

(b) NA - Not analyzed

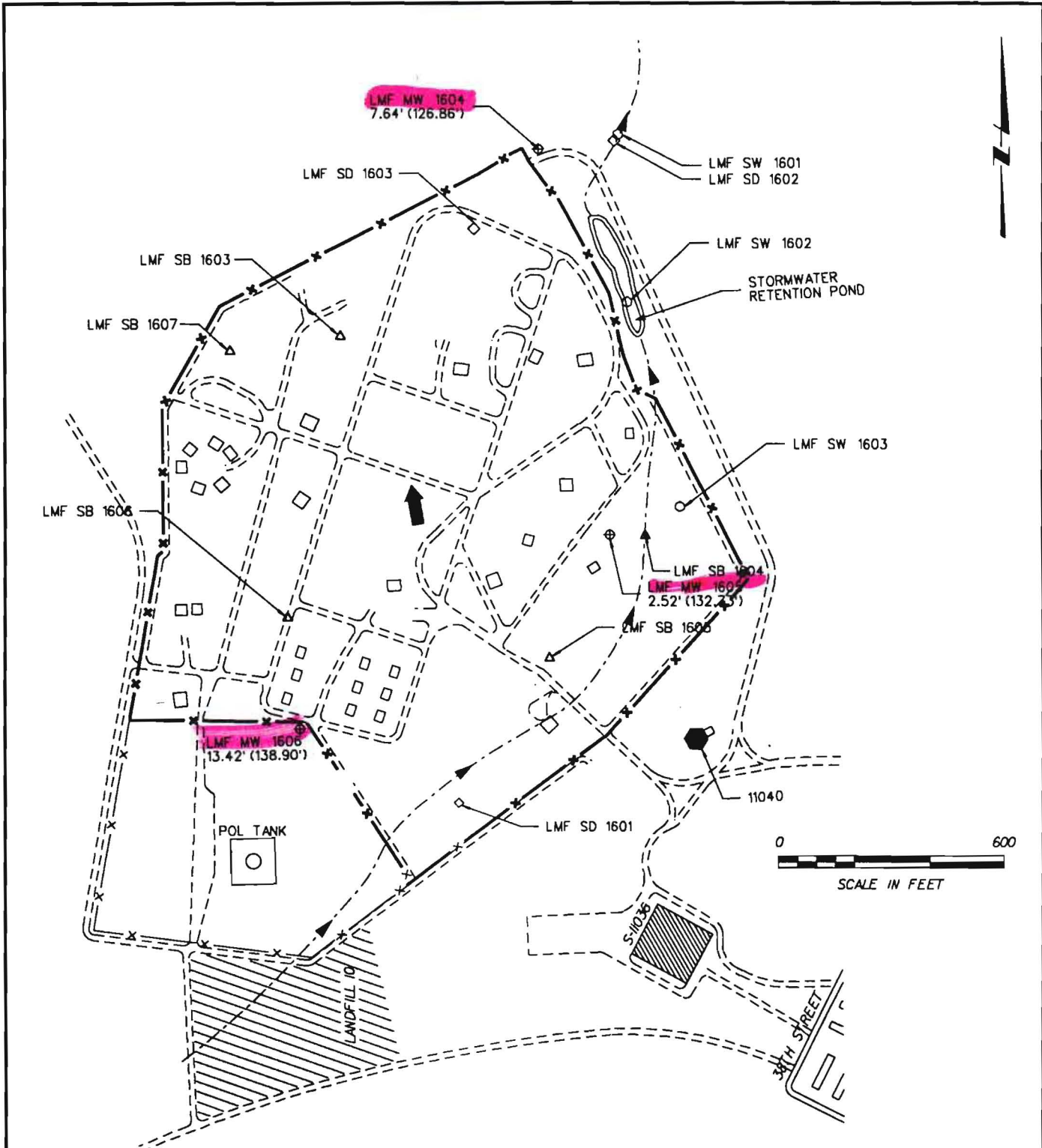
(c) Indicates analyte was found in an associated blank.

(d) Field parameters were measured after purging and prior to sampling.

A number in bold meets or exceeds the defined trigger level.

A bracketed number (0) is the trigger level.

3.0 Military-in-the Field Training Facility - MF Site



LEGEND

- ⊕ MONITORING WELL INSTALLED IN SOIL BORING
- ◇ SEDIMENT SAMPLE
- △ SOIL BORING
- SURFACE WATER SAMPLE
- - - INTERMITTENT STREAM
- PORTABLE FUEL CELLS
- EXISTING BUILDING
- ← GENERAL GROUNDWATER FLOW DIRECTION
- 10.54' (123.96') → GROUNDWATER ELEVATION (FT, NGVD)
- DEPTH TO WATER (FT, TOC)

| | |
|---|--|
| PRELIMINARY ASSESSMENT/SITE INVESTIGATION FORT LEE, VA | |
| SAMPLING LOCATIONS MIF TRAINING FACILITY - MF SITE | |
| JMM James M. Montgomery | |
| | |

TABLE 3-SS
SOIL SAMPLES -MF SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LMF MS1604(0) Wet Weight (µg/kg) | LMF MS1604(4) Wet Weight (µg/kg) | LMF MS1604(6) Wet Weight (µg/kg) | LMF MS1605(0) Wet Weight (µg/kg) | LMF MS1605(0) Dry Weight (a) (µg/kg) | LMF MS1605(4) Wet Weight (µg/kg) | LMF MS1605(10) Wet Weight (µg/kg) |
|------------------|---|---|---|---|---|---|--|
| VOCs | | | | | | | |
| m,p-Xylenes | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| BNA | | | | | | | |
| Phenol | <1.0 | <1.0 | <1.0 | 2.8 | 3.4 | <1.0 | <1.0 |
| TFH-L | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| TFH-H | NA (b) | NA | NA | NA | NA | NA | NA |
| Total Solids (%) | 96 | 96 | 87 | 92 | 100 | 85 | 80 |

TABLE 3-SS
(Continued)

SOIL SAMPLES -MF SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LMF MS1606(0) Wet Weight (µg/kg) | LMF MS1606(8) Wet Weight (µg/kg) | LMF MS1606(8)D Wet Weight (µg/kg) | LMF MS1606(16) Wet Weight (µg/kg) | LMF SB1603(0) Wet Weight (µg/kg) | LMF SB1603(8) Wet Weight (µg/kg) | LMF SB1603(10) Wet Weight (µg/kg) |
|------------------|---|---|--|--|---|---|--|
| VOCs | | | | | | | |
| m,p-Xylenes | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| BNA | | | | | | | |
| Phenol | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| TFH-L | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| TFH-H | NA | NA | NA | NA | NA | NA | NA |
| Total Solids (%) | 97 | 84 | 87 | 85 | 94 | 83 | 84 |

TABLE 3-SS
(Continued)

SOIL SAMPLES -MF SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LMF SB1604(0) Wet Weight (µg/kg) | LMF SB1604(8) Wet Weight (µg/kg) | LMF SB1604(10) Wet Weight (µg/kg) | LMF SB1605(0) Wet Weight (µg/kg) | LMF SB1605(4) Wet Weight (µg/kg) | LMF SB1605(10) Wet Weight (µg/kg) | LMF SB1606(0) Wet Weight (µg/kg) |
|------------------|---|---|--|---|---|--|---|
| VOCs | | | | | | | |
| m,p-Xylenes | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| BNAs | | | | | | | |
| Phenol | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| TFH-L | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 |
| TFH-H | NA | NA | NA | NA | NA | NA | NA |
| Total Solids (%) | 85 | 89 | 84 | 92 | 84 | 81 | 97 |

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TABLE 3-SS
(Continued)

SOIL SAMPLES -MF SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LMF SB1606(6) Wet Weight (µg/kg) | LMF SB1606(6) Dry Weight (µg/kg) | LMF SB1606(10) Wet Weight (µg/kg) | LMF SB1606(10) Dry Weight (µg/kg) | LMF SB1607(0) Wet Weight (µg/kg) | LMF SB1607(0)D Wet Weight (µg/kg) | LMF SB1607(6) Wet Weight (µg/kg) | LMF SB1607(8) Wet Weight (µg/kg) |
|------------------|---|---|--|--|---|--|---|---|
| VOCs | | | | | | | | |
| m,p-Xylenes | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| BNAs | | | | | | | | |
| Phenol | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| TFH-L | 20.1 | 23.4 | 1.22 | 1.41 | <0.2 | <0.2 | <0.2 | <0.2 |
| TFH-H | <10 | <10 | <10 | <10 | NA | NA | NA | NA |
| Total Solids (%) | 86 | 100 | 81 | 100 | 91 | 89 | 84 | 85 |

(a) Values have been converted to a dry weight basis in accordance with
Minimum Chemistry Data Reporting Requirements for DERP and Superfund HTW Projects (USACE, 1989).
(b) NA - Not analyzed

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TABLE 3-SD
SEDIMENT SAMPLES - MF SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LMF SD1601 Wet Weight (mg/kg) | LMF SD1601 Dry Weight(a) (mg/kg) | LMF SD1601D Wet Weight (mg/kg) | LMF SD1601D Dry Weight (mg/kg) | LMF SD1602 Wet Weight (mg/kg) | LMF SD1603 Wet Weight (mg/kg) | LMF SD1603 Dry Weight (mg/kg) | LMF SD1603D Wet Weight (mg/kg) | LMF SD1603D Dry Weight (mg/kg) |
|------------------|--|---|---|---|--|--|--|---|---|
| VOCs | ND (b) | ND | ND | ND | ND | ND | ND | ND | ND |
| BNAs | ND | ND | ND | ND | ND | ND | ND | ND | ND |
| TFH-L | 0.20 | 0.24 | 0.30 | 0.34 | <0.2 | 0.40 | 0.45 | 0.50 | 0.57 |
| Total Solids (%) | 84 | 100 | 89 | 100 | 82 | 88 | 100 | 88 | 100 |

(a) Values have been converted to a dry weight basis in accordance with
Minimum Chemistry Data Reporting Requirements for DERP and Superfund HTW Projects (USACE,1989).

(b) ND - None of the compounds analyzed were detected equal to, or in excess of, the detection limit.

TABLE 3-GW

**GROUNDWATER SAMPLES -MF SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA**

| Parameter | LMF MW1604 | LMF MW1604D | LMF MW1605 | LMF MW1605RX | LMF MW1606 | LMF MW1606RX(a) |
|-----------------------------|-----------------------|------------------------|-----------------------|-------------------------|-----------------------|----------------------------|
| VOCs (ug/l) | | | | | | |
| Benzene | 36 (5) (b) | 46 (5) (b) | 3.6 (b) | NA (c) | 5.7 (5) | NA |
| 1,2-Dichloroethane | 3.1 (b) | <5.0 (b) | 18 (5) (b) | NA | <0.50 | NA |
| Ethylbenzene | 21 (b) | 24 (b) | <1.5 (b) | NA | <0.50 | NA |
| Carbon Disulfide | 4.4 (b) | <5.0 (b) | <1.5 (b) | NA | 11 | NA |
| o-Xylene | 52 (b) | 60 (b) | <1.5 (b) | NA | 3.2 | NA |
| BNAs (ug/l) | | | | | | |
| Napthalene | <5.0 | <5.0 | NR | <5.0 | NR (d) | 35 |
| TFH-L (mg/l) | 0.75 | 0.89 | 0.56 | NA | 0.06 | NA |
| Field Parameters (e) | | | | | | |
| Temperature (°C) | 20 | 20 | 20.5 | 17.0 | 17.1 | 17.1 |
| pH | 4.8 | 4.8 | 5.0 | 5.9 | 5.2 | 5.2 |
| Conductivity (umho) | 25 | 25 | 55 | 65 | 23 | 23 |
| Turbidity (NTU) | 69.2 | 69.2 | >200 | >200 | 142.5 | 142.5 |

(a) RX - Resample

(b) Sample diluted, increasing associated detection limits.

(c) NA - Not analyzed. Sample recollected and analyzed for BNAs only.

(d) NR - Not reported due to laboratory QC problems, BNA results reported in associated RX sample.

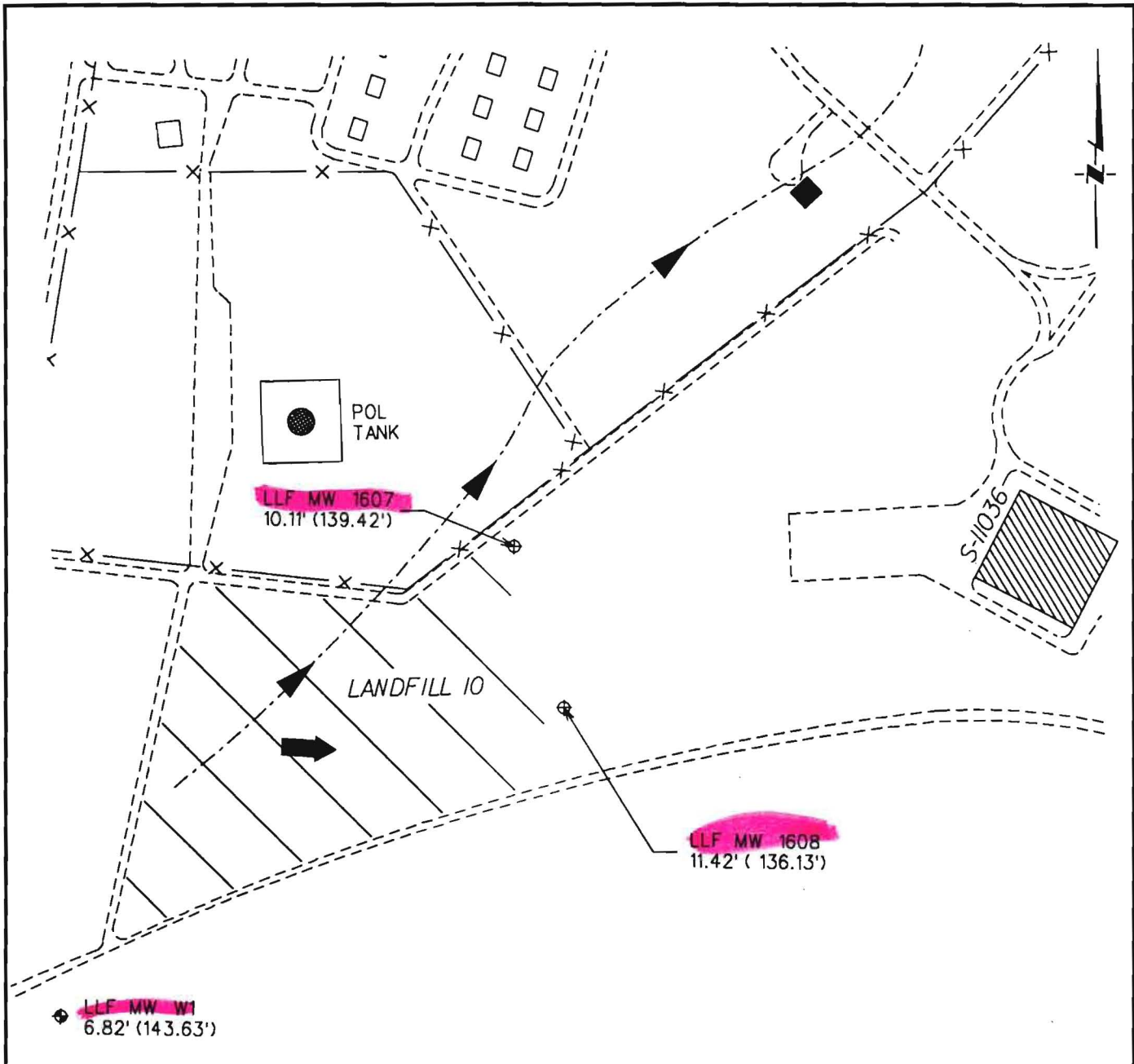
(e) Field parameters were measured after purging and prior to sampling

TABLE 3-SW
SURFACE WATER SAMPLES - MF SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA






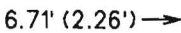


| Parameter | LMF SW1602 | LMF SW1603 |
|------------------|-----------------------|-----------------------|
| VOCs (ug/l) | | |
| Toluene | 2.3 | <0.5 |
| Carbon Disulfide | <0.5 | 0.7 |
| BNAs (ug/l) | ND (a) | ND |
| TFH-L (mg/l) | 0.75 | <0.05 |

(a) ND - None of the compounds analyzed were detected equal to, or in excess of, the detection limit.

