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MCB CAMP LEJEUNE
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MUNITIONS RESPONSE SITE PRIORITIZATION PROTOCOL STAKEHOLDER FACT SHEET
MCB CAMP LEJEUNE NC
7/1/2012
NAVFAC MIDLANT

Munitions Response Site Prioritization Protocol

Stakeholder Fact Sheet



Background

For decades, the Department of Defense (DoD) has used military munitions in training and testing to ensure force readiness. Munitions remaining from DoD activities may present explosive, chemical agent, human health, and environmental hazards at active installations, Base Realignment and Closure (BRAC) installations, Formerly Used Defense Sites (FUDS), or other properties no longer under DoD control. Whenever a former range, storage area, or disposal site is put to another use, actions must be taken to ensure remediation of any hazards.

DoD has been responding to properties that were known or suspected to contain munitions hazards for over 30 years. In 2001, the Department established the Military Munitions Response Program (MMRP) to address the hazards posed by past military munitions-related activities. As of September 2006, DoD had identified over 3,300 sites eligible for the MMRP, referred to as munitions response sites (MRSs), that may require response actions (e.g., investigation, removal actions, and remedial actions). To efficiently and effectively expedite response actions at all MRSs, the Department must prioritize these sites based on the potential risk posed to human health and the environment.

Munitions Response Sites (MRSs) as of FY2006

1,333 on active installations	318 on BRAC installations	1,658 on FUDS properties
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The Protocol

In the FY2002 National Defense Authorization Act (10 USC 2710), Congress directed DoD to develop a protocol for assigning MRSs a relative priority for response activities. DoD convened a workgroup with personnel knowledgeable in explosive safety and environmental responses to develop the framework for prioritizing MRSs. This workgroup engaged in a collaborative process with the States, American Indian and Alaska Native Tribes, and federal agencies to develop a methodology to assign a relative priority for response activities at each MRS in DoD's inventory (the MRS inventory).

On October 5, 2005, DoD published the Munitions Response Site Prioritization Protocol (referred to as the Protocol) as a Federal Rule, codified at 32 CFR 179. The Protocol requires the DoD Components to apply the prioritization methodology to determine a relative priority for munitions response actions at MRSs. The priority assigned is based on the overall conditions at each MRS.

Web Site

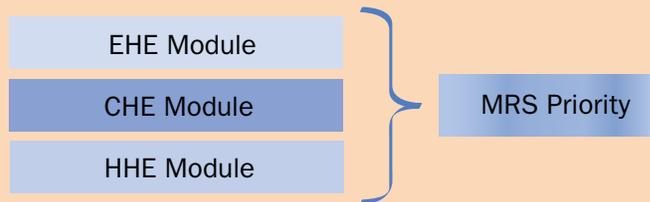


The MRS inventory is updated annually and published in the Defense Environmental Programs Annual Report to Congress:

<http://deparc.egovservices.net/deparc/do/mmrp>

The potential risk posed by past munitions activities at each MRS is determined through the Protocol's central feature, three hazard evaluation modules:

- Explosive Hazard Evaluation (EHE) Module: provides the approach for assigning a relative priority to an MRS where munitions and explosives of concern (MEC) are known or suspected to be present.
- Chemical Warfare Material Hazard Evaluation (CHE) Module: provides the approach for assigning a relative priority to an MRS where CWM hazards are known or suspected to be present.
- Health Hazard Evaluation (HHE) Module: provides the approach for evaluating the relative risk to human health and the environment where munitions constituents and any incidental nonmunitions-related contaminants are known or suspected to be present.



An MRS's relative priority is determined by comparing the results of one or more hazard evaluation modules.

Sequencing Decisions

After an MRS is prioritized, it must be sequenced for response action. The sequencing for response action is based primarily on the MRS's relative risk, reflected in its priority. As a matter of DoD policy, an MRS with higher relative risks will be addressed before an MRS with lower relative risks. Occasionally, other factors, such as environmental justice, economic development, and programmatic concerns can influence sequencing decisions.

Stakeholder Involvement

For the purposes of the Protocol, stakeholders include, but may not be limited to, federal agencies, state and local regulatory agencies, tribal governments, community members, and current landowners involved in the Protocol's application. DoD offers all stakeholders opportunities to participate throughout the Protocol's application. DoD believes that if stakeholders are engaged early and often throughout the process, they will gain a better understanding of the Protocol and its application. DoD Components are required to notify stakeholders of the opportunity to participate in the application of the Protocol; publish an announcement requesting participation; consider stakeholders' input in prioritization and sequencing decisions; and document stakeholder input. DoD recognizes that stakeholder involvement is an effective way to identify and address stakeholder concerns about environmental and safety issues related to MRSs.

Once an MRS's relative priority is determined, DoD Components will provide stakeholders with the opportunity to review and comment on how an MRS is sequenced for response actions. DoD believes that a proactive stakeholder involvement program will facilitate the munitions response process and help ensure the protection of human health and the environment.



Web Site

For more information on the MMRP or the Protocol please visit:

<https://www.denix.osd.mil/denix/Public/Library/Cleanup/CleanupOfc/derp/mmrp.html>

Marine