

SECTION 3

# Descriptions of PA/SI Sites

The following sections discuss the site history, summarize previous investigations, and present future activities of the 1 IRP site and 4 MMRP sites that are in the PA/SI phase of the CERCLA process.

## 3.1 IRP PA/SI Sites

### 3.1.1 Site 37—Camp Geiger Area Surface Dump

Site 37, the Camp Geiger Area Surface Dump, encompasses approximately 4 acres in the Camp Geiger area of the Base (**Figure 3-1**). Between 1950 and 1951, Site 37 was used for the surface disposal of wastes including motor parts, garbage, and wood. In 2010, buried munitions were discovered in the vicinity and the area was identified as UXO-24 under the MMRP (Section 3.2.20).

FIGURE 3-1  
IRP Site 37



Previous investigations are listed in **Table 3-1**.

**TABLE 3-1**  
**Previous Investigations Summary, IRP Site 37**

| Previous Investigation/Action              | Date      | Activities   |
|--|-----------|--|
| IAS (WAR, 1983)                            | 1983      | The IAS was conducted to identify potential hazardous sites at MCIEAST-MCB CAMLEJ. No hazardous wastes were reportedly disposed of at Site 37, and no further assessment was recommended.  |
| Confirmatory Site Assessment (Osage, 2011) | 2009-2011 | To verify the presence or absence of contamination due to the site’s history as a dump, confirmatory sampling was conducted. Soil and groundwater samples were collected for volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), pesticides/polychlorinated biphenyls [PCBs], herbicides, and metals. Potential unacceptable risks to the environment were identified due to exposure to pesticides and herbicides in soil. Additional investigation was recommended. |

**3.1.1.1 Future Activities**

The Site 37 boundary is located within the MRP site UXO-24 boundary. The pesticides and herbicides identified in Site 37 soils during the Confirmatory Site Assessment will be addressed in the UXO-24 PA/SI. The UXO-24 PA/SI will be submitted in FY 2014 (**Schedule 3-1**).

**Schedule 3-1  
IRP Site 37  
FY 2013 Site Management Plan  
MCIEAST-MCB CAMLEJ**

| ID | Task Name                       | Duration        | Start              | Finish             | 2013 |     |     |     |     |     |     |     |     |     |     |     | 2014 |     |     |     |     |  |  |
|----|---------------------------------|-----------------|--------------------|--------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|--|--|
|    |                                 |                 |                    |                    | Oct  | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct  | Nov | Dec | Jan | Feb |  |  |
| 1  | <b>PA/SI for UXO-24/Site 37</b> | <b>370 days</b> | <b>Mon 10/1/12</b> | <b>Fri 2/28/14</b> |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |  |  |
| 2  | Update UFP-SAP                  | 60 days         | Mon 10/1/12        | Fri 12/21/12       |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |  |  |
| 3  | Review Period                   | 45 days         | Mon 12/24/12       | Fri 2/22/13        |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |  |  |
| 4  | Final UFP-SAP                   | 10 days         | Mon 2/25/13        | Fri 3/8/13         |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |  |  |
| 5  | Field Investigation             | 140 days        | Mon 3/11/13        | Fri 9/20/13        |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |  |  |
| 6  | Draft PA/SI Report              | 60 days         | Mon 9/23/13        | Fri 12/13/13       |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |  |  |
| 7  | Review Period                   | 45 days         | Mon 12/16/13       | Fri 2/14/14        |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |  |  |
| 8  | Final PA/SI Report              | 10 days         | Mon 2/17/14        | Fri 2/28/14        |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |  |  |

|          |  |                 |  |                    |  |
|----------|--|-----------------|--|--------------------|--|
| Task     |  | Milestone       |  | External Tasks     |  |
| Split    |  | Summary         |  | External Milestone |  |
| Progress |  | Project Summary |  | Deadline           |  |

## 3.2 MMRP PA/SI Sites

### 3.2.1 UXO-01—D-6 50-Foot Indoor Rifle and Pistol Range (ASR #2.64)

The D-6 50-Foot Indoor Rifle and Pistol Range consists of approximately 1 acre and is identified as a former .22 caliber indoor range, which included eight manually operated targets (**Figure 3-2**). The range has been in use since before 1954, but exact dates are not known. The building was demolished in 1998.

FIGURE 3-2  
MMRP Site UXO-01, ASR #2.64



Previous investigations are listed in **Table 3-2**.