4.0 Landfill 10 - LF Site



LEGEND

-  PREVIOUSLY INSTALLED MONITORING WELL
-  MONITORING WELL INSTALLED IN SOIL BORING
-  INTERMITTENT STREAM
-  PORTABLE FUEL CELL
-  EXISTING BUILDING
-  6.71' (2.26') → GROUNDWATER ELEVATION (FT, NGVD)
-  → DEPTH TO WATER TABLE (FT, TOC)
-  ← GENERAL GROUNDWATER FLOW DIRECTION




| | |
|---|--|
| PRELIMINARY ASSESSMENT/SITE INVESTIGATION FORT LEE, VA | |
| SAMPLING LOCATIONS LANDFILL 10 - LF SITE | |
| JMM James M. Montgomery  | |

TABLE 4-SS

**SOIL SAMPLES -LF SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA**

| Parameter | LLF MS1607(0) Wet Weight (mg/kg) | LLF MS1607(0) Dry Weight (a) (mg/kg) | LLF MS1607(0)D Wet Weight (mg/kg) | LLF MS1607(0)D Dry Weight (mg/kg) | LLF MS1607(2) Wet Weight (mg/kg) | LLF MS1607(2) Dry Weight (mg/kg) | LLF MS1607(12) Wet Weight (mg/kg) |
|-----------------------|---|---|--|--|---|---|--|
| Pesticide/PCBs (ug/l) | | | | | | | |
| Beta BHC | 0.090 | 0.095 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| VOCs (ug/l) | ND (b) | ND | ND | ND | ND | ND | ND |
| BNAs (ug/l) | ND | ND | ND | ND | ND | ND | ND |
| Metals (mg/l) | | | | | | | |
| Barium(Total) | 11 | 11.6 | 15 | 15.8 | 14 | 15.7 | <10 |
| Chromium(Total) | 4.9 | 5.2 | 7.9 | 8.3 | 13 | 14.6 | 3.5 |
| Copper(Total) | 15 | 15.8 | <1.0 | <1.0 | 2.8 | 3.1 | 2.1 |
| Lead(Total) | <10 | <10 | 10 | 10.5 | <10 | <10 | <10 |
| Mercury(Total) | 0.020 | 0.021 | 0.030 | 0.032 | <0.02 | <0.02 | <0.02 |
| Nickel(Total) | <4.0 | <4.0 | <4.0 | <4.0 | 4.3 | 4.8 | <4.0 |
| Zinc(Total) | 6.1 | 6.4 | 6.8 | 7.2 | 6.1 | 6.9 | 4.5 |
| Total Solids (%) | 95 | 100 | 95 | 100 | 89 | 100 | 87 |

TABLE 4-SS
(Continued)

SOIL SAMPLES -LF SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LLF MS1607(12) Dry Weight (mg/kg) | LLF MS1608(0) Wet Weight (mg/kg) | LLF MS1608(0) Dry Weight (mg/kg) | LLF MS1608(2) Wet Weight (mg/kg) | LLF MS1608(2) Dry Weight (mg/kg) | LLF MS1608(14) Wet Weight (mg/kg) | LLF MS1608(14) Dry Weight (mg/kg) |
|-----------------------|--|---|---|---|---|--|--|
| Pesticide/PCBs (ug/l) | | | | | | | |
| Beta BHC | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| VOCs (ug/l) | ND | ND | ND | ND | ND | ND | ND |
| BNAs (ug/l) | ND | ND | ND | ND | ND | ND | ND |
| Metals (mg/l) | | | | | | | |
| Barium(Total) | <10 | 26 | 28.6 | 21 | 25.0 | 33 | 43.4 |
| Chromium(Total) | 4.0 | 7.8 | 8.6 | 10 | 11.9 | 12 | 15.8 |
| Copper(Total) | 2.4 | 1.3 | 1.4 | <1.0 | <1.0 | 6.0 | 7.9 |
| Lead(Total) | <10 | 15 | 16.5 | 13 | 15.5 | 11 | 14.5 |
| Mercury(Total) | <0.02 | 0.030 | 0.033 | 0.030 | 0.036 | <0.02 | <0.02 |
| Nickel(Total) | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | 5.8 | 7.6 |
| Zinc(Total) | 5.2 | 9.6 | 10.5 | 6.9 | 8.2 | 18 | 23.7 |
| Total Solids (%) | 100 | 91 | 100 | 84 | 100 | 76 | 100 |

- (a) Values have been converted to a dry weight basis in accordance with
Minimum Chemistry Data Reporting Requirements for DERP and Superfund HTW Projects (USACE,1989).
(b) ND - None of the compounds analyzed were detected equal to, or in excess of, the detection limit.

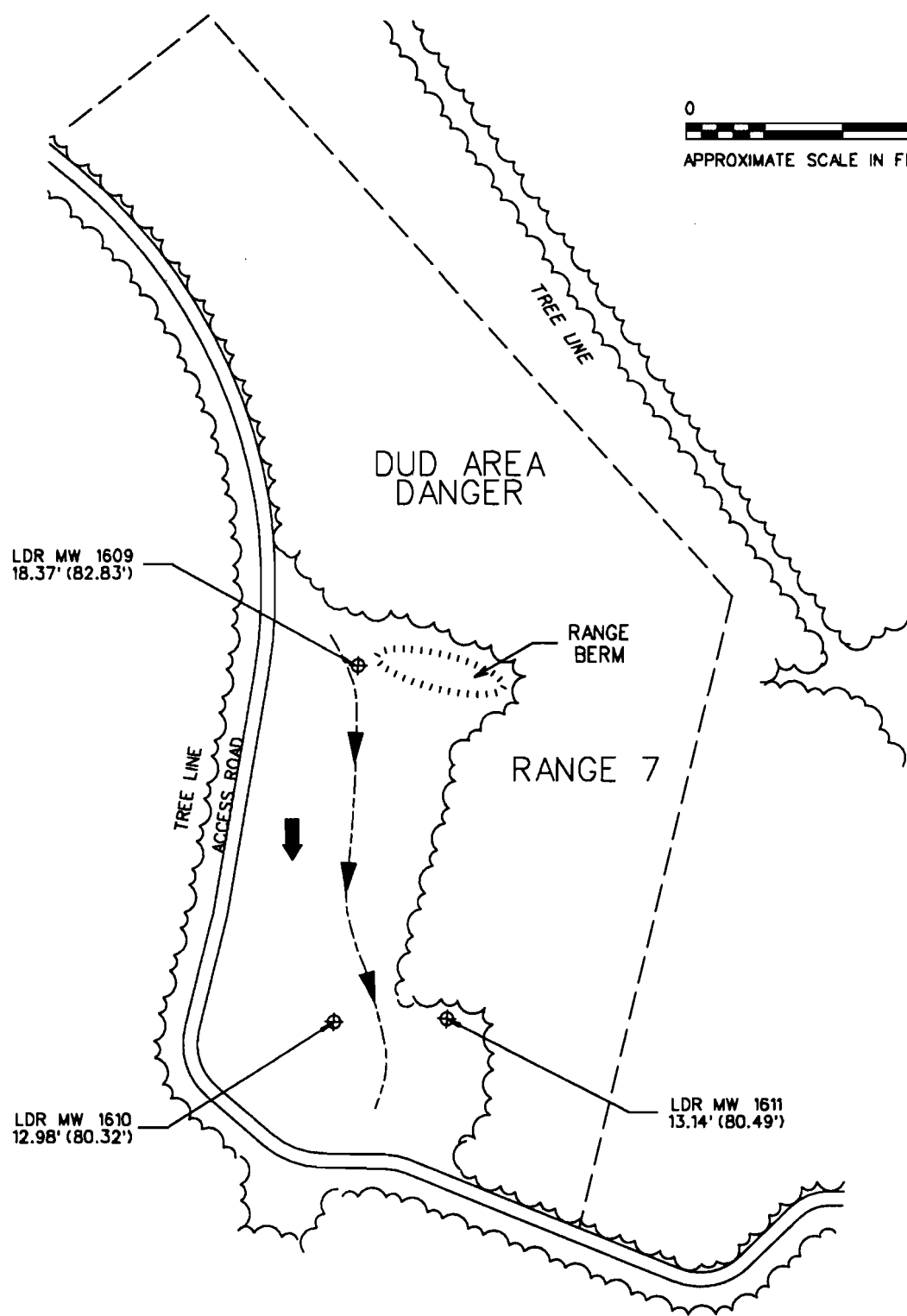
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TABLE 4-GW
GROUNDWATER SAMPLES - LF SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LLF MW1607 | LLF MW1608 | LLF MWW1 |
|------------------------|----------------------|----------------------|----------------------|
| Pesticide/PCBS (ug/l) | ND (a) | ND | ND |
| VOCs (ug/l) | | | |
| Benzene | <0.5 | 0.9 | <0.5 (b) |
| Chlorobenzene | <0.5 | 1.8 | <0.5 (b) |
| Chloroform | 9.6 | <0.5 | <0.5 (b) |
| Dichlorobromomethane | 0.6 | <0.5 | <0.5 (b) |
| Trichloroethene | <0.5 | 2.7 | <0.5 (b) |
| cis-1,2-Dichloroethene | <0.5 | 5.7 | <0.5 (b) |
| 1,4-Dichlorobenzene | 0.8 | 1.5 | <0.5 (b) |
| o-Xylene | <1.0 | 1.0 | <1.0 (b) |
| Vinyl Chloride | <1.0 | 2.1 (2) | <1.0 (b) |
| BNAs (ug/l) | ND | ND | ND |
| TFH-L (mg/l) | NA (c) | NA | <0.05 |
| Metals (mg/l) | | | |
| Barium (Total) | 0.48 | 0.37 | 0.13 |
| Beryllium(Total) | 0.006 (0.001) | 0.007 (0.001) | <0.005 |
| Cadmium(Total) | 0.023 (0.005) | <0.005 | <0.005 |
| Chromium(Total) | 0.059 | 0.060 | 0.025 |
| Copper(Total) | 0.092 | 0.029 | 0.023 |
| Lead(Total) | 0.078 (0.015) | 0.054 (0.015) | 0.032 (0.015) |
| Mercury(Total) | 0.0003 | 0.0012 | <0.0002 |
| Zinc(Total) | 0.25 | 0.081(d) | 0.11(d) |
| Field Parameters (e) | | | |
| Temperature (°C) | 20 | 16.5 | 26 |
| pH | 4.5 | 4.5 | 5.0 |
| Conductivity (umho) | 55 | 65 | 30 |
| Turbidity (NTU) | >200 | >200 | >200 |

- (a) ND - None of the compounds analyzed were detected equal to, or in excess of, the detection limit.
- (b) Sample was recollected and analyzed for VOCs only.
- (c) NA - Not analyzed
- (d) Indicates analyte was found in an associated blank.
- (e) Field parameters were measured after purging and prior to sampling.

5.0 Open Detonation Range - DR Site



- LEGEND**
- MONITORING WELL INSTALLED AT SOIL BORING LOCATION
 - INTERMITTENT STREAM
 - 6.71' (2.26') — GROUNDWATER ELEVATION (FT, NGVD)
 - DEPTH TO WATER TABLE (FT, TOC)
 - GENERAL GROUNDWATER FLOW DIRECTION

| | |
|---|--|
| PRELIMINARY ASSESSMENT/SITE INVESTIGATION FORT LEE, VA | |
| SAMPLING LOCATIONS OPEN DETONATION RANGE - DR SITE | |
| JMM James M. Montgomery | |
| | |

TABLE 5-SS
SOIL SAMPLES - DR SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LDR MS1609(0) Wet Weight (mg/kg) | LDR MS1609(0) Dry Weight(a) (mg/kg) | LDR MS1609(8) Wet Weight (mg/kg) | LDR MS1609(8) Dry Weight (mg/kg) | LDR MS1609(12) Wet Weight (mg/kg) | LDR MS1609(12) Dry Weight (mg/kg) | LDR MS1610(0) Wet Weight (mg/kg) |
|-------------------------|---|--|---|---|--|--|---|
| VOCs | | | | | | | |
| Methylethylketone | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| BNAs | ND (b) | ND | ND | ND | ND | ND | NR(e) |
| Metals | | | | | | | |
| Arsenic(Total) | <10 | <10 | 13 | 15.3 | <10 | <10 | 20 |
| Barium(Total) | 25 | 30.1 | 13 | 15.3 | 10 | 11.8 | 13 |
| Chromium(Total) | 52 | 62.7 | 7.9 | 9.3 | 10 | 11.8 | 14 |
| Copper(Total) | 51 | 61.5 | 3.8 | 4.5 | 1.2 | 1.4 | 3.8 |
| Lead(Total) | 16 | 19.3 | <10 | <10 | <10 | <10 | 12 |
| Mercury(Total) | 0.07 | 0.08 | <0.020 | <0.020 | <0.020 | <0.020 | 0.13 |
| Nickel(Total) | 16 | 19.3 | 4.7 | 5.5 | <4.0 | <4.0 | 6.1 |
| Zinc(Total) | 38 | 45.8 | 9.0 | 10.6 | 5.5 | 6.5 | 13.0 |
| Total Solids (%) | 87 | 100 | 85 | 100 | 83 | 100 | 85 |

TABLE 5-SS
(Continued)

SOIL SAMPLES - DR SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LDR MS1610(0) Dry Weight (mg/kg) | LDR MS1610(0)RX(c) Wet Weight (mg/kg) | LDR MS1610(4) Wet Weight (mg/kg) | LDR MS1610(4) Dry Weight (mg/kg) | LDR MS1610(8) Wet Weight (mg/kg) | LDR MS1610(8) Dry Weight (mg/kg) | LDR MS1611(0) Wet Weight (mg/kg) |
|-------------------|---|--|---|---|---|---|---|
| VOCs | | | | | | | |
| Methylethylketone | <0.025 | NA(d) | 0.09 | 0.11 | 0.80 | 0.93 | <0.025 |
| BNAs | | | | | | | |
| | NR | ND | ND | ND | ND | ND | ND |
| Metals | | | | | | | |
| Arsenic(Total) | 23.5 | NA | 24 | 29.3 | 10 | 11.6 | 24 |
| Barium(Total) | 15.3 | NA | 18 | 22.0 | 15 | 12.4 | 30 |
| Chromium(Total) | 16.5 | NA | 11 | 13.4 | 8.4 | 9.8 | 21 |
| Copper(Total) | 4.5 | NA | 3.7 | 4.5 | 1.8 | 2.1 | 12 |
| Lead(Total) | 14.1 | NA | 14 | 17.1 | <10 | <10 | 17 |
| Mercury(Total) | 0.15 | NA | <0.020 | <0.020 | <0.020 | <0.020 | 0.05 |
| Nickel(Total) | 7.2 | NA | 5.9 | 7.2 | <4.0 | <4.0 | 12 |
| Zinc(Total) | 15.3 | NA | 11 | 13.4 | 7.0 | 8.1 | 52 |
| Total Solids (%) | 100 | 83 | 82 | 100 | 86 | 100 | 86 |

TABLE 5-SS
(Continued)

SOIL SAMPLES - DR SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LDR MS1611(0) Dry Weight (mg/kg) | LDR MS1611(4) Wet Weight (mg/kg) | LDR MS1611(4) Dry Weight (mg/kg) | LDR MS1611(4)RX (d) Wet Weight (mg/kg) | LDR MS1611(4)RXD (f) Dry Weight (mg/kg) | LDR MS1611(6) Wet Weight (mg/kg) | LDR MS1611(6) Dry Weight (mg/kg) |
|-------------------|---|---|---|---|--|---|---|
| VOCs | | | | | | | |
| Methylethylketone | <0.025 | <0.025 | <0.025 | NA (f) | NA | 0.03 | 0.04 |
| BNAs | | | | | | | |
| | ND | NR | NR | ND | ND | ND | ND |
| Metals | | | | | | | |
| Arsenic(Total) | 27.9 | 18 | 21.7 | NA | NA | 13 | 15.3 |
| Barium(Total) | 34.9 | 15 | 18.1 | NA | NA | 15 | 17.6 |
| Chromium(Total) | 24.4 | 14 | 16.9 | NA | NA | 11 | 12.9 |
| Copper(Total) | 13.9 | 3.3 | 4.0 | NA | NA | 2.0 | 2.4 |
| Lead(Total) | 19.8 | 16 | 19.3 | NA | NA | 14 | 16.5 |
| Mercury(Total) | 0.058 | 0.030 | 0.036 | NA | NA | <0.020 | <0.020 |
| Nickel(Total) | 13.9 | 4.0 | 4.8 | NA | NA | 4.0 | 4.7 |
| Zinc(Total) | 60.5 | 9.5 | 11.4 | NA | NA | 7.4 | 8.7 |
| Total Solids (%) | 100 | 83 | 100 | 86 | 86 | 85 | 100 |

- (a) Values have been converted to a dry weight basis in accordance with
Minimum Chemistry Data Reporting Requirements for DERP and Superfund HTW Projects (USACE,1989).
- (b) ND - None of the compounds analyzed were detected equal to, or in excess of, the detection limit.
- (c) RX - Resample
- (d) NA - Not analyzed. Sample re-collected and analyzed for BNAs only.
- (e) NR - Not reported due to laboratory QC problems, BNA results reported in associated QC sample.
- (f) RXD - Resample duplicate

TABLE 5-GW
GROUNDWATER SAMPLES - DR SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LDR MW1609 | LDR MW1610 | LDR MW1611 |
|-----------------------------|----------------------|----------------------|----------------------|
| VOCs (µg/l) | | | |
| Chloroform | 0.6 (a) | <0.5 (a) | <0.5 (a,b) |
| Ethylbenzene | <0.5 (a) | 3.7 (a) | <0.5 (a,b) |
| m,p-Xylene | 1.1 (a) | 16 (a) | <0.5 (a,b) |
| o-Xylene | 0.7 (a) | 7.7 (a) | <0.5 (a,b) |
| Toluene | 0.8 (a) | 11 (a) | <0.5 (a,b) |
| BNAs (ug/l) | ND (c) | ND | ND |
| TFH-L (mg/l) | <0.05 | <0.05 | <0.05 |
| Metals (mg/l) | | | |
| Arsenic(Total) | 0.017 | 0.006 | <0.005 |
| Barium(Total) | 0.70 | 0.53 | 0.40 |
| Beryllium(Total) | 0.012 (0.001) | <0.005 | <0.005 |
| Chromium(Total) | 0.075 | 0.037 | 0.041 |
| Copper(Total) | 0.18 | 0.071 | 0.13 |
| Lead(Total) | 0.066 (0.015) | 0.040 (0.015) | 0.058 (0.015) |
| Mercury(Total) | 0.0003 | <0.0002 | <0.0002 |
| Zinc(Total) | 0.20 | 0.17 | 0.21 |
| Field Parameters (d) | | | |
| Temperature (°C) | 22 | 20 | 20 |
| pH | 4.6 | 5.5 | 5.3 |
| Conductivity (umho) | 55 | 20 | 40 |
| Turbidity (NTU) | >200 | >200 | >200 |

(a) Sample recollected and analyzed for VOCs only.

(b) Sample diluted, increasing associated detection limits.

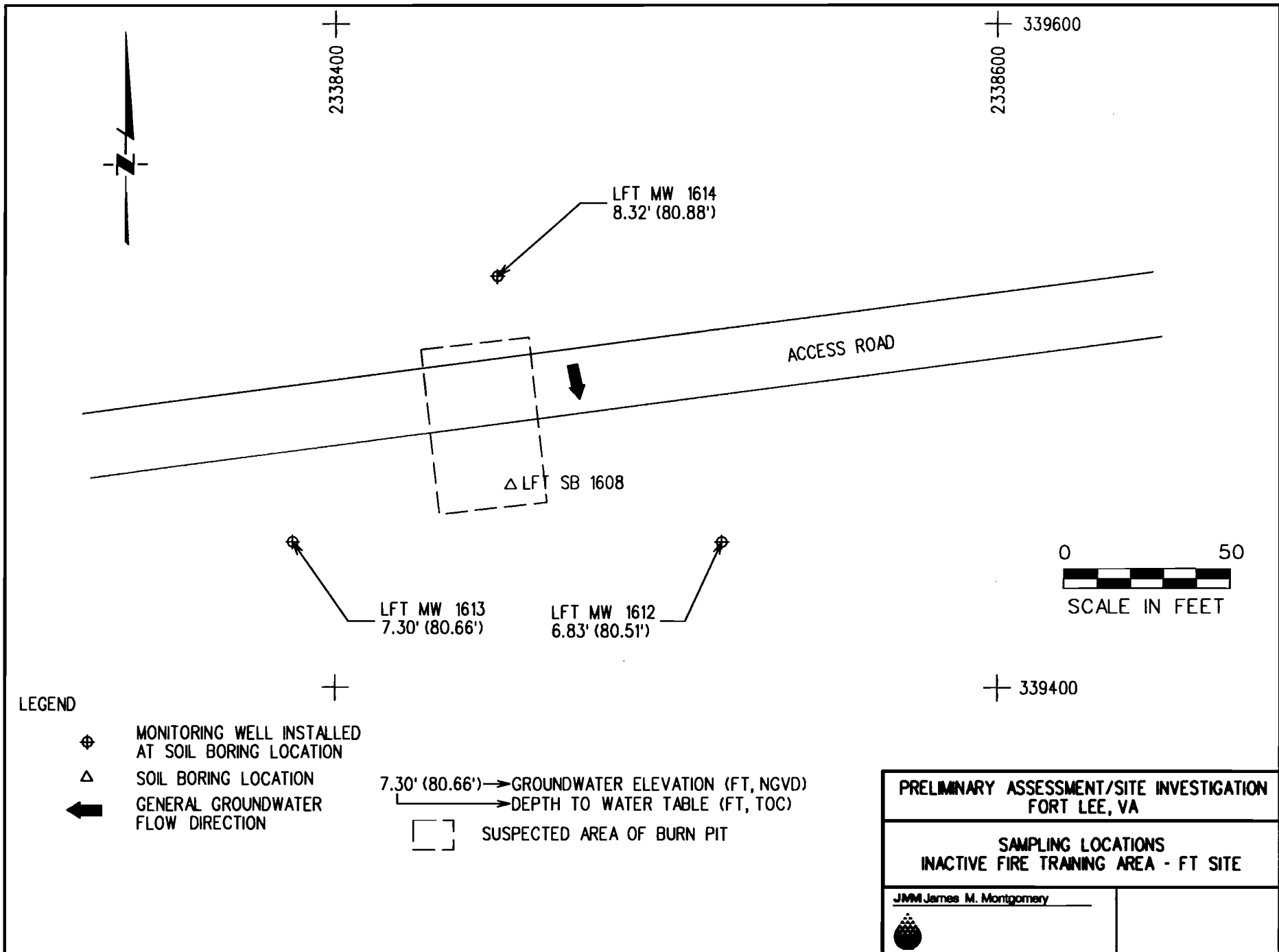
(c) ND - None of the compounds analyzed were detected equal to, or in excess of, the detection limit.

(d) Field parameters were measured after purging and prior to sampling.

A number in bold meets or exceeds the defined trigger level.

A bracketed number (0) is the trigger level.

6.0 Inactive Fire Training Area - FT Site



LEGEND

- ⊕ MONITORING WELL INSTALLED AT SOIL BORING LOCATION
- △ SOIL BORING LOCATION
- ← GENERAL GROUNDWATER FLOW DIRECTION
- 7.30' (80.66') → GROUNDWATER ELEVATION (FT, NGVD)
- DEPTH TO WATER TABLE (FT, TOC)
- SUSPECTED AREA OF BURN PIT


| | |
|--|--|
| PRELIMINARY ASSESSMENT/SITE INVESTIGATION FORT LEE, VA | |
| SAMPLING LOCATIONS INACTIVE FIRE TRAINING AREA - FT SITE | |
| JMM James M. Montgomery  | |

TABLE 6-SS
SOIL SAMPLES - FT SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LFT MS1612(0) Wet Weight (mg/kg) | LFT MS1612(0) Dry Weight(a) (mg/kg) | LFT MS1612(4) Wet Weight (mg/kg) | LFT MS1612(4) Dry Weight (mg/kg) | LFT MS1612(8) Wet Weight (mg/kg) | LFT MS1612(8) Dry Weight (mg/kg) | LFT MS1613(0) Wet Weight (mg/kg) | LFT MS1613(0) Dry Weight (mg/kg) |
|-------------------------|---|--|---|---|---|---|---|---|
| VOCs | | | | | | | | |
| m,p-Xylenes | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| o-Xylene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| BNAs | ND (b) | ND | ND | ND | ND | ND | ND | ND |
| Metals | | | | | | | | |
| Arsenic(Total) | <10 | <10 | 10 | 11.5 | 11 | 12.9 | <10 | <10 |
| Barium(Total) | 23 | 24.0 | 11 | 12.6 | 13 | 15.3 | 44 | 49.4 |
| Chromium(Total) | 8.1 | 8.4 | 13 | 14.9 | 7.0 | 8.2 | 5.8 | 6.5 |
| Copper(Total) | 2.1 | 2.2 (c) | 1.7 | 2.0 (c) | 1.5 | 1.76 (c) | 2.5 | 2.94 (c) |
| Lead(Total) | <10 | <10 | <10 | <10 | <10 | <10 | 13 | 14.6 |
| Mercury(Total) | <0.020 | <0.020 | <0.020 | <0.020 | 0.020 | 0.024 | 0.020 | 0.022 |
| Nickel(Total) | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 |
| Silver(Total) | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Zinc(Total) | 9.0 | 9.4 | 4.3 | 4.9 | 3.7 | 4.4 | 10 | 11.2 |
| Total Solids (%) | 96 | 100 | 87 | 100 | 85 | 100 | 89 | 100 |

TABLE 6-SS
(Continued)

SOIL SAMPLES - FT SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LFT MS1613(4) Wet Weight (mg/kg) | LFT MS1613(4) Dry Weight (mg/kg) | LFT MS1613(8) Wet Weight (mg/kg) | LFT MS1613(8) Dry Weight (mg/kg) | LFT MS1614(0) Wet Weight (mg/kg) | LFT MS1614(0) Dry Weight (mg/kg) | LFT MS1614(4) Wet Weight (mg/kg) | LFT MS1614(4) Dry Weight (mg/kg) |
|------------------|---|---|---|---|---|---|---|---|
| VOCs | | | | | | | | |
| m,p-Xylenes | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| o-Xylene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| BNAs | | | | | | | | |
| | ND | ND | ND | ND | ND | ND | ND | ND |
| Metals | | | | | | | | |
| Arsenic(Total) | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Barium(Total) | 13 | 15.1 | 22 | 24.7 | 33 | 34.7 | 15 | 18.3 |
| Chromium(Total) | 7.0 | 8.1 | 9.9 | 11.1 | 8.2 | 8.6 | 12 | 14.6 |
| Copper(Total) | 1.3 | 1.51 (c) | 2.8 | 3.1 (c) | 3.5 | 3.7 (c) | 4.5 | 5.5 (c) |
| Lead(Total) | <10 | <10 | <10 | <10 | 17 | 17.9 | <10 | <10 |
| Mercury(Total) | 0.030 | 0.035 | <0.020 | <0.020 | 0.020 | 0.0 | 0.020 | 0.024 |
| Nickel(Total) | <4.0 | <4.0 | 5.5 | 6.2 | <4.0 | <4.0 | <4.0 | <4.0 |
| Silver(Total) | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Zinc(Total) | 3.1 | 3.6 | 5.0 | 5.6 | 16 | 16.8 | 6.9 | 8.4 |
| Total Solids (%) | 86 | 100 | 89 | 100 | 95 | 100 | 82 | 100 |

TABLE 6-SS
(Continued)

SOIL SAMPLES - FT SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LFT MS1614(4)D Wet Weight (mg/kg) | LFT MS1614(4)D Dry Weight (mg/kg) | LFT MS1614(8) Wet Weight (mg/kg) | LFT MS1614(8) Dry Weight (mg/kg) | LFT MS1614(8)D Wet Weight (mg/kg) | LFT MS1614(8)D Dry Weight (mg/kg) | LFT SB1608(0) Wet Weight (mg/kg) | LFT SB1608(0) Dry Weight (mg/kg) |
|------------------|--|--|---|---|--|--|---|---|
| VOCs | | | | | | | | |
| m,p-Xylenes | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| o-Xylene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| BNAs | | | | | | | | |
| | ND | ND | ND | ND | ND | ND | ND | ND |
| Metals | | | | | | | | |
| Arsenic(Total) | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Barium(Total) | 19 | 23.2 | 22 | 26.2 | <10 | <10 | 39 | 43.8 |
| Chromium(Total) | 11 | 13.4 | 13 | 15.5 | 6.5 | 7.7 | 5.3 | 6.0 |
| Copper(Total) | 3.6 | 4.4 (c) | 4.6 | 5.5 (c) | 2.3 | 2.7 (c) | 2.7 | 3.03 (c) |
| Lead(Total) | <10 | <10 | <10 | <10 | <10 | <10 | 21 | 23.6 |
| Mercury(Total) | 0.030 | 0.037 | 0.030 | 0.036 | <0.030 | <0.030 | 0.020 | 0.022 |
| Nickel(Total) | 4.3 | 5.2 | 5.0 | 6.0 | <4.0 | <4.0 | <4.0 | <4.0 |
| Silver(Total) | 2.0 | 2.4 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Zinc(Total) | 10 | 12.2 | 12 | 14.3 | 5.3 | 6.3 | 13 | 14.6 |
| Total Solids (%) | 82 | 100 | 84 | 100 | 84 | 100 | 89 | 100 |

TABLE 6-SS
(Continued)

SOIL SAMPLES - FT SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LFT SB1608(2) Wet Weight (mg/kg) | LFT SB1608(2) Dry Weight (mg/kg) | LFT SB1608(10) Wet Weight (mg/kg) | LFT SB1608(10) Dry Weight (mg/kg) | LFT SB1608(10)D Wet Weight (mg/kg) | LFT SB1608(10)D Dry Weight (mg/kg) |
|------------------|---|---|--|--|---|---|
| VOCs | | | | | | |
| m,p-Xylenes | 0.02 | 0.024 | <0.01 | <0.01 | <0.01 | <0.01 |
| o-Xylene | 0.02 | 0.024 | <0.01 | <0.01 | <0.01 | <0.01 |
| BNAs | | | | | | |
| | ND | ND | ND | ND | ND | ND |
| Metals | | | | | | |
| Arsenic(Total) | 10 | 11.9 | <10 | <10 | <10 | <10 |
| Barium(Total) | 54 | 64.3 | 17 | 21.0 | 18 | 22.2 |
| Chromium(Total) | 11 | 13.1 | 6.6 | 8.1 | 5.0 | 6.2 |
| Copper(Total) | 2.8 | 3.3 (c) | 1.5 | 1.85 (c) | 1.7 | 2.1 (c) |
| Lead(Total) | <10 | <10 | <10 | <10 | <10 | <10 |
| Mercury(Total) | 0.050 | 0.060 | <0.020 | <0.020 | <0.020 | <0.020 |
| Nickel(Total) | 7.5 | 8.9 | <4.0 | <4.0 | <4.0 | <4.0 |
| Silver(Total) | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Zinc(Total) | 10 | 11.9 | 5.3 | 6.2 | 4.4 | 5.4 |
| Total Solids (%) | 84 | 100 | 81 | 100 | 81 | 100 |

- (a) Values have been converted to a dry weight basis in accordance with
Minimum Chemistry Data Reporting Requirements for DERP and Superfund HTW Projects (USACE,1989).
- (b) ND- None of the compounds analyzed were detected equal to, or in excess of, the detection limit.
- (c) Indicates analyte was found in an associated blank.

TABLE 6-GW
GROUNDWATER SAMPLES - FT SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LFT MW1612 | LFT MW1613 | LFT MW1613(D) | LFT MW1614 |
|-----------------------------|---------------------|----------------------|----------------------|----------------------|
| VOCs (ug/l) | | | | |
| Carbon Tetrachloride | 10(5) | 8.9(5) | NA (a) | 8.0 (5) |
| Chloroform | 4.3 | 3.6 | NA | 6.8(5) |
| cis 1,2-Dichloroethane | 1.2 | 1.5 | NA | <0.5 |
| 1,1-Dichloroethane | 0.8 | <0.5 | NA | 17 |
| Ethylbenzene | <0.5 | 0.8 | NA | <0.5 |
| Toluene | <0.5 | 3.1 | NA | <0.5 |
| m,p-Xylene | 3.4 | 3.4 | NA | <0.5 |
| o-Xylene | <0.5 | 2.2 | NA | <0.5 |
| Tetrachloroethene | 0.8 | 1.7 | NA | <0.5 |
| Trichloroethene | <0.5 | 0.7 | NA | <0.5 |
| BNAs (ug/l) | | | | |
| | ND (b) | ND | ND | ND |
| TFH-L (mg/l) | | | | |
| | <0.05 | <0.05 | <0.05 | NA |
| Metals (mg/l) | | | | |
| Barium(Total) | 0.49 | 0.29 | 0.22 | 0.11 |
| Beryllium(Total) | 0.008 | <0.005 | <0.005 | <0.05 |
| Chromium(Total) | 0.068 | 0.037 | 0.015 | 0.013 |
| Copper(Total) | 0.072 | 0.036 | 0.068 | 0.019 |
| Lead(Total) | 0.09 (0.015) | 0.066 (0.015) | 0.056 (0.015) | 0.017 (0.015) |
| Mercury(Total) | <0.0002 | 0.0004 | 0.0002 | <0.0002 |
| Nickel(Total) | 0.043 | <0.04 | <0.04 | <0.04 |
| Zinc(Total) | 0.24 | 0.072 | 0.085 | 0.080 |
| Field Parameters (c) | | | | |
| Temperature (°C) | 22.5 | 27 | 27 | 28 |
| pH | 5.4 | 5.3 | 5.3 | 5.4 |
| Conductivity (umho) | 55 | 50 | 50 | 50 |
| Turbidity (NTU) | >200 | 63 | 63 | 18 |

(a) Sample recollected and analyzed for VOCs only.