TABLE 3-2  
Previous Investigations Summary, MMRP Site UXO-01, ASR #2.64

| Previous Investigation/Action | Date       | Activities   |
|-------------------------------|------------|--|
| PA/SI (Tetra Tech, 2009)      | 2009 -2010 | A field investigation was conducted to identify the presence or absence of contamination at the site. X-ray fluorescence (XRF) and confirmation soil sampling was conducted to identify potential metals contamination. Three drainage soil samples were collected for metals analysis, and four groundwater samples were collected for metals and perchlorate analysis. Lead concentrations were identified as potential risk to human and ecological receptors in soil and groundwater. A removal action to address the antimony, arsenic, and lead in soil was recommended. |

| Previous Investigation/Action                      | Date      | Activities   |
|--|-----------|--|
| EE/CA (Tetra Tech, 2010) and AM (Tetra Tech, 2011) | 2010-2011 | An EE/CA was prepared to identify removal action alternatives to address the antimony, arsenic, and lead in soil. Excavation and offsite disposal was the preferred alternative presented to the public in November 2010. The public comment period was held from November to December 2010 and no comments were received. The AM documented excavation and offsite disposal as the selected remedy.   |
| NTCRA (Osage)                                      | 2012      | An NTCRA was initiated to address antimony, arsenic, and lead in soil. Pre-excavation soil sampling was conducted and results indicated the lead concentrations would require that the soil be disposed of as hazardous waste. Therefore, soil within the excavation area will be treated in place to render non-hazardous and excavated to the delineated boundaries. Post-excavation samples from the base of the excavation will be conducted for antimony, arsenic, and lead until concentrations are less than the PRGs. Five monitoring wells will be installed to collect quarterly groundwater samples and monitor dissolved lead concentrations through 2013. |

### 3.2.1.1 Future Activities

A closeout report for UXO-01 will be planned following completion of the NTCRA in FY 2013 and quarterly groundwater sampling is planned through FY 2014 (**Schedule 3-2**).