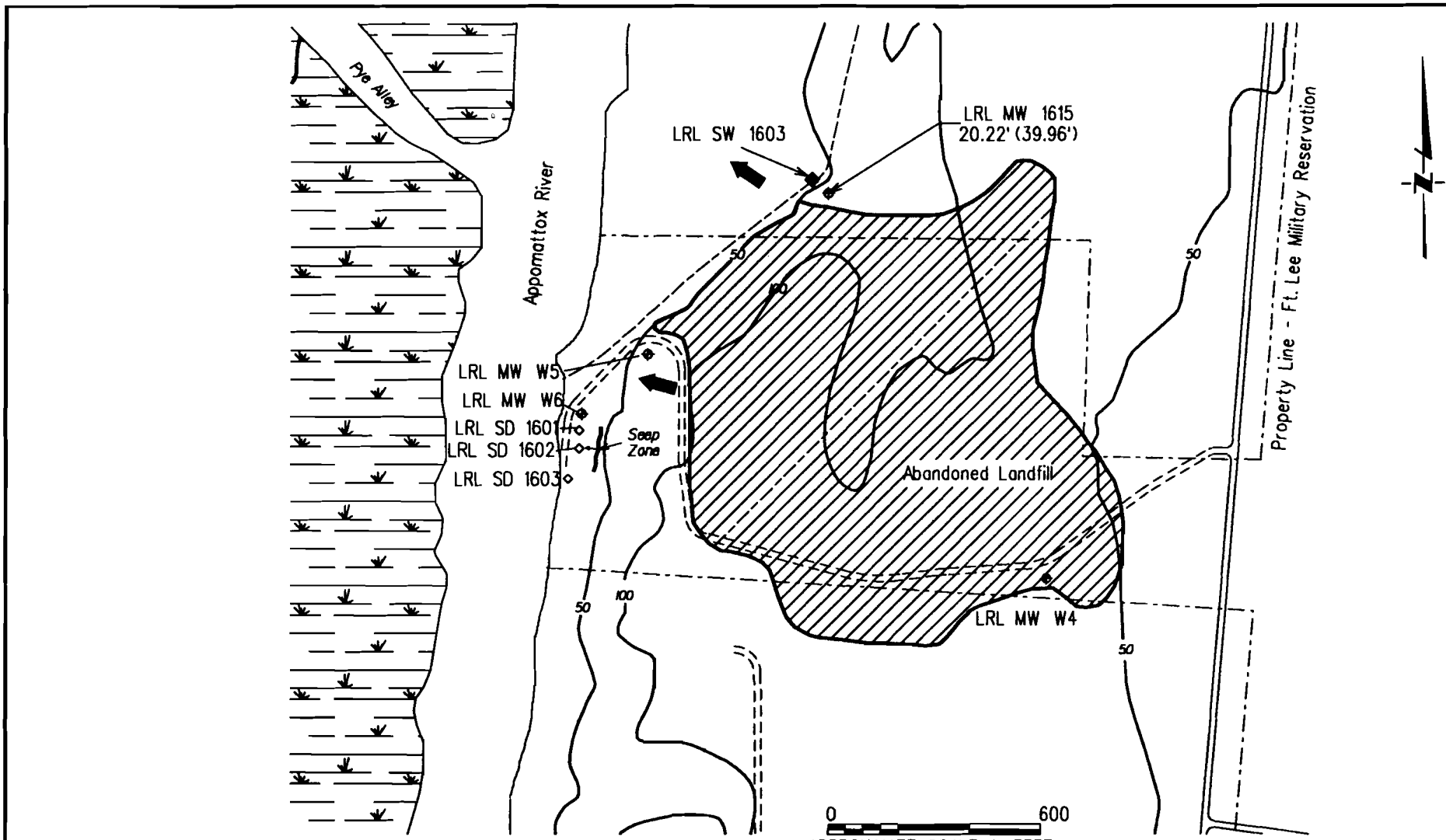
(b) ND - None of the compounds analyzed were detected equal to, or in excess of, the detection limit.

(c) Field parameters were measured after purging and prior to sampling.

A number in bold meets or exceeds the defined trigger level.

A bracketed number (0) is the trigger level.

7.0 Reformatory Road Landfill - RL Site



LEGEND

- ◆ PREVIOUSLY INSTALLED MONITORING WELL
- ⊕ MONITORING WELL
- ◇ SEDIMENT SAMPLE
- ◆ SURFACE WATER SAMPLE

- 20.22' (39.96') → GROUNDWATER ELEVATION (FT, NGVD)
- DEPTH TO WATER TABLE (FT, TOC)
- ← GENERAL GROUNDWATER FLOW DIRECTION
- INTERMITTENT STREAM

**PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VA**

**SAMPLING LOCATIONS
REFORMATORY ROAD LANDFILL - RL SITE**

JMM James M. Montgomery



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TABLE 7-SS

**SOIL SAMPLES - RL SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA**

| Parameter | LRL MS1615(0) Wet Weight (mg/kg) | LRL MS1615(0) Dry Weight (a) (mg/kg) | LRL MS1615(0)D Wet Weight (mg/kg) | LRL MS1615(0)D Dry Weight (mg/kg) | LRL MS1615(12) Wet Weight (mg/kg) | LRL MS1615(12) Dry Weight (mg/kg) | LRL MS1615(18) Wet Weight (mg/kg) | LRL MS1615(18) Dry Weight (mg/kg) |
|------------------|---|---|--|--|--|--|--|--|
| Pesticide/PCBs | ND (b) | ND | ND | ND | ND | ND | ND | ND |
| VOCs | ND | ND | ND | ND | ND | ND | ND | ND |
| BNAs | ND | ND | ND | ND | ND | ND | ND | ND |
| Metals | | | | | | | | |
| Arsenic(Total) | <10 | <10 | 21 | 23.6 | <10 | <10 | <10 | <10 |
| Barium(Total) | 27 | 28.1 | 33 | 37.1 | <10 | <10 | <10 | <10 |
| Chromium(Total) | 7.2 | 7.5 | 24 | 27.0 | 12 | 13.3 | 5.6 | 7.1 |
| Copper(Total) | 1.5 | 1.6 | 6.8 | 7.6 | 2.0 | 2.2 | 1.5 | 1.9 |
| Lead(Total) | 10 | 10.4 | 13 | 14.6 | <10 | <10 | <10 | <10 |
| Mercury(Total) | 0.030 | 0.031 | 0.070 | 0.079 | <0.020 | <0.020 | <0.020 | <0.020 |
| Nickel(Total) | <4.0 | <4.0 | 15 | 16.9 | 6.9 | 7.7 | <4.0 | <4.0 |
| Zinc(Total) | 11 | 11.5 | 59 | 66.3 | 3.7 | 4.1 | 3.7 | 4.7 |
| Total Solids (%) | 96 | 100 | 89 | 100 | 90 | 100 | 79 | 100 |

(a) Values have been converted to a dry weight basis in accordance with

Minimum Chemistry Data Reporting Requirements for DERP and Superfund HTW Projects (USACE,1989)

(b) ND - None of the compounds analyzed were detected equal to, or in excess of, the detection limit.

TABLE 7-SD
SEDIMENT SAMPLES - RL SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LRL SD1604 Wet Weight mg/kg | LRL SD1604 Dry Weight (a) mg/kg | LRL SD1605 Wet Weight mg/kg | LRL SD1605 Dry Weight mg/kg | LRL SD1606 Wet Weight mg/kg | LRL SD1606 Dry Weight mg/kg | LRL SD1606RX Wet Weight mg/kg | LRL SD1606RXD Wet Weight mg/kg |
|------------------|--------------------------------------|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--|---|
| Pesticide/PCBs | ND (b) | ND | ND | ND | ND | ND | NA (c) | NA |
| VOCs | | | | | | | | |
| Toluene | 0.01 | 0.012 | <0.01 | <0.01 | <0.01 | <0.01 | NA | NA |
| BNAs | ND | ND | ND | ND | NR (d) | NR | ND | ND |
| Metals | | | | | | | | |
| Barium(Total) | 25 | 29.4 | 64 | 73.6 | 33 | 40.7 | NA | NA |
| Chromium(Total) | 1.5 | 1.8 | <1.0 | <1.0 | 3.6 | 4.4 | NA | NA |
| Copper(Total) | 2.9 | 3.4 | <1.0 | <1.0 | 5.4 | 6.7 | NA | NA |
| Zinc(Total) | 12 | 14.1 | 8.8 | 10.1 (e) | 10 | 12.3 (e) | NA | NA |
| Total Solids (%) | 85 | 100 | 87 | 100 | 81 | 100 | 85 | 100 |

- (a) Values have been converted to a dry weight basis in accordance with
Minimum Chemistry Data Reporting Requirements for DERP and Superfund HTW Projects (USACE,1989)
- (b) ND - None of the compounds analyzed were detected equal to, or in excess of, the detection limit.
- (c) NA - Not analyzed. Sample re-collected and analyzed for BNAs only.
- (d) NR - Not reported due to laboratory QC problems, BNA results reported in associated RX sample.
- (e) Indicates analyte was found in an associated blank.

TABLE 7-GW
GROUNDWATER SAMPLES - RL SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LRL MW1615 | LRL MWW4 | LRL MWW5 | LRL MWW6 |
|--------------------------|----------------------|----------------------|----------------------|----------------------|
| Pesticide/PCBs (ug/l) | ND (a) | ND | ND | ND |
| VOCs (ug/l) | | | | |
| Benzene | <5.0 (b) | 1.5 | 5.6 (5) (b) | <0.5 |
| Chlorobenzene | <5.0 (b) | 0.5 | <1.5 (b) | <0.5 |
| 1,1-Dichloroethane | 17 (b) | <0.5 | 6.5 (b) | <0.5 |
| Methylene Chloride | <5.0 (b) | 5.0 | <15 (b) | <5.0 |
| Tetrachloroethene | <5.0 (b) | 0.9 | 1.9 (b) | <0.5 |
| Trichloroethene | <5.0 (b) | 1.0 | 2.0 (b) | <0.5 |
| trans 1,2-Dichloroethene | <5.0 (b) | 0.6 | <1.5 (b) | <0.5 |
| cis-1,2-Dichloroethene | <5.0 (b) | 6.4 | 16 (b) | 0.5 |
| 1,4-Dichlorobenzene | <5.0 (b) | 0.7 | 1.9 (b) | <0.5 |
| Vinyl Chloride | <10 (b) | 9.7 (2) | 5.5 (2) (b) | 2.5 (2) |
| BNAs (ug/l) | ND | ND | ND | ND |
| Metals (mg/l) | | | | |
| Arsenic(Total) | <0.005 | <0.005 | 0.010 | <0.005 |
| Barium(Total) | 0.17 | 0.26 | 0.42 | 0.30 |
| Beryllium(Total) | <0.005 | <0.005 | <0.005 | 0.012 |
| Chromium(Total) | 0.010 | 0.026 | <0.010 | 0.016 |
| Copper(Total) | 0.036 | 0.020 | 0.032 | 0.10 |
| Lead(Total) | 0.017 (0.015) | 0.041 (0.015) | 0.016 (0.015) | 0.032 (0.015) |
| Mercury(Total) | 0.014 (0.011) | 0.0004 | <0.0002 | <0.0002 |
| Zinc(Total) | 0.067 (a) | 0.050 (a) | 0.050 (a) | 0.14 |
| Field Parameters (c) | | | | |
| Temperature (°C) | 20.5 | 24.5 | 16 | 36 |
| pH | 4.8 | 4.7 | 4.8 | 6.0 |
| Conductivity (umho) | 129 | 125 | 355 | 135 |
| Turbidity (NTU) | 168 | >200 | 1.3 | >200 |

(a) ND - None of the compounds analyzed were detected equal to, or in excess of, the detection limit.

(b) Sample diluted, increasing associated detection limits.

(c) Field parameters were measured after purging and prior to sampling.

A number in bold meets or exceeds the defined trigger level.

A bracketed number (0) is the trigger level.

TABLE 7-SW
SURFACE WATER SAMPLES - RL SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LRL SW1603 | LRL SW1603D | LRL SW1603RX (a) | LRL SW1603RXD (b) |
|-----------------------|-----------------------|------------------------|-----------------------------|------------------------------|
| Pesticide/PCBs (ug/l) | ND (c) | ND | NA (d) | NA |
| VOCs (ug/l) | ND | ND | NA | NA |
| BNAs (ug/l) | NR (e) | NR | ND | ND |
| Metals (mg/l) | | | | |
| Lead(Total) | 0.018 | 0.004 | NA | NA |
| Zinc(Total) | 0.074 | 0.045 | NA | NA |

(a) RX - Resample

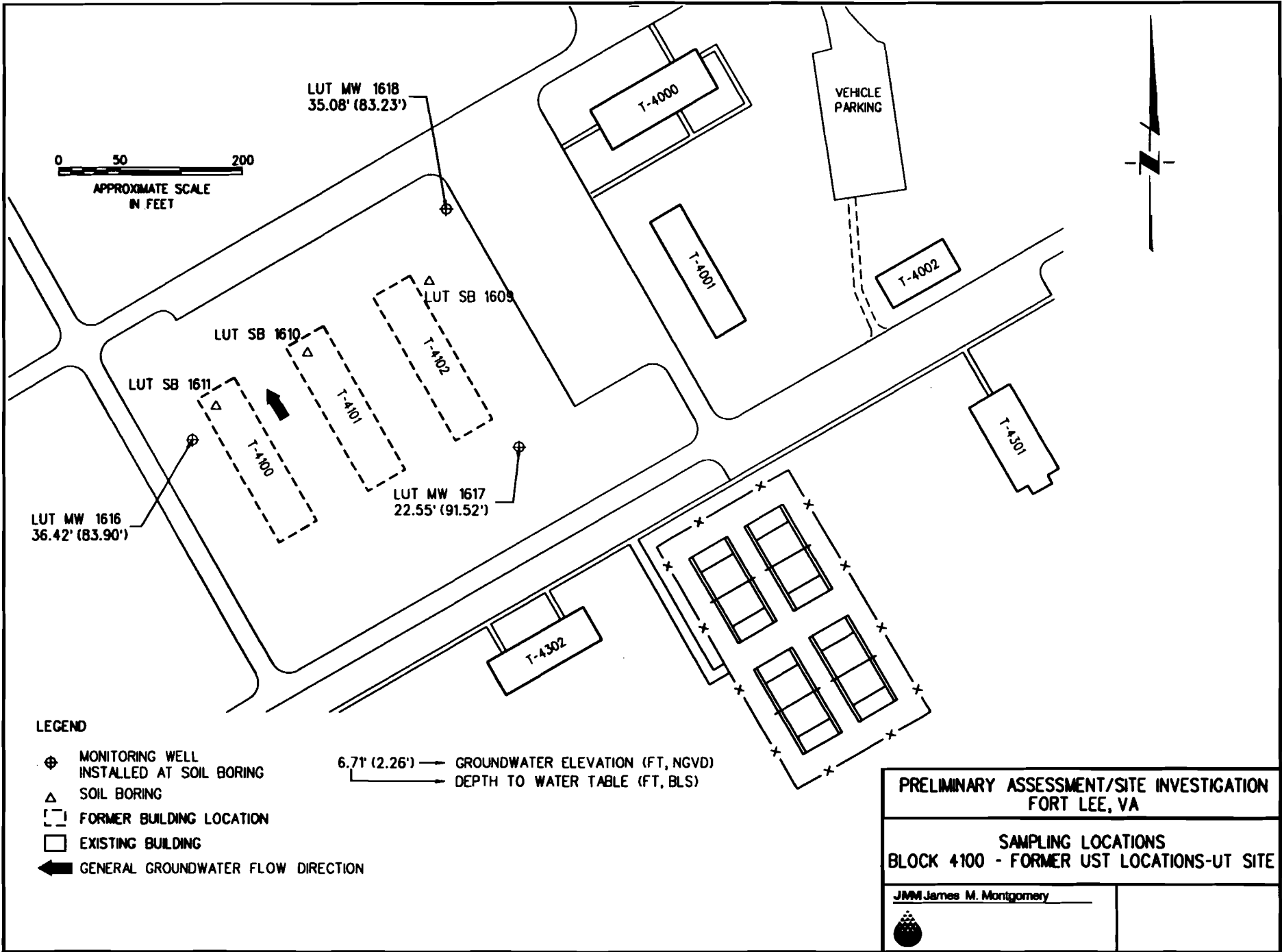
(b) RXD - Resample duplicate

(c) ND - None of the compounds analyzed were detected equal to, or in excess of, the detection limit.

(d) NA - Not analyzed. Sample re-collected and analyzed for BNAs only.

(e) NR - Not reported due to laboratory QC problems, BNA results reported in associated RX sample.

8.0 Block 4100-Former UST Locations - UT Site



LEGEND

- ⊕ MONITORING WELL INSTALLED AT SOIL BORING
- △ SOIL BORING
- ⌈ ⌋ FORMER BUILDING LOCATION
- EXISTING BUILDING
- ➔ GENERAL GROUNDWATER FLOW DIRECTION

6.71' (2.26') → GROUNDWATER ELEVATION (FT, NGVD)
 → DEPTH TO WATER TABLE (FT, BLS)

| | |
|---|--|
| PRELIMINARY ASSESSMENT/SITE INVESTIGATION FORT LEE, VA | |
| SAMPLING LOCATIONS BLOCK 4100 - FORMER UST LOCATIONS-UT SITE | |
| JMM James M. Montgomery | |

TABLE 8-SS
SOIL SAMPLES - UT SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LUT MS1616(0) Wet Weight (mg/kg) | LUT MS1616(0) Dry Weight (a) (mg/kg) | LUT MS1616(4) Wet Weight (mg/kg) | LUT MS1616(4) Dry Weight (mg/kg) | LUT MS1616(44) Wet Weight (mg/kg) | LUT MS1617(0) Wet Weight (mg/kg) |
|-------------------------|---|---|---|---|--|---|
| VOCs | | | | | | |
| Toluene | 0.010 | 0.011 | <0.01 | <0.01 | <0.01 | <0.01 |
| cis-1,2-Dichloroethene | <0.01 | <0.01 | 0.010 | 0.012 | <0.01 | <0.01 |
| Methylethylketone | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| BNAs | ND (b) | ND | ND | ND | ND | ND |
| TFH-L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Total Solids (%) | 94 | 100 | 84 | 100 | 84 | 98 |

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TABLE 8-SS
(Continued)

SOIL SAMPLES - UT SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LUT MS1617(10) Wet Weight (mg/kg) | LUT MS1617(10) Dry Weight (mg/kg) | LUT MS1617(10)D Wet Weight (mg/kg) | LUT MS1617(10)D Dry Weight (mg/kg) | LUT MS1617(18) Wet Weight (mg/kg) | LUT MS1617(18)D Wet Weight (mg/kg) |
|------------------------|--|--|---|---|--|---|
| VOCs | | | | | | |
| Toluene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| cis-1,2-Dichloroethene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Methylethylketone | 0.100 | 0.118 | 0.030 | 0.034 | <0.025 | <0.025 |
| BNAs | ND | ND | ND | ND | ND | ND |
| TFH-L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Total Solids (%) | 85 | 100 | 87 | 100 | 78 | 80 |

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TABLE 8-SS
(Continued)

SOIL SAMPLES - UT SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LUT MS1618(0) Wet Weight (mg/kg) | LUT MS1618(30) Wet Weight (mg/kg) | LUT MS1618(30)D Wet Weight (mg/kg) | LUT MS1618(40) Wet Weight (mg/kg) | LUT SB1609(0) Wet Weight (mg/kg) | LUT SB1609(8) Wet Weight (mg/kg) |
|------------------------|---|--|---|--|---|---|
| VOCs | | | | | | |
| Toluene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| cis-1,2-Dichloroethene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Methylethylketone | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| BNAs | ND | ND | ND | ND | ND | ND |
| TFH-L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Total Solids (%) | 91 | 76 | 80 | 82 | 88 | 88 |

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TABLE 8-SS
(Continued)

SOIL SAMPLES - UT SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LUT SB1609(8)D Wet Weight (mg/kg) | LUT SB1609(18) Wet Weight (mg/kg) | LUT SB1610(0) Wet Weight (mg/kg) | LUT SB1610(18) Wet Weight (mg/kg) | LUT SB1611(0) Wet Weight (mg/kg) | LUT SB1611(2) Wet Weight (mg/kg) | LUT SB1611(18) Wet Weight (mg/kg) |
|------------------------|--|--|---|--|---|---|--|
| VOCs | | | | | | | |
| Toluene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| cis-1,2-Dichloroethene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Methylethylketone | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| BNAs | ND | ND | ND | ND | ND | ND | ND |
| TFH-L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Total Solids (%) | 88 | 78 | 93 | 77 | 89 | 94 | 70 |

(a) Values have been converted to a dry weight basis in accordance with

Minimum Chemistry Data Reporting Requirements for DERP and Superfund HTW Projects (USACE, 1989).

(b) ND - None of the compounds were detected equal to, or in excess of, the detection limit.

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TABLE 8-GW
GROUNDWATER SAMPLES - UT SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LUT MW1616 | LUT MW1617 | LUT MW1618 | LUT MW1618D | LUT MW1618RX(a) |
|------------------------------|---------------|---------------|---------------|----------------|--------------------|
| VOCs (ug/l) | | | | | |
| Chloroform | <0.5 | 1.7 | <0.5 | <0.5 | NA (b) |
| BNA's (ug/l) | | | | | |
| bis (2-Ethylhexyl) Phthalate | <20 | 43 | NR (c) | <20 | <20 |
| TFH-L (mg/l) | ND (d) | ND | ND | ND | NA |
| Field Parameters (d) | | | | | |
| Temperature (°C) | 20 | 19.5 | 20.0 | 20.0 | 20.0 |
| pH | 6.3 | 5.4 | 5.6 | 5.6 | 5.4 |
| Conductivity (umho) | 77 | 38 | 49 | 49 | 43 |
| Turbidity (NTU) | 12 | 1.79 | >200 | >200 | 105.4 |

(a) RX - Resample

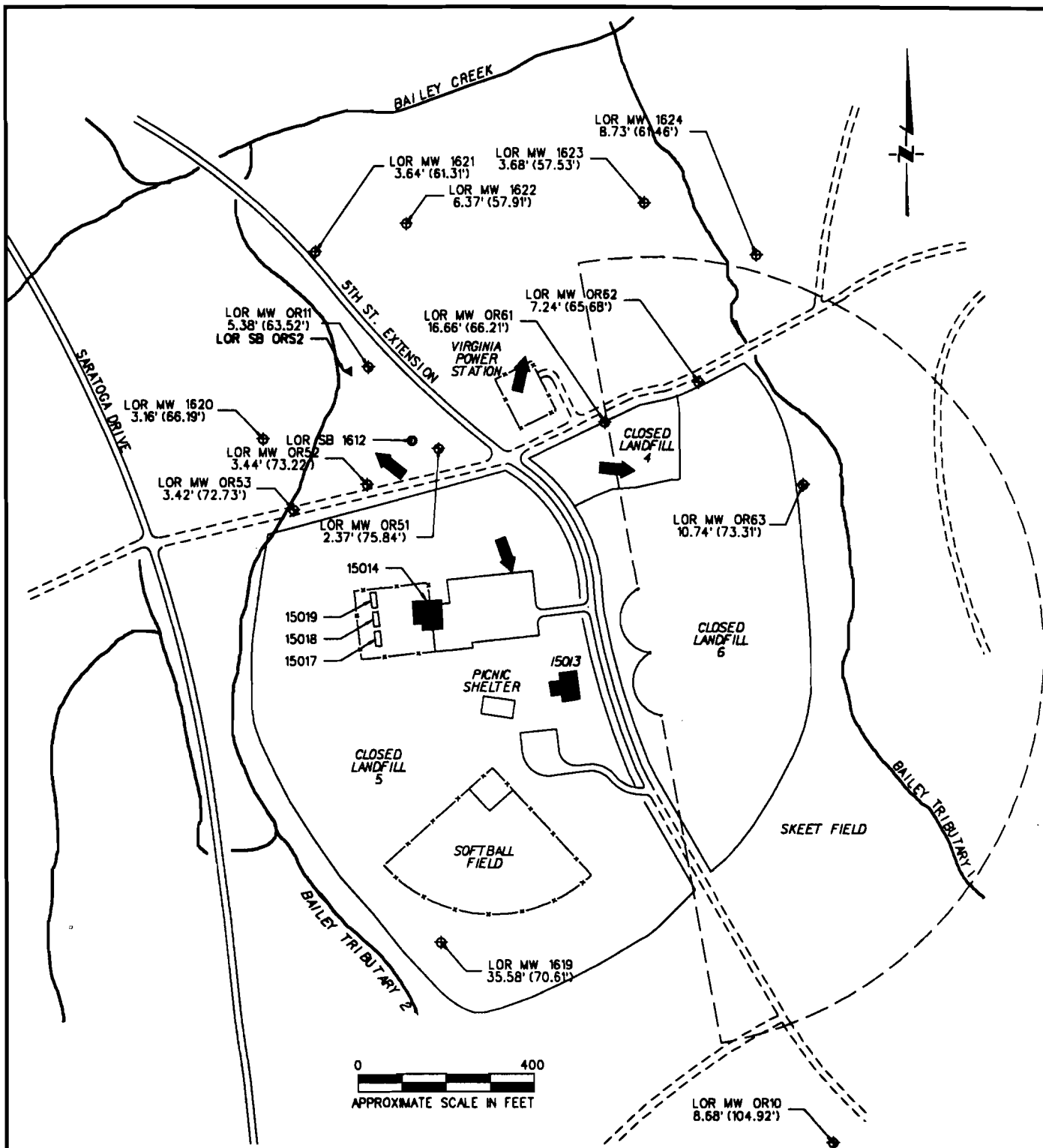
(c) NA - Not analyzed. Sample re-collected and analyzed for BNA's only.

(b) ND - None of the compounds analyzed were detected equal to, or in excess of, the detection limit.

(c) NR - Not reported due to laboratory QC problems, BNA results reported in associated RX sample.

(d) Field parameters were measured after purging and prior to sampling.

9.0 Sites 4, 5 & 6-The Outdoor Recreation Area - OR Site



LEGEND

- ◆ PREVIOUSLY INSTALLED MONITORING WELL
 - ▲ PREVIOUS SOIL BORING
 - ⊕ MONITORING WELL INSTALLED AT SOIL BORING LOCATION
 - SOIL BORING LOCATION
 - ← APPARENT GROUNDWATER FLOW DIRECTION
 - UNDERGROUND STORAGE TANKS
 - EXISTING BUILDINGS
- 35.58' (70.61') — GROUNDWATER ELEVATION (FT, NGVD)
 — DEPTH TO WATER (FT, TOC)


| | |
|---|--|
| PRELIMINARY ASSESSMENT/SITE INVESTIGATION FORT LEE, VA | |
| SAMPLING LOCATIONS OUTDOOR RECREATION AREA - OR SITE | |
| JMM James M. Montgomery | |
|  | |

TABLE 9-SS
SOIL SAMPLES - OR SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LOR MS1619(0) Wet Weight (mg/kg) | LOR MS1619(0) Dry Weight (a) (mg/kg) | LOR MS1619(14) Wet Weight (mg/kg) | LOR MS1619(14) Dry Weight (mg/kg) | LOR MS1619(64) Wet Weight (mg/kg) | LOR MS1619(64) Dry Weight (mg/kg) | LOR MS1620(0) Wet Weight (mg/kg) | LOR MS1620(0) Dry Weight (mg/kg) |
|-------------------------|---|---|--|--|--|--|---|---|
| Pesticides/PCBs | | | | | | | | |
| p,p'-DDD | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| p,p'-DDE | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| p,p'-DDT | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| Dieldrin | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| VOCs | | | | | | | | |
| Trichloroethene | <0.01 | <0.01 | <0.01 | <0.01 | 55 | 79.7 | <0.01 | <0.01 |
| cis-1,2-Dichloroethene | <0.01 | <0.01 | <0.01 | <0.01 | 25 | 36.2 | <0.01 | <0.01 |
| Methylethylketone | <0.025 | <0.025 | 0.100 | 0.119 | <2.5 | <2.5 | <0.025 | <0.025 |
| BNAs | | | | | | | | |
| BNAs | ND | ND | ND | ND | ND | ND | ND | ND |
| TFH-L | | | | | | | | |
| TFH-L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Metals | | | | | | | | |
| Arsenic(Total) | <10 | <10 | 19 | 22.6 | <10 | <10 | <10 | <10 |
| Barium(Total) | 18 | 19.1 | 22 | 26.2 | 54 | 78.3 | 13 | 14.0 |
| Beryllium(Total) | <0.5 | <0.5 | 0.7 | 0.8 | 7.0 | 10.1 | <0.5 | <0.5 |
| Cadmium(Total) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chromium(Total) | 4.7 | 5.0 | 20 | 23.8 | 16 | 23.2 | 4.9 | 5.3 |
| Copper(Total) | 2.4 | 2.6 | 2.4 | 2.9 | 31 | 44.9 | <1.0 | <1.0 |
| Lead(Total) | 19 | 20.2 | <10 | <10 | <10 | <10 | <10 | <10 |
| Mercury(Total) | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 |
| Nickel(Total) | 4.1 | 4.4 | 13 | 15.5 | 17 | 24.6 | <4.0 | <4.0 |
| Zinc(Total) | 12 | 12.8 | 21 | 25.0 | 100 | 145 | 14 | 15.1 |
| Total Solids (%) | | | | | | | | |
| Total Solids (%) | 92 | 100 | 84 | 100 | 69 | 100 | 93 | 100 |

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TABLE 9-SS
(Continued)

SOIL SAMPLES - OR SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LOR MS1620(2) Wet Weight (mg/kg) | LOR MS1620(2) Dry Weight (mg/kg) | LOR MS1620(4) Wet Weight (mg/kg) | LOR MS1620(4) Dry Weight (mg/kg) | LOR MS1621(0) Wet Weight (mg/kg) | LOR MS1621(0) Dry Weight (mg/kg) | LOR MS1621(4) Wet Weight (mg/kg) | LOR MS1621(4) Dry Weight (mg/kg) |
|------------------------|---|---|---|---|---|---|---|---|
| Pesticides/PCBs | | | | | | | | |
| p,p'-DDD | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| p,p'-DDE | <0.004 | <0.004 | <0.004 | <0.004 | 0.042 | 0.044 | <0.004 | <0.004 |
| p,p'-DDT | <0.004 | <0.004 | <0.004 | <0.004 | 0.090 | 0.096 | 0.074 | 0.079 |
| Dieldrin | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | 0.036 | 0.038 |
| VOCs | | | | | | | | |
| Trichloroethene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| cis-1,2-Dichloroethene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Methylethylketone | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | 0.060 | 0.064 |
| BNAs | | | | | | | | |
| | ND | ND | ND | ND | ND | ND | ND | ND |
| TFH-L | | | | | | | | |
| | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Metals | | | | | | | | |
| Arsenic(Total) | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Barium(Total) | 29 | 33.0 | 30 | 35.3 | 10 | 10.6 | <10 | <10 |
| Beryllium(Total) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Cadmium(Total) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chromium(Total) | 5.2 | 5.9 | 8.2 | 9.6 | 4.3 | 4.6 | 4.1 | 4.4 |
| Copper(Total) | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Lead(Total) | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Mercury(Total) | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 |
| Nickel(Total) | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 |
| Zinc(Total) | 7.8 | 8.9 | 9.8 | 11.5 | 5.2 | 5.5 | 5.5 | 5.9 |
| Total Solids (%) | 88 | 100 | 85 | 100 | 94 | 100 | 94 | 100 |

TABLE 9-SS
(Continued)