**Schedule 3-2  
MMRP Site UXO-01 ASR# 2.64  
FY 2013 Site Management Plan  
MCIEAST-MCB CAMLEJ**

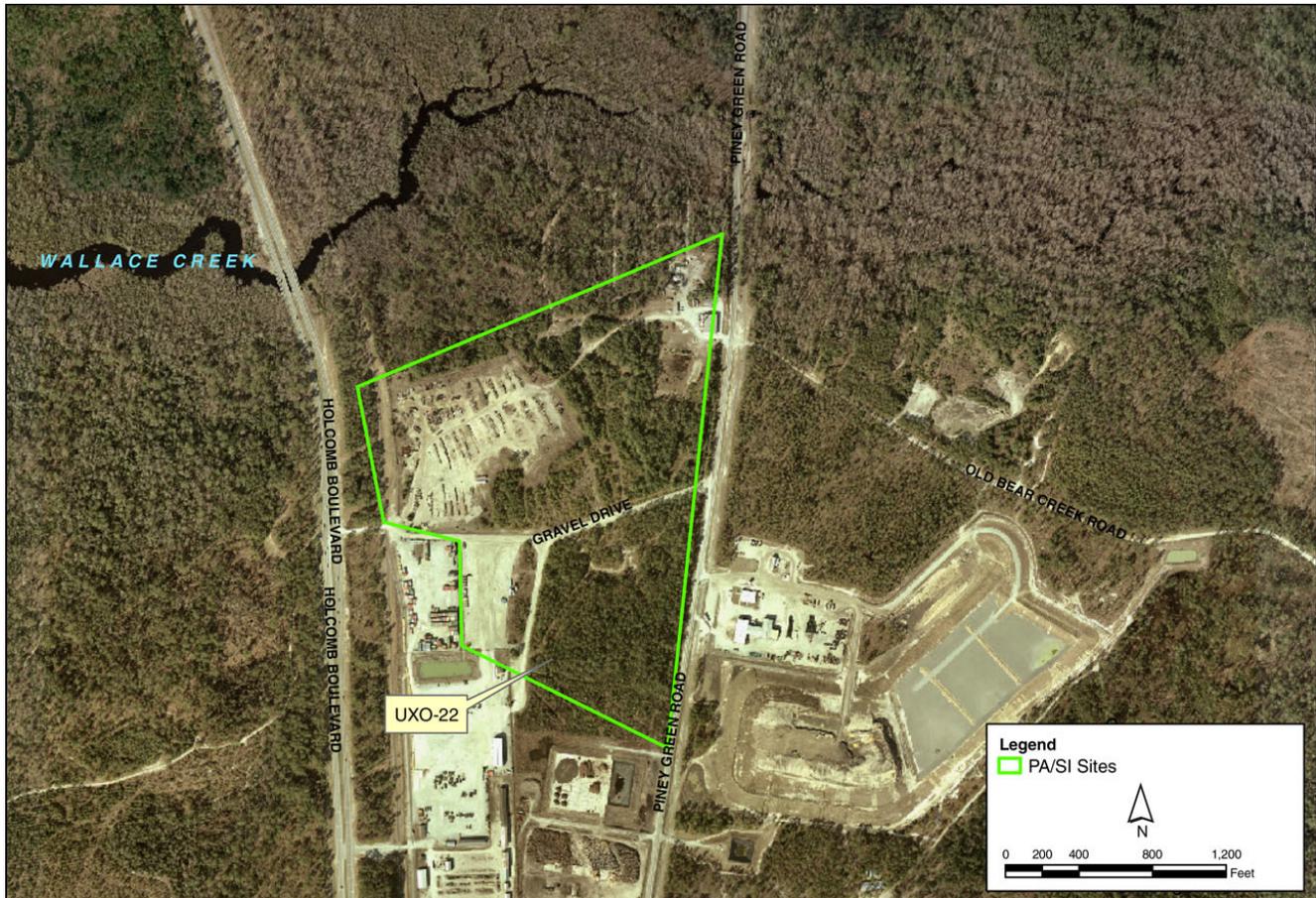
| ID | Task Name                | Duration        | Start             | Finish              | 2013 |     |     |     |     |     |     |     |     |     |     |     |
|----|--------------------------|-----------------|-------------------|---------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|    |                          |                 |                   |                     | Sep  | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug |
| 1  | <b>NTCRA</b>             | <b>343 days</b> | <b>Mon 9/3/12</b> | <b>Wed 12/25/13</b> |      |     |     |     |     |     |     |     |     |     |     |     |
| 2  | Draft NTCRA Report       | 80 days         | Mon 9/3/12        | Fri 12/21/12        |      |     |     |     |     |     |     |     |     |     |     |     |
| 3  | Review Period            | 30 days         | Mon 12/24/12      | Fri 2/1/13          |      |     |     |     |     |     |     |     |     |     |     |     |
| 4  | Final NTCRA Report       | 10 days         | Mon 2/4/13        | Fri 2/15/13         |      |     |     |     |     |     |     |     |     |     |     |     |
| 5  | Groundwater Monitoring   | 238 days        | Mon 9/3/12        | Wed 7/31/13         |      |     |     |     |     |     |     |     |     |     |     |     |
| 6  | Draft Groundwater Report | 30 days         | Thu 8/1/13        | Wed 9/11/13         |      |     |     |     |     |     |     |     |     |     |     |     |
| 7  | Review Period            | 45 days         | Thu 9/12/13       | Wed 11/13/13        |      |     |     |     |     |     |     |     |     |     |     |     |
| 8  | Final Groundwater Report | 30 days         | Thu 11/14/13      | Wed 12/25/13        |      |     |     |     |     |     |     |     |     |     |     |     |

|          |  |                 |  |                    |  |
|----------|--|-----------------|--|--------------------|--|
| Task     |  | Milestone       |  | External Tasks     |  |
| Split    |  | Summary         |  | External Milestone |  |
| Progress |  | Project Summary |  | Deadline           |  |

### 3.2.2 UXO-22—Sites 6 and 82 (OU 2)

UXO-22 covers approximately 75 acres located within OU 2, between Holcomb Boulevard and Piney Green Road, and includes portions of IRP Site 6 and IRP Site 82 (**Figure 3-3**). During supplemental investigation activities conducted from 2009 to 2010, material potentially presenting an explosive hazard (MPPEH) and munitions debris (MD) were identified at Sites 6 and 82. According to the RI for OU 2 (Baker, 1993), disposal trenches containing MPPEH (including expended 105-millimeter [mm] cartridges), communication wire, graphite battery packs, containers of petroleum, oil, and lubricant (POL), and metal 55-gallon drums were discovered and removed from OU 2. No former range activities are known to have occurred at the site.