SOIL SAMPLES - OR SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LOR MS1621(18) Wet Weight (mg/kg) | LOR MS1621(18) Dry Weight (mg/kg) | LOR MS1622(0) Wet Weight (mg/kg) | LOR MS1622(0) Dry Weight (mg/kg) | LOR MS1622(0)D Wet Weight (mg/kg) | LOR MS1622(0)D Dry Weight (mg/kg) | LOR MS1622(4) Wet Weight (mg/kg) | LOR MS1622(4) Dry Weight (mg/kg) |
|------------------------|--|--|---|---|--|--|---|---|
| Pesticides/PCBs | | | | | | | | |
| p,p'-DDD | <0.004 | <0.004 | 0.012 | 0.012 (c) | <0.080 | <0.080 (c) | <0.004 | <0.004 |
| p,p'-DDE | <0.004 | <0.004 | 0.290 | 0.305 (c) | 0.340 | 0.354 (c) | 0.034 | 0.037 |
| p,p'-DDT | <0.004 | <0.004 | 0.240 | 0.253 (c) | 0.270 | 0.281 (c) | 0.032 | 0.035 |
| Dieldrin | <0.004 | <0.004 | <0.080 | <0.080 (c) | <0.080 | <0.080 (c) | <0.004 | <0.004 |
| VOCs | | | | | | | | |
| Trichloroethene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| cis-1,2-Dichloroethene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Methylethylketone | 0.040 | 0.057 | <0.025 | <0.025 | <0.025 | <0.025 | 0.030 | 0.033 |
| BNAs | | | | | | | | |
| | ND | ND | ND | ND | ND | ND | ND | ND |
| TFH-L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Metals | | | | | | | | |
| Arsenic(Total) | 25 | 35.7 | <10 | <10 | <10 | <10 | <10 | <10 |
| Barium(Total) | 110 | 157.1 | 28 | 29.5 | 21 | 21.9 | 16 | 17.6 |
| Beryllium(Total) | 0.53 | 0.8 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Cadmium(Total) | 0.70 | 1.0 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chromium(Total) | 30 | 42.9 | 7.7 | 8.1 | 12 | 12.5 | 5.7 | 6.3 |
| Copper(Total) | <1.0 | <1.0 | 6.4 | 6.7 | 3.9 | 4.1 | <1.0 | <1.0 |
| Lead(Total) | <10 | <10 | 33 | 34.7 | 20 | 20.8 | <10 | <10 |
| Mercury(Total) | <0.020 | <0.020 | 0.040 | 0.042 | 0.040 | 0.042 | <0.020 | <0.020 |
| Nickel(Total) | 17 | 24.3 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 |
| Zinc(Total) | 39 | 55.7 | 34 | 35.8 | 23 | 24.0 | 8.1 | 8.9 |
| Total Solids (%) | 70 | 100 | 95 | 100 | 96 | 100 | 91 | 100 |

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TABLE 9-SS
(Continued)

SOIL SAMPLES - OR SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LOR MS1622(6) Wet Weight (mg/kg) | LOR MS1622(6) Dry Weight (mg/kg) | LOR MS1623(0) Wet Weight (mg/kg) | LOR MS1623(0) Dry Weight (mg/kg) | LOR MS1623(2) Wet Weight (mg/kg) | LOR MS1623(2) Dry Weight (mg/kg) | LOR MS1623(4) Wet Weight (mg/kg) | LOR MS1623(4) Dry Weight (mg/kg) |
|------------------------|---|---|---|---|---|---|---|---|
| Pesticides/PCBs | | | | | | | | |
| p,p'-DDD | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| p,p'-DDE | 0.020 | 0.023 | 0.014 | 0.016 | <0.004 | <0.004 | <0.004 | <0.004 |
| p,p'-DDT | 0.020 | 0.023 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| Dieldrin | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| VOCs | | | | | | | | |
| Trichloroethene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| cis-1,2-Dichloroethene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Methylethylketone | 0.040 | 0.045 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| BNAs | | | | | | | | |
| | ND | ND | ND | ND | ND | ND | ND | ND |
| TFH-L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Metals | | | | | | | | |
| Arsenic(Total) | <10 | <10 | <10 | <10 | <10 | <10 | <10 | <10 |
| Barium(Total) | 26 | 29.5 | 39 | 45.3 | 39 | 48.1 | <10 | <10 |
| Beryllium(Total) | <0.5 | <0.5 | 0.5 | 0.6 | 0.7 | 0.9 | <0.5 | <0.5 |
| Cadmium(Total) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chromium(Total) | 7.3 | 8.3 | 7.7 | 9.0 | 9.9 | 12.2 | 3.2 | 4.0 |
| Copper(Total) | 1.8 | 2.0 | 3.4 | 4.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| Lead(Total) | <10 | <10 | 19 | 22.1 | <10 | <10 | <10 | <10 |
| Mercury(Total) | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 |
| Nickel(Total) | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 | <4.0 |
| Zinc(Total) | 7.4 | 8.4 | 21 | 24.4 | 11 | 13.6 | 3.0 | 3.8 |
| Total Solids (%) | 88 | 100 | 86 | 100 | 81 | 100 | 80 | 100 |

TABLE 9-SS
(Continued)

SOIL SAMPLES - OR SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LOR MS1624(0) Wet Weight (mg/kg) | LOR MS1624(0) Dry Weight (mg/kg) | LOR MS1624(4) Wet Weight (mg/kg) | LOR MS1624(4) Dry Weight (mg/kg) | LOR MS1624(4)D Wet Weight (mg/kg) | LOR MS1624(4)D Dry Weight (mg/kg) | LOR MS1624(8) Wet Weight (mg/kg) | LOR MS1624(8) Dry Weight (mg/kg) |
|------------------------|---|---|---|---|--|--|---|---|
| Pesticides/PCBs | | | | | | | | |
| pp'-DDD | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| pp'-DDE | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| pp'-DDT | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| Dieldrin | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| VOCs | | | | | | | | |
| Trichloroethene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| cis-1,2-Dichloroethene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Methylethylketone | <0.025 | <0.025 | <0.025 | <0.025 | 0.050 | 0.061 | 0.040 | 0.049 |
| BNAs | ND | ND | ND | ND | ND | ND | ND | ND |
| TFH-L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Metals | | | | | | | | |
| Arsenic(Total) | <10 | <10 | <10 | <10 | 12 | 14.6 | 15 | 18.5 |
| Barium(Total) | 21 | 24.7 | 35 | 41.7 | 28 | 34.1 | 59 | 72.8 |
| Beryllium(Total) | <0.5 | <0.5 | 0.7 | 0.8 | 0.5 | 0.6 | 1.3 | 1.6 |
| Cadmium(Total) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chromium(Total) | 5.3 | 6.2 | 17 | 20.2 | 15 | 18.3 | 24 | 29.6 |
| Copper(Total) | 1.7 | 2.0 | 6.9 | 8.2 | 5.3 | 6.5 | 14 | 17.3 |
| Lead(Total) | 10 | 11.8 | 11 | 13.1 | <10 | <10 | 11 | 13.6 |
| Mercury(Total) | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 |
| Nickel(Total) | 4.2 | 4.9 | 7.8 | 9.3 | 7.7 | 9.4 | 14 | 17.3 |
| Zinc(Total) | 9.7 | 11.4 | 29 | 34.5 | 25 | 30.5 | 55 | 67.9 |
| Total Solids (%) | 85 | 100 | 84 | 100 | 82 | 100 | 81 | 100 |

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TABLE 9-SS
(Continued)

SOIL SAMPLES - OR SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LOR SB1612 (0) Wet Weight (mg/kg) | LOR SB1612 (0) Dry Weight (mg/kg) | LOR SB1612 (2) Wet Weight (mg/kg) | LOR SB1612 (2) Dry Weight (mg/kg) | LOR SB1612 (10) Wet Weight (mg/kg) | LOR SB1612 (10) Dry Weight (mg/kg) |
|------------------------|--|--|--|--|---|---|
| Pesticides/PCBs | | | | | | |
| p,p'-DDD | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| p,p'-DDE | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| p,p'-DDT | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| Dieldrin | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 | <0.004 |
| VOCs | | | | | | |
| Trichloroethene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| cis-1,2-Dichloroethene | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 |
| Methylethylketone | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 | <0.025 |
| BNAs | | | | | | |
| | ND | ND | ND | ND | ND | ND |
| TFH-L | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 | <0.20 |
| Metals | | | | | | |
| Arsenic(Total) | <10 | <10 | 12 | 13.5 | <10 | <10 |
| Barium(Total) | 22 | 23.7 | 29 | 32.6 | 13 | 15.1 |
| Beryllium(Total) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Cadmium(Total) | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Chromium(Total) | 6.0 | 6.5 | 16 | 18.0 | 8.5 | 9.9 |
| Copper(Total) | 1.3 | 1.4 | 2.2 | 2.5 | 1.2 | 1.4 |
| Lead(Total) | 15 | 16.1 | <10 | <10 | <10 | <10 |
| Mercury(Total) | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 | <0.020 |
| Nickel(Total) | <4.0 | <4.0 | 4.9 | 5.5 | <4.0 | <4.0 |
| Zinc(Total) | 10 | 10.8 | 9.9 | 11.1 | 5.7 | 6.6 |
| Total Solids (%) | 93 | 100 | 89 | 100 | 86 | 100 |

- (a) Values have been converted to a dry weight basis in accordance with
Minimum Chemistry Data Reporting Requirements for DERP and Superfund HTW Projects (USACE,1989).
- (b) ND - None of the compounds analyzed were detected equal to, or in excess of, the detection limit.
- (c) Sample diluted, increasing associated detection limits.

TABLE 9-GW
GROUNDWATER SAMPLES - OR SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LOR MW1619 | LOR MW1619D | LOR MW1619RX(a) | LOR MW1620 |
|------------------------------|---------------|----------------|--------------------|----------------------|
| Pesticide/PCBs (ug/l) | ND (b) | ND | NA (c) | ND |
| VOCs (ug/l) | | | | |
| Benzene | <12.5 (d) | <50 (d) | NA | <0.5 |
| Ethylbenzene | <12.5 (d) | <50 (d) | NA | <0.5 |
| Toluene | <12.5 (d) | <50 (d) | NA | <0.5 |
| m,p-Xylenes | <12.5 (d) | <50 (d) | NA | <0.5 |
| 1,4-Dichlorobenzene | <12.5 (d) | <50 (d) | NA | <0.5 |
| Methylethylketone | <12.5 (d) | <50 (d) | NA | 4.3 |
| Carbon Disulfide | 110 (d) | <50 (d) | NA | 0.50 |
| o-Xylene | <12.5 (d) | <50 (d) | NA | <0.5 |
| BNAAs (ug/l) | | | | |
| Acenaphthene | NR(e) | NR | <5.0 | <5.0 |
| bis (2-Ethylhexyl) Phthalate | NR | NR | <20 | <20 |
| Fluorene | NR | NR | <5.0 | <5.0 |
| Naphthalene | NR | NR | <5.0 | <5.0 |
| Phenanthrene | NR | NR | <5.0 | <5.0 |
| 2-Methylnaphthalene | NR | NR | <5.0 | <5.0 |
| Dibenzofuran | NR | NR | <5.0 | <5.0 |
| TFH-L (mg/l) | <0.05 | <0.05 | NA | <0.05 |
| Metals (mg/l) | | | | |
| Arsenic(Total) | <0.005 | NA | NA | 0.007 |
| Barium(Total) | 0.210 | NA | NA | 0.27 |
| Beryllium(Total) | <0.005 | NA | NA | <0.005 |
| Chromium(Total) | 0.15 | NA | NA | 0.013 |
| Copper(Total) | <0.010 | NA | NA | 0.069 |
| Lead(Total) | 0.004 | NA | NA | 0.016 (0.015) |
| Nickel(Total) | 0.047 | NA | NA | <0.040 |
| Selenium(Total) | <0.005 | NA | NA | <0.005 |
| Zinc(Total) | 0.21 | NA | NA | 0.16 |
| Field Parameters (f) | | | | |
| Temperature (°C) | 20.0 | 20.0 | 20.6 | 23.0 |
| pH | 7.4 | 7.4 | 6.8 | 6.3 |
| Conductivity (umho) | 200 | 200 | 175 | 440 |
| Turbidity (NTU) | 83.5 | 83.5 | 98 | >200 |

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TABLE 9-GW
(Continued)

GROUNDWATER SAMPLES - OR SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LOR MW1621 | LOR MW1621RX | LOR MW1622 | LOR MW1622D |
|------------------------------|---------------|-----------------|----------------------|----------------------|
| Pesticide/PCBs (ug/l) | ND | NA (g) | ND | ND |
| VOCs (ug/l) | | | | |
| Benzene | <1.5 (d) | NA | <0.5 | <0.5 |
| Ethylbenzene | <1.5 (d) | NA | <0.5 | <0.5 |
| Toluene | <1.5 (d) | NA | <0.5 | <0.5 |
| m,p-Xylenes | <1.5 (d) | NA | <0.5 | <0.5 |
| 1,4-Dichlorobenzene | <1.5 (d) | NA | <0.5 | <0.5 |
| Methylethylketone | <3.0 (d) | NA | <1.0 | <1.0 |
| Carbon Disulfide | 7.7 (d) (g) | NA | 10 (g) | <0.5 |
| o-Xylene | <1.5 (d) | NA | <0.5 | <0.5 |
| BNAs (ug/l) | | | | |
| Acenaphthene | <5.0 | <5.0 | NR | NR |
| bis (2-Ethylhexyl) Phthalate | <20 | <20 | NR | NR |
| Fluorene | <5.0 | <5.0 | NR | NR |
| Naphthalene | <5.0 | <5.0 | NR | NR |
| Phenanthrene | <5.0 | <5.0 | NR | NR |
| 2-Methylnaphthalene | <5.0 | <5.0 | NR | NR |
| Dibenzofuran | <5.0 | <5.0 | NR | NR |
| TFH-L (mg/l) | <0.05 | NA | 0.14 | 0.16 |
| Metals (mg/l) | | | | |
| Arsenic(Total) | 0.005 | NA | 0.051 | 0.052 |
| Barium(Total) | <0.100 | NA | 0.26 | 0.16 |
| Beryllium(Total) | <0.005 | NA | 0.029 (0.001) | 0.015 (0.001) |
| Chromium(Total) | <0.010 | NA | 0.042 | 0.035 |
| Copper(Total) | 0.037 | NA | 0.022 | 0.024 |
| Lead(Total) | 0.010 | NA | 0.047 (0.015) | 0.034 (0.015) |
| Nickel(Total) | <0.040 | NA | 0.1 (0.1) | 0.082 |
| Selenium(Total) | <0.005 | NA | <0.005 | <0.005 |
| Zinc(Total) | 0.20 | NA | 0.23 | 0.18 |
| Field Parameters (f) | | | | |
| Temperature (°C) | 20.0 | 20.0 | 15.2 | 15.2 |
| pH | 6.4 | 6.4 | 5.8 | 5.8 |
| Conductivity (umho) | 120 | 115 | 137 | 137 |
| Turbidity (NTU) | 5-15 (est) | 1 (est) | 73.9 | 73.9 |

TABLE 9-GW
(Continued)

GROUNDWATER SAMPLES - OR SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LOR MW1622RX | LOR MW1623 | LOR MW1624 | LOR MW1624RX |
|------------------------------|-----------------|---------------|----------------------|-----------------|
| Pesticide/PCBs (ug/l) | NA | ND | ND | NA |
| VOCs (ug/l) | | | | |
| Benzene | NA | <0.5 | <0.5 | NA |
| Ethylbenzene | NA | <0.5 | <0.5 | NA |
| Toluene | NA | 0.70 (g) | <0.5 | NA |
| m,p-Xylenes | NA | 0.50 (g) | <0.5 | NA |
| 1,4-Dichlorobenzene | NA | <0.5 | <0.5 | NA |
| Methylethylketone | NA | <1.0 | <1.0 | NA |
| Carbon Disulfide | NA | 10 (g) | 1.0 | NA |
| o-Xylene | NA | <0.5 | <0.5 | NA |
| BNAs (ug/l) | | | | |
| Acenaphthene | <5.0 | <5.0 | NR | <5.0 |
| bis (2-Ethylhexyl) Phthalate | <20 | <20 | NR | <20 |
| Fluorene | <5.0 | <5.0 | NR | <5.0 |
| Naphthalene | <5.0 | <5.0 | NR | <5.0 |
| Phenanthrene | <5.0 | <5.0 | NR | <5.0 |
| 2-Methylnaphthalene | <5.0 | <5.0 | NR | <5.0 |
| Dibenzofuran | <5.0 | <5.0 | NR | <5.0 |
| TFH-L (mg/l) | NA | 0.09 | <0.05 | NA |
| Metals (mg/l) | | | | |
| Arsenic(Total) | NA | <0.005 | 0.36 (0.05) | NA |
| Barium(Total) | NA | 0.10 | 0.67 | NA |
| Beryllium(Total) | NA | <0.005 | 0.015 (0.001) | NA |
| Chromium(Total) | NA | <0.010 | 0.14 | NA |
| Copper(Total) | NA | <0.010 | 0.27 | NA |
| Lead(Total) | NA | 0.003 | 0.062 (0.015) | NA |
| Nickel(Total) | NA | <0.040 | 0.10 (0.1) | NA |
| Selenium(Total) | NA | <0.005 | <0.009 | NA |
| Zinc(Total) | NA | 0.062(f) | 0.35 | NA |
| Field Parameters (f) | | | | |
| Temperature (°C) | 15.2 | 28.0 | 26.0 | 16.7 |
| pH | 5.8 | 6.6 | 6.0 | 6.0 |
| Conductivity (umho) | 137 | 265 | 90 | 150 |
| Turbidity (NTU) | 73.7 | 28 | >200 | >200 |

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TABLE 9-GW
(Continued)
GROUNDWATER SAMPLES - OR SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LOR MWOR51 | LOR MWOR51RX | LOR MWOR52 | LOR MWOR52D |
|------------------------------|----------------------|-----------------|----------------------|----------------------|
| Pesticide/PCBs (ug/l) | ND | NA | ND | ND |
| VOCs (ug/l) | | | | |
| Benzene | 4.1(d) | NA | <0.5 | <0.5 |
| Ethylbenzene | 32(d) | NA | <0.5 | <0.5 |
| Toluene | <2.5(d) | NA | <0.5 | <0.5 |
| m,p-Xylenes | <2.5(d) | NA | <0.5 | <0.5 |
| 1,4-Dichlorobenzene | <2.5(d) | NA | 0.70 | <0.5 |
| Methylethylketone | <5.0(d) | NA | 3.6 | 3.9 |
| Carbon Disulfide | 2.8(d) | NA | 7.0 | 3.3 |
| o-Xylene | 3.6(d) | NA | <0.5 | <0.5 |
| BNAs (ug/l) | | | | |
| Acenaphthene | NR | <5.0 | NR | NR |
| bis (2-Ethylhexyl) Phthalate | NR | <20 | NR | NR |
| Fluorene | NR | <5.0 | NR | NR |
| Naphthalene | NR | <5.0 | NR | NR |
| Phenanthrene | NR | 110 | NR | NR |
| 2-Methylnaphthalene | NR | 110 | NR | NR |
| Dibenzofuran | NR | <5.0 | NR | NR |
| TFH-L (mg/l) | 5.3 (1) | NA | 0.39 | 0.47 |
| Metals (mg/l) | | | | |
| Arsenic(Total) | 0.022 | NA | 0.008 | <0.005 |
| Barium(Total) | 0.13 | NA | 0.15 | <0.100 |
| Beryllium(Total) | <0.005 | NA | <0.005 | <0.005 |
| Chromium(Total) | 0.049 | NA | 0.049 | 0.017 |
| Copper(Total) | 0.041 | NA | 0.024 | 0.013 |
| Lead(Total) | 0.025 (0.015) | NA | 0.035 (0.015) | 0.017 (0.015) |
| Nickel(Total) | <0.040 | NA | <0.040 | <0.040 |
| Selenium(Total) | <0.005 | NA | 0.005 | <0.005 |
| Zinc(Total) | 0.14 | NA | 0.17 | 0.14 |
| Field Parameters (f) | | | | |
| Temperature (°C) | 22.0 | 26.0 | 24.0 | 24.0 |
| pH | 5.7 | 5.3 | 5.4 | 5.4 |
| Conductivity (umho) | 110 | 125 | 95 | 95 |
| Turbidity (NTU) | >200 | 8.3 | 180 (est) | 180 (est) |

TABLE 9-GW
(Continued)

GROUNDWATER SAMPLES - OR SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LOR MWOR52RX | LOR MWOR52RXD(h) | LOR MWOR53 |
|------------------------------|-----------------|---------------------|---------------|
| Pesticide/PCBs (ug/l) | NA | NA | ND |
| VOCs (ug/l) | | | |
| Benzene | NA | NA | <12.5 (d) |
| Ethylbenzene | NA | NA | <12.5 (d) |
| Toluene | NA | NA | <12.5 (d) |
| m,p-Xylenes | NA | NA | <12.5 (d) |
| 1,4-Dichlorobenzene | NA | NA | <12.5 (d) |
| Methylethylketone | NA | NA | <25 (d) |
| Carbon Disulfide | NA | NA | 160 (d) |
| o-Xylene | NA | NA | <12.5 (d) |
| BNAs (ug/l) | | | |
| Acenaphthene | 5.6 | 5.6 | <5.0 |
| bis (2-Ethylhexyl) Phthalate | <20 | <20 | <20 |
| Fluorene | 7.3 | 6.7 | <5.0 |
| Naphthalene | <5.0 | <5.0 | <5.0 |
| Phenanthrene | <5.0 | <5.0 | <5.0 |
| 2-Methylnaphthalene | <5.0 | <5.0 | <5.0 |
| Dibenzofuran | 6.3 | 6.7 | <5.0 |
| TFH-L (mg/l) | NA | NA | 0.46 |
| Metals (mg/l) | | | |
| Arsenic(Total) | NA | NA | <0.005 |
| Barium(Total) | NA | NA | 0.15 |
| Beryllium(Total) | NA | NA | <0.005 |
| Chromium(Total) | NA | NA | <0.010 |
| Copper(Total) | NA | NA | 0.085 |
| Lead(Total) | NA | NA | 0.047 (0.015) |
| Nickel(Total) | NA | NA | <0.040 |
| Selenium(Total) | NA | NA | <0.005 |
| Zinc(Total) | NA | NA | 0.26 |
| Field Parameters (f) | | | |
| Temperature (°C) | 16.4 | 16.4 | 25.0 |
| pH | 5.1 | 5.1 | 6.1 |
| Conductivity (umho) | 87 | 87 | 325 |
| Turbidity (NTU) | >200 | >200 | >200 |

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TABLE 9-GW
(Continued)

GROUNDWATER SAMPLES - OR SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

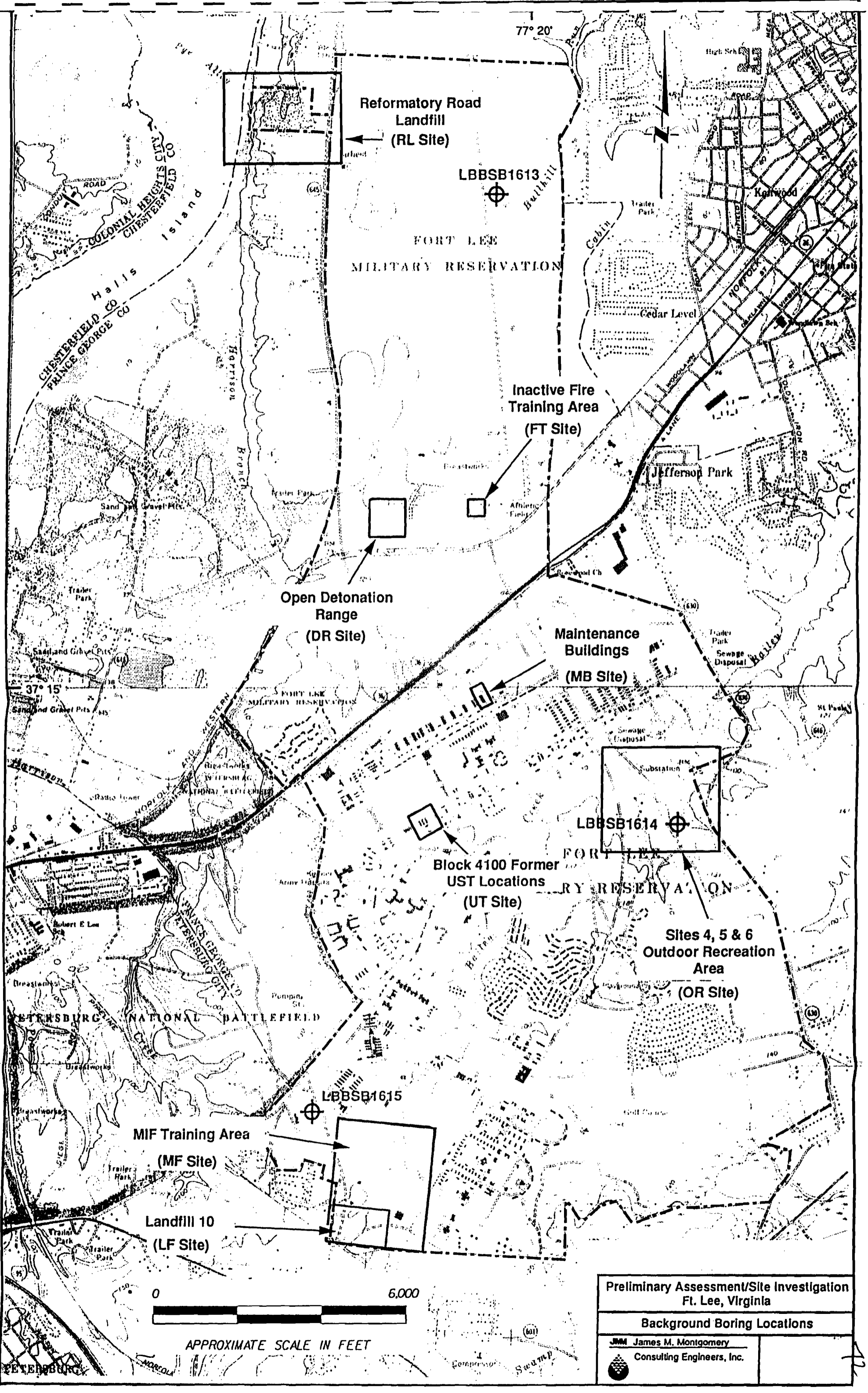
| Parameter | LOR MWOR61 | LOR MWOR61RX | LOR MWOR62 | LOR MWOR62D |
|------------------------------|----------------------|-----------------|----------------------|----------------------|
| Pesticide/PCBs (ug/l) | ND | NA | ND | ND |
| VOCs (ug/l) | | | | |
| Benzene | <1.5 (d) | NA | <12.5 (d) | <0.5 |
| Ethylbenzene | <1.5 (d) | NA | <12.5 (d) | <0.5 |
| Toluene | <1.5 (d) | NA | <12.5 (d) | <0.5 |
| m,p-Xylenes | <1.5 (d) | NA | <12.5 (d) | <0.5 |
| 1,4-Dichlorobenzene | <1.5 (d) | NA | <12.5 (d) | <0.5 |
| Methylethylketone | <3.0 (d) | NA | <25 (d) | <1.0 |
| Carbon Disulfide | 14 d) | NA | 100 (d) | 1.4 |
| o-Xylene | <1.5 (d) | NA | <12.5 (d) | <0.5 |
| BNAs (ug/l) | | | | |
| Acenaphthene | NR | <5.0 | NR | NR |
| bis (2-Ethylhexyl) Phthalate | NR | 44 | NR | NR |
| Fluorene | NR | <5.0 | NR | NR |
| Naphthalene | NR | 17 | NR | NR |
| Phenanthrene | NR | <5.0 | NR | NR |
| 2-Methylnaphthalene | NR | 18 | NR | NR |
| Dibenzofuran | NR | <5.0 | NR | NR |
| TFH-L (mg/l) | 0.62 | NA | 0.36 | 0.32 |
| Metals (mg/l) | | | | |
| Arsenic(Total) | 0.072 (0.05) | NA | 0.036 | 0.025 |
| Barium(Total) | 0.55 | NA | 0.18 | <0.100 |
| Beryllium(Total) | 0.042 (0.001) | NA | 0.006 (0.001) | 0.006 (0.001) |
| Chromium(Total) | 0.21 | NA | <0.010 | 0.010 |
| Copper(Total) | 0.10 | NA | 0.014 | 0.010 |
| Lead(Total) | 0.11 (0.015) | NA | 0.041 (0.015) | 0.028 (0.015) |
| Nickel(Total) | 0.17 | NA | <0.040 | <0.040 |
| Selenium(Total) | <0.025 | NA | <0.005 | <0.005 |
| Zinc(Total) | 0.65 | NA | 0.23 | 0.170 |
| Field Parameters (f) | | | | |
| Temperature (°C) | 30 | 18 | 21 | 21 |
| pH | 5.1 | 4.8 | 6.4 | 6.4 |
| Conductivity (umho) | 550 | 610 | 600 | 600 |
| Turbidity (NTU) | >200 | >200 | >200 | >200 |

**TABLE 9-GW
(Continued)**
**GROUNDWATER SAMPLES - OR SITE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA**

| Parameter | LOR MWOR62RX | LOR MWOR62RXD | LOR MWOR63 | LOR MWOR63D |
|------------------------------|-----------------|------------------|----------------------|----------------|
| Pesticide/PCBs (ug/l) | NA | NA | ND | ND |
| VOCs (ug/l) | | | | |
| Benzene | NA | NA | <0.5 | NA |
| Ethylbenzene | NA | NA | <0.5 | NA |
| Toluene | NA | NA | <0.5 | NA |
| m,p-Xylenes | NA | NA | <0.5 | NA |
| 1,4-Dichlorobenzene | NA | NA | <0.5 | NA |
| Methylethylketone | NA | NA | <1.0 | NA |
| Carbon Disulfide | NA | NA | <0.5 | NA |
| o-Xylene | NA | NA | <0.5 | NA |
| BNAs (ug/l) | | | | |
| Acenaphthene | <5.0 | <5.0 | <5.0 | <5.0 |
| bis (2-Ethylhexyl) Phthalate | <20 | <20 | <20 | <20 |
| Fluorene | <5.0 | <5.0 | <5.0 | <5.0 |
| Naphthalene | <5.0 | <5.0 | <5.0 | <5.0 |
| Phenanthrene | <5.0 | <5.0 | <5.0 | <5.0 |
| 2-Methylnaphthalene | <5.0 | <5.0 | <5.0 | <5.0 |
| Dibenzofuran | <5.0 | <5.0 | <5.0 | <5.0 |
| TFH-L (mg/l) | NA | NA | <0.05 | <0.05 |
| Metals (mg/l) | | | | |
| Arsenic(Total) | NA | NA | 0.006 | <0.005 |
| Barium(Total) | NA | NA | 0.12 | 0.11 |
| Beryllium(Total) | NA | NA | <0.005 | <0.005 |
| Chromium(Total) | NA | NA | <0.010 | <0.010 |
| Copper(Total) | NA | NA | 0.010 | <0.010 |
| Lead(Total) | NA | NA | 0.019 (0.015) | 0.010 |
| Nickel(Total) | NA | NA | <0.040 | <0.040 |
| Selenium | NA | NA | <0.005 | <0.005 |
| Zinc(Total) | NA | NA | 0.078(g) | 0.075(g) |
| Field Parameters (e) | | | | |
| Temperature (°C) | 17.7 | 17.7 | 20.5 | 20.5 |
| pH | 6.3 | 6.3 | 6.8 | 6.8 |
| Conductivity (umho) | 650 | 650 | 268 | 268 |
| Turbidity (NTU) | 0-5 (est) | 0-5 (est) | 177 | 177 |

- (a) RX - Resample
- (b) ND - None of the compounds analyzed were detected equal to, or in excess of, the detection limit.
- (c) NA - Not analyzed. Sample re-collected and analyzed for BNAs only.
- (d) Sample diluted, increasing detection limits.
- (e) NR - Not reported due to laboratory QC problems. BNA results reported in associated RX sample.
- (f) Field parameters were measured after purging and prior to sampling.
- (g) Indicates analyte was found in an associated blank.
- (h) RXD - Resample duplicate

10.0 Background Borings



Reformatory Road
Landfill
(RL Site)

LBBSB1613

FORT LEE
MILITARY RESERVATION

Inactive Fire
Training Area
(FT Site)

Open Detonation
Range
(DR Site)

Maintenance
Buildings
(MB Site)

Block 4100 Former
UST Locations
(UT Site)

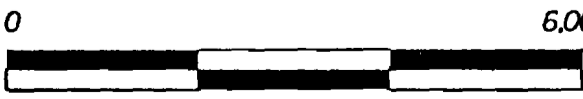
LBBSB1614

Sites 4, 5 & 6
Outdoor Recreation
Area
(OR Site)

MIF Training Area
(MF Site)

Landfill 10
(LF Site)

LBBSB1615



APPROXIMATE SCALE IN FEET

Preliminary Assessment/Site Investigation
Ft. Lee, Virginia

Background Boring Locations

James M. Montgomery
Consulting Engineers, Inc.