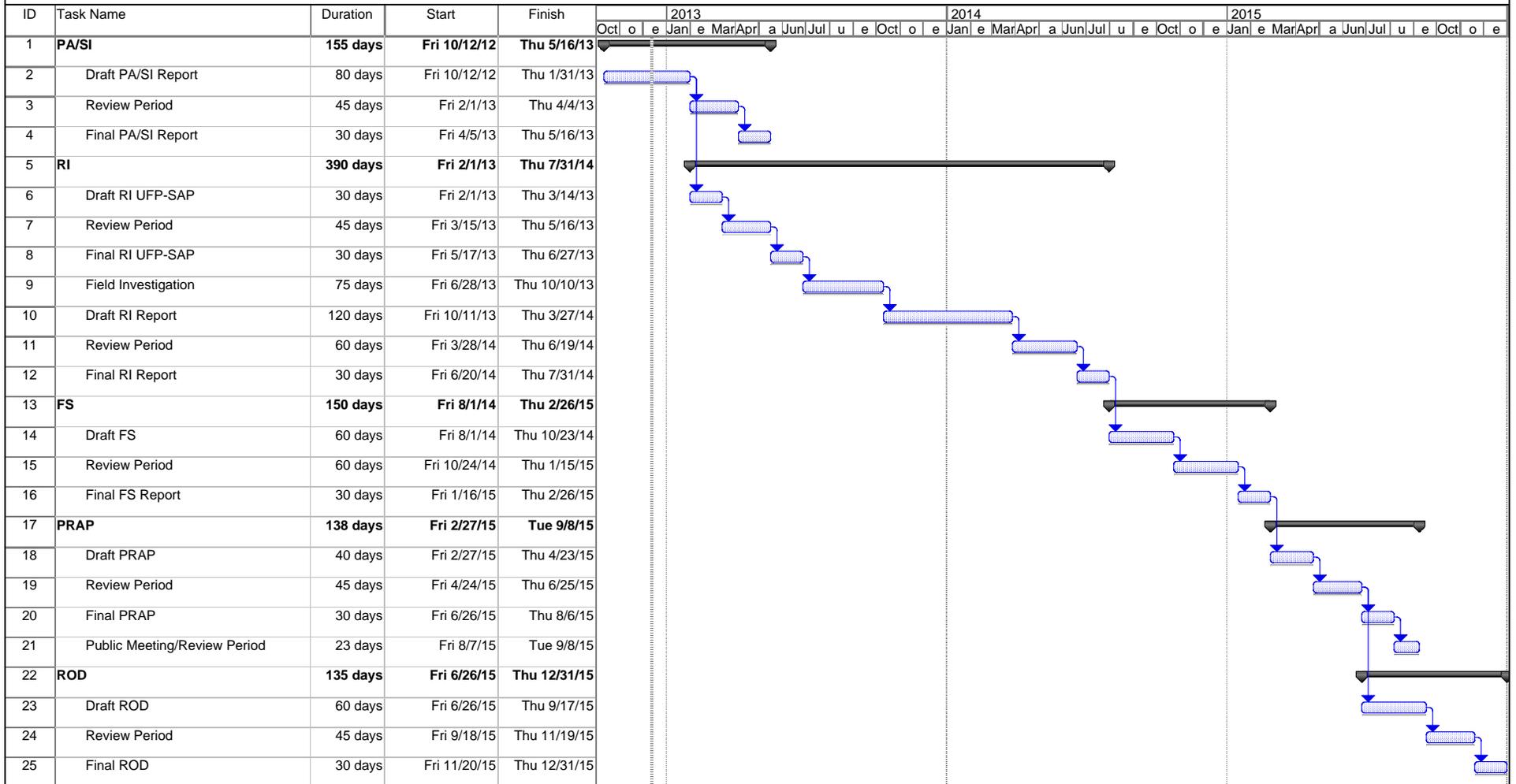
FIGURE 3-3  
MMRP Site UXO-22



#### 3.2.2.1 Future Activities

A PA/SI field investigation was conducted in FY 2012 to identify potential environmental impacts related to MC based on historical waste management practices. The PA/SI report is planned for submittal in FY 2013 and based on the presence of MEC an RI is planned in FY 2014 (**Schedule 3-3**).

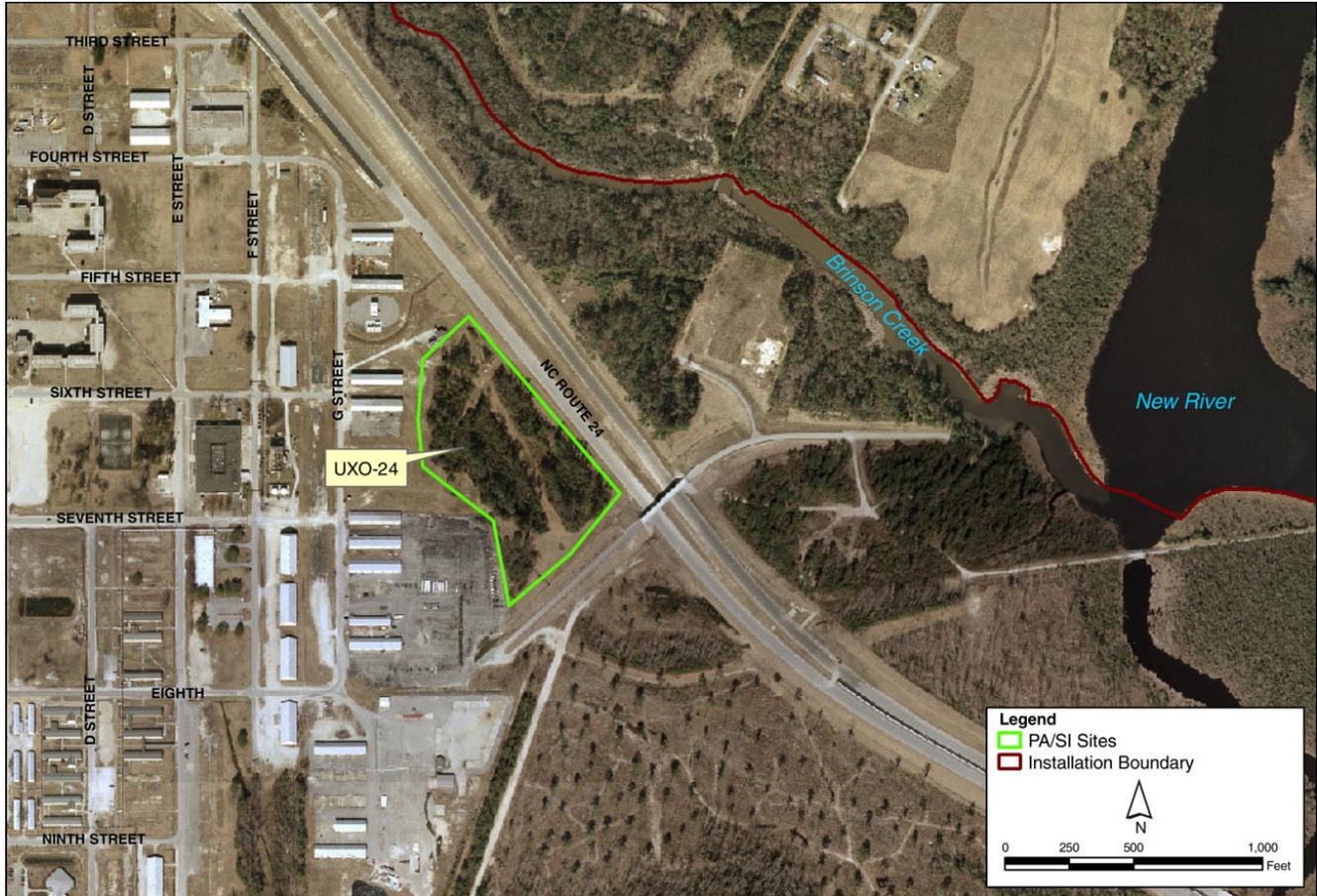
Schedule 3-3  
MMRP Site UXO-22  
FY 2013 Site Management Plan  
MCIEAST-MCB CAMLEJ



### 3.2.3 UXO-24—Camp Geiger Area

Site UXO-24 covers approximately 9 acres in the Camp Geiger area where buried munitions were discovered in 2010 (**Figure 3-4**).