TABLE 10-SS

**SOIL SAMPLES - BACKGROUND BORINGS, FORT LEE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA**

| Parameter | LBB SB1613(0) Wet Weight (mg/kg) | LBB SB1613(0) Dry Weight(a) (mg/kg) | LBB SB1613(2) Wet Weight (mg/kg) | LBB SB1613(2) Dry Weight (mg/kg) | LBB SB1613(10) Wet Weight (mg/kg) | LBB SB1613(10) Dry Weight (mg/kg) | LBB SB1613(10)D Wet Weight (mg/kg) | LBB SB1613(10)D Dry Weight (mg/kg) |
|------------------|---|--|---|---|--|--|---|---|
| Pesticide/PCBs | ND | ND | ND | ND | ND | ND | ND | ND |
| VOCs | ND | ND | ND | ND | ND | ND | ND | ND |
| BNA _s | ND | ND | ND | ND | ND | ND | ND | ND |
| TFH-L | ND | ND | ND | ND | ND | ND | ND | ND |
| Metals | | | | | | | | |
| Arsenic(Total) | 10 | 10.9 | 24 | 28.2 | 15 | 18.1 | 18 | 21.7 |
| Barium(Total) | 26 | 28.3 | 34 | 40.0 | 14 | 16.9 | 12 | 14.5 |
| Chromium(Total) | 10 | 10.9 | 16 | 18.8 | 9.1 | 11.0 | 8.5 | 10.2 |
| Copper(Total) | 5.0 | 5.4 | 9.2 | 10.8 | 2.4 | 2.9 | 2.0 | 2.4 |
| Lead(Total) | 11 | 12.0 | 15 | 17.6 | 10 | 12.0 | <10 | <10 |
| Mercury(Total) | <0.02 | <0.02 | 0.05 | 0.059 | <0.02 | <0.02 | <0.02 | <0.02 |
| Nickel(Total) | 4.0 | 4.3 | 8.3 | 9.8 | <4.0 | <4.0 | <4.0 | <4.0 |
| Zinc(Total) | 19 | 20.7 | 30 | 35.3 | 12 | 14.5 | 7.1 | 8.6 |
| Total Solids (%) | 92 | 100 | 85 | 100 | 83 | 100 | 83 | 100 |

TABLE 10-SS
(Continued)

SOIL SAMPLES - BACKGROUND BORINGS, FORT LEE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LBB SB1614(0) Wet Weight (mg/kg) | LBB SB1614(0) Dry Weight (mg/kg) | LBB SB1614(0)D Wet Weight (mg/kg) | LBB SB1614(0)D Dry Weight (mg/kg) | LBB SB1614(4) Wet Weight (mg/kg) | LBB SB1614(4) Dry Weight (mg/kg) | LBB SB1614(10) Wet Weight (mg/kg) | LBB SB1614(10) Dry Weight (mg/kg) |
|------------------|---|---|--|--|---|---|--|--|
| Pesticide/PCBs | ND | ND | ND | ND | ND | ND | ND | ND |
| VOCs | ND | ND | ND | ND | ND | ND | ND | ND |
| BNAs | ND | ND | ND | ND | ND | ND | ND | ND |
| TFH-L | ND | ND | ND | ND | ND | ND | ND | ND |
| Metals | | | | | | | | |
| Arsenic(Total) | 10 | 11.1 | <10 | <10 | 18 | 21.7 | 15 | 18.3 |
| Barium(Total) | 50 | 55.6 | 36 | 39.1 | 37 | 44.6 | 15 | 18.3 |
| Chromium(Total) | 15 | 16.7 | 7.7 | 8.4 | 27 | 32.5 | 5.8 | 7.1 |
| Copper(Total) | 4.9 | 5.4 | 2.8 | 3.0 | 12 | 14.5 | 2.6 | 3.2 |
| Lead(Total) | 13 | 14.4 | 13 | 14.1 | 18 | 21.7 | <10 | <10 |
| Mercury(Total) | 3 | 3.4 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 | <0.02 |
| Nickel(Total) | <4.0 | <4.0 | <4.0 | <4.0 | 7.9 | 9.5 | <4.0 | <4.0 |
| Zinc(Total) | 14 | 15.6 | 12 | 13.0 | 35 | 42.2 | 9.5 | 11.6 |
| Total Solids (%) | 90 | 100 | 92 | 100 | 83 | 100 | 82 | 100 |

TABLE 10-SS
(Continued)

SOIL SAMPLES - BACKGROUND BORINGS, FORT LEE
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LBB SB1615 (0) Wet Weight (mg/kg) | LBB SB1615 (0) Dry Weight (mg/kg) | LBB SB1615 (4) Wet Weight (mg/kg) | LBB SB1615 (4) Dry Weight (mg/kg) | LBB SB1615 (8) Wet Weight (mg/kg) | LBB SB1615 (8) Dry Weight (mg/kg) |
|------------------|--|--|--|--|--|--|
| Pesticides/PCBs | ND | ND | ND | ND | ND | ND |
| VOCs | ND | ND | ND | ND | ND | ND |
| BNAs | ND | ND | ND | ND | ND | ND |
| TFH-L | ND | ND | ND | ND | ND | ND |
| Metals | | | | | | |
| Arsenic(Total) | <10 | <10 | 11 | 12.0 | <10 | <10 |
| Barium(Total) | 16.0 | 16.5 | 13 | 14.1 | <10 | <10 |
| Chromium(Total) | 2.2 | 2.3 | 14 | 15.2 | 7.0 | 7.6 |
| Copper(Total) | <1.0 | <1.0 | 3.6 | 3.9 | 1.1 | 1.2 |
| Lead(Total) | <10 | <10 | <10 | <10 | <10 | <10 |
| Mercury(Total) | <0.02 | <0.02 | 0.03 | 0.033 | <0.02 | <0.02 |
| Nickel(Total) | <4.0 | <4.0 | 6.0 | 6.5 | <4.0 | <4.0 |
| Zinc(Total) | 6.6 | 6.8 | 7.7 | 8.4 | 6.3 | 6.8 |
| Total Solids (%) | 97 | 100 | 92 | 100 | 92 | 100 |

- (a) Values have been converted to a dry weight basis in accordance with
Minimum Chemistry Data Reporting Requirements for DERP and Superfund HTW Projects (USACE,1989).
- (b) ND - None of the compounds analyzed were detected equal to, or in excess of, the detection limit.

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11.0 Field Water Sources - FW Site

TABLE 11 - FW
FIELD WATER SAMPLES
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Parameter | LFW BW1601 | LFW DW1602 |
|--------------------------|-----------------------|-----------------------|
| Pesticide/PCBs (µg/l) | ND(a) | ND |
| VOCs (µg/l) | ND | ND |
| BNAs (µg/l) | ND | ND |
| TFH-L (mg/l) | <0.05 | <0.05 |
| Metals (mg/l) | | |
| Lead (Total) | <0.002 | 0.003 |
| Zinc (Total) | 0.098 | 0.047 |
| Total Chlorine (mg/l)(b) | 0.12 | ND |

(a) ND - None of the compounds analyzed were detected equal to, or in excess of, the detection limit.

(b) Total Chlorine was measured using a Hach Field Test Kit.

BW - Base Water

DW - Deionized Water

12.0 Method Reporting Levels (MRLs)

TABLE 12-1
METHOD REPORTING LEVELS FOR VOCs BY
METHOD 8240
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Analyte | Water Matrix µg/L | Soil Matrix mg/kg |
|--|----------------------|----------------------|
| Acetone ^(a) | 10 | 0.25 |
| Acrolein | 1 | 0.025 |
| Acrylonitrile | 1 | 0.025 |
| Benzene | 0.5 | 0.01 |
| Bromoform | 0.5 | 0.01 |
| 2-Butanone (MEK) ^(a) | 1 | 0.025 |
| Carbon Disulfide ^(a) | 0.5 | 0.01 |
| Carbon Tetrachloride | 0.5 | 0.01 |
| Chlorobenzene | 0.5 | 0.01 |
| Chloroethane | 1 | 0.025 |
| 2-Chloroethylvinylether | 1 | 0.025 |
| Chloroform | 0.5 | 0.01 |
| Dibromochloromethane | 0.5 | 0.01 |
| 1,2-Dichlorobenzene | 0.5 | 0.01 |
| 1,3-Dichlorobenzene | 0.5 | 0.01 |
| 1,4-Dichloroethene | 0.5 | 0.01 |
| Dichlorobromomethane | 0.5 | 0.01 |
| 1,1-Dichloroethane | 0.5 | 0.01 |
| 1,2-Dichloroethane | 0.5 | 0.01 |
| 1,1-Dichloroethene | 0.5 | 0.01 |
| ← cis-1,2-Dichloroethene | 0.5 | 0.01 |
| trans-1,2-Dichloroethene | 0.5 | 0.01 |
| 1,2-Dichloropropane | 0.5 | 0.01 |
| cis-1,3-Dichloropropene | 0.5 | 0.01 |
| trans-1,3-Dichloropropene | 0.5 | 0.01 |
| Ethylbenzene | 0.5 | 0.01 |
| 2-Hexanone ^(a) | 1 | 0.025 |
| Methyl Bromide | 1 | 0.025 |
| Methyl Chloride | 1 | 0.025 |
| 4-Methyl-2-Pentanone (MIBK) ^(a) | 1 | 0.025 |
| Methylene Chloride | 5 | 0.1 |
| Styrene ^(a) | 0.5 | 0.01 |
| 1,1,2,2-Tetrachloroethane | 0.5 | 0.01 |
| Tetrachloroethene | 0.5 | 0.01 |
| Tetrahydrofuran ^(a) | 10 | 0.25 |
| Toluene | 0.5 | 0.01 |
| 1,1,1-Trichloroethane | 0.5 | 0.01 |
| 1,1,2-Trichloroethane | 0.5 | 0.01 |
| ← Trichloroethene | 0.5 | 0.01 |
| Trichlorofluoromethane | 1 | 0.025 |
| Vinyl Acetate ^(a) | 5 | 0.1 |
| Vinyl Chloride | 1 | 0.025 |
| m,p-Xylenes | 0.5 | 0.01 |
| o-Xylene ^(a) | 0.5 | 0.01 |

(a) = Quantification of Hazardous Waste Substance List compounds based on single point calibration.

TABLE 12-2
METHOD REPORTING LEVELS FOR
BNA EXTRACTABLE ORGANICS BY
METHOD 8270
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Analyte | Water Matrix μg/L | Soil Matrix mg/kg |
|-----------------------------|----------------------|----------------------|
| Acenaphthene | 5 | 1 |
| Acenaphthylene | 5 | 1 |
| Aniline | 5 | 1 |
| Anthracene | 5 | 1 |
| Benzidine | 50 | 10 |
| Benzo(a)anthracene | 5 | 1 |
| Benzo(a)pyrene | 5 | 1 |
| Benzo(b)fluoranthene | 5 | 1 |
| Benzo(g,h,i)perylene | 10 | 2 |
| Benzo(k)fluoranthene | 5 | 1 |
| Benzoic Acid | 50 | 10 |
| Benzyl Alcohol | 5 | 1 |
| bis(2-Chloroethoxy)methane | 10 | 2 |
| bis(2-Chloroisopropyl)ether | 10 | 2 |
| bis(2-Chloroethyl)ether | 10 | 2 |
| bis(2-Ethylhexyl)phthalate | 20 | 4 |
| 4-Bromophenylphenylether | 5 | 1 |
| Butylbenzylphthalate | 5 | 1 |
| 4-Chloroaniline | 5 | 1 |
| 2-Chloronaphthalene | 5 | 1 |
| 2-Chlorophenol | 5 | 1 |
| 4-Chlorophenylphenylether | 5 | 1 |
| Chrysene | 5 | 1 |
| Di-n-butylphthalate | 10 | 2 |
| Di-n-octylphthalate | 10 | 2 |
| Dibenzo(a,h)anthracene | 10 | 2 |
| Dibenzofuran | 5 | 1 |
| 1,2-Dichlorobenzene | 5 | 1 |
| 1,3-Dichlorobenzene | 5 | 1 |
| 1,4-Dichlorobenzene | 5 | 1 |
| 3,3-Dichlorobenzidine | 50 | 10 |
| 2,4-Dichlorophenol | 5 | 1 |
| Diethylphthalate | 5 | 1 |
| 2,4-Dimethylphenol | 5 | 1 |
| Dimethylphthalate | 5 | 1 |
| 4,6-Dinitro-o-cresol | 50 | 10 |
| 2,4-Dinitrophenol | 50 | 10 |
| 2,4-Dinitrotoluene | 5 | 1 |
| 2,6-Dinitrotoluene | 5 | 1 |
| Diphenylhydrazine | 10 | 2 |

TABLE 12-2
(continued)
METHOD REPORTING LEVELS FOR
BNA EXTRACTABLE ORGANICS ANALYZED BY
METHOD 8270
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Analyte | Water Matrix $\mu\text{g/L}$ | Soil Matrix mg/kg |
|---------------------------|---------------------------------|-------------------------------|
| Fluoranthene | 5 | 1 |
| Fluorene | 5 | 1 |
| Hexachlorobenzene | 5 | 1 |
| Hexachlorobutadiene | 10 | 2 |
| Hexachlorocyclopentadiene | 10 | 2 |
| Hexachloroethane | 5 | 1 |
| Indeno (1,2,3-c,d) pyrene | 10 | 2 |
| Isophorone | 5 | 1 |
| 2-Methylnaphthalene | 5 | 1 |
| 2-Methylphenol | 5 | 1 |
| 4-Methylphenol | 5 | 1 |
| N-Nitrosodi-N-propylamine | 5 | 1 |
| N-Nitrosodimethylamine | 5 | 1 |
| N-Nitrosodiphenylamine | 5 | 1 |
| Naphthalene | 5 | 1 |
| 2-Nitroaniline | 10 | 2 |
| 3-Nitroaniline | 20 | 4 |
| 4-Nitroaniline | 20 | 4 |
| Nitrobenzene | 5 | 1 |
| 2-Nitrophenol | 5 | 1 |
| 4-Nitrophenol | 10 | 2 |
| p-Chloro-m-cresol | 5 | 1 |
| Pentachlorophenol | 10 | 2 |
| Phenanthrene | 5 | 1 |
| Phenol | 5 | 1 |
| Pyrene | 5 | 1 |
| 1,2,4-Trichlorobenzene | 5 | 1 |
| 2,4,5-Trichlorophenol | 5 | 1 |
| 2,4,6-Trichlorophenol | 5 | 1 |

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TABLE 12-3
METHOD REPORTING LEVELS FOR
PESTICIDES/PCBS ANALYZED BY
METHOD 8080
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Analyte | Water Matrix μg/L | Soil Matrix mg/kg |
|-----------------------|------------------------------|------------------------------|
| Arochlor 1016 | 0.5 | 0.1 |
| Arochlor 1221 | 0.5 | 0.1 |
| Arochlor 1232 | 0.5 | 0.1 |
| Arochlor 1242 | 0.5 | 0.1 |
| Arochlor 1248 | 0.5 | 0.1 |
| Arochlor 1254 | 0.5 | 0.1 |
| Arochlor 1260 | 0.5 | 0.1 |
| BHC, alpha- | 0.02 | 0.02 |
| BHC, gamma- (Lindane) | 0.02 | 0.02 |
| BHC, beta- | 0.02 | 0.02 |
| BHC, delta- | 0.02 | 0.02 |
| Chlordane | 0.2 | 0.04 |
| DDD-p.p.- | 0.02 | 0.02 |
| DDE-p.p.- | 0.02 | 0.02 |
| DDT-p.p.- | 0.02 | 0.02 |
| Dieldrin | 0.02 | 0.02 |
| Endosulfan I (alpha) | 0.02 | 0.02 |
| Endosulfan II (beta) | 0.02 | 0.02 |
| Endosulfan sulfate | 0.02 | 0.02 |
| Endrin | 0.01 | 0.01 |
| Endrin Aldehyde | 0.02 | 0.02 |
| Endrin ketone | 0.02 | 0.02 |
| Heptachlor | 0.01 | 0.01 |
| Heptachlor Epoxide | 0.01 | 0.01 |
| Methoxychlor | 0.5 | 0.5 |
| Toxaphene | 0.5 | 0.5 |

TABLE 12-4
METHOD REPORTING LEVELS FOR
METALS
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA

| Method Technique | Analyte | Water Matrix µg/L | Soil Matrix mg/kg |
|----------------------|-----------|----------------------|----------------------|
| ICAP | | | |
| 6010 | Silver | 10 | 1.0 |
| 6010 | Arsenic | NA | 10 |
| 6010 | Barium | 100 | 10 |
| 6010 | Beryllium | 5 | 0.5 |
| 6010 | Cadmium | 5 | 0.5 |
| 6010 | Chromium | 10 | 1.0 |
| 6010 | Copper | 10 | 1.0 |
| 6010 | Lead | NA | 10 |
| 6010 | Nickel | 40 | 4.0 |
| 6010 | Antimony | 50 | 5.0 |
| 6010 | Selenium | NA | 5.0 |
| 6010 | Thallium | 100 | 10 |
| 6010 | Zinc | 20 | 2.0 |
| Cold Vapor AA | | | |
| 7470/7471 | Mercury | 0.2 | 0.02 |
| Furnace AA | | | |
| 7060 | Arsenic | 5 | NA |
| 7421 | Lead | 2 | NA |
| 7740 | Selenium | 5 | NA |

NA = Not Applicable

**TABLE 12-5
METHOD REPORTING LEVEL FOR
TOTAL FUEL HYDROCARBONS
PRELIMINARY ASSESSMENT/SITE INVESTIGATION
FORT LEE, VIRGINIA**

| Method Technique | Analyte | Water Matrix mg/l | Soil Matrix mg/kg |
|-------------------------|----------------|------------------------------|------------------------------|
| Modified 8015 | TFH-Light | 0.050 | 0.20 |
| Modified 8015 | TFH-Heavy | — | 10.0 |