FIGURE 3-4  
MMRP Site UXO-24



#### 3.2.3.1 Future Activities

A PA/SI field investigation was initiated in FY 2012 and is ongoing in FY 2013 to identify potential disposal areas followed by environmental sampling. The PA/SI is planned for completion in FY 2014 (**Schedule 3-4**).

**Schedule 3-4  
MMRP Site UXO-24  
FY 2013 Site Management Plan  
MCIEAST-MCB CAMLEJ**

| ID | Task Name                       | Duration        | Start              | Finish             | 2013 |     |     |     |     |     |     |     |     |     |     |     | 2014 |     |     |     |     |  |  |
|----|---------------------------------|-----------------|--------------------|--------------------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|-----|-----|-----|-----|--|--|
|    |                                 |                 |                    |                    | Oct  | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct  | Nov | Dec | Jan | Feb |  |  |
| 1  | <b>PA/SI for UXO-24/Site 37</b> | <b>370 days</b> | <b>Mon 10/1/12</b> | <b>Fri 2/28/14</b> |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |  |  |
| 2  | Update UFP-SAP                  | 60 days         | Mon 10/1/12        | Fri 12/21/12       |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |  |  |
| 3  | Review Period                   | 45 days         | Mon 12/24/12       | Fri 2/22/13        |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |  |  |
| 4  | Final UFP-SAP                   | 10 days         | Mon 2/25/13        | Fri 3/8/13         |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |  |  |
| 5  | Field Investigation             | 140 days        | Mon 3/11/13        | Fri 9/20/13        |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |  |  |
| 6  | Draft PA/SI Report              | 60 days         | Mon 9/23/13        | Fri 12/13/13       |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |  |  |
| 7  | Review Period                   | 45 days         | Mon 12/16/13       | Fri 2/14/14        |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |  |  |
| 8  | Final PA/SI Report              | 10 days         | Mon 2/17/14        | Fri 2/28/14        |      |     |     |     |     |     |     |     |     |     |     |     |      |     |     |     |     |  |  |

|          |  |                 |  |                    |  |
|----------|--|-----------------|--|--------------------|--|
| Task     |  | Milestone       |  | External Tasks     |  |
| Split    |  | Summary         |  | External Milestone |  |
| Progress |  | Project Summary |  | Deadline           |  |

### 3.2.4 UXO-25—Verona Loop

UXO-25 encompasses approximately 25 acres just south of MCAS New River (**Figure 3-5**) near the township of Verona, North Carolina. UXO-25 lies within portions of two former ranges, Impact Area “M” range and the M-16, Outdoor Classroom range. The Impact Area “M” range was in use as a live fire range with maneuver exercises with the use of mortars, recoilless rifles, 2.36-inch rockets, and hand and rifle grenades from 1941 to approximately 1945. Historical information indicates that 0.30-caliber blanks may have been used, along with pyrotechnics at the M-16, Outdoor Classroom range. This area is no longer used for the firing of live ammunition. UXO-25 is relatively flat and heavily vegetated with trees and dense undergrowth. The area within UXO-25 is undeveloped, with a small residential area and church located adjacent to the central portion of the site where it is bisected by Verona Loop Road.

#### 3.2.4.1 Future Activities

A PA/SI field investigation was conducted in FY 2012 and the report will be completed in FY 2013 (**Schedule 3-5**).

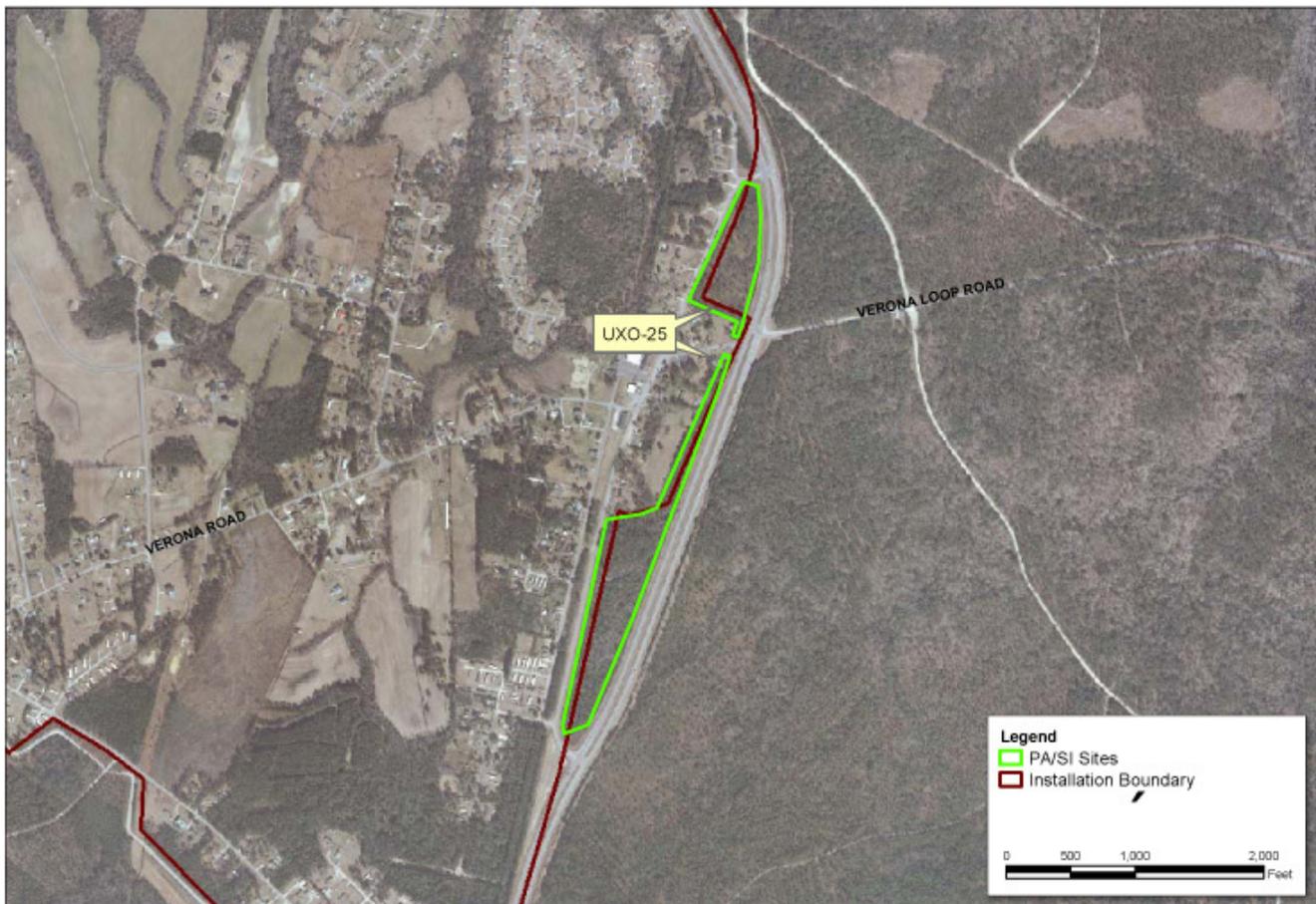


FIGURE 3-5  
MMRP Site UXO-25

**Schedule 3-5  
MMRP Site UXO-25  
FY 2013 Site Management Plan  
MCIEAST-MCB CAMLEJ**

| ID | Task Name          | Duration        | Start               | Finish             | 2013 |     |     |     |     |     |     |  |  |  |  |  |
|----|--------------------|-----------------|---------------------|--------------------|------|-----|-----|-----|-----|-----|-----|--|--|--|--|--|
|    |                    |                 |                     |                    | Oct  | Nov | Dec | Jan | Feb | Mar | Apr |  |  |  |  |  |
| 1  | <b>PA/SI</b>       | <b>135 days</b> | <b>Fri 10/12/12</b> | <b>Thu 4/18/13</b> |      |     |     |     |     |     |     |  |  |  |  |  |
| 2  | Draft PA/SI Report | 60 days         | Fri 10/12/12        | Thu 1/3/13         |      |     |     |     |     |     |     |  |  |  |  |  |
| 3  | Review Period      | 45 days         | Fri 1/4/13          | Thu 3/7/13         |      |     |     |     |     |     |     |  |  |  |  |  |
| 4  | Final PA/SI Report | 30 days         | Fri 3/8/13          | Thu 4/18/13        |      |     |     |     |     |     |     |  |  |  |  |  |

|          |  |                 |  |                    |  |
|----------|--|-----------------|--|--------------------|--|
| Task     |  | Milestone       |  | External Tasks     |  |
| Split    |  | Summary         |  | External Milestone |  |
| Progress |  | Project Summary |  | Deadline           |  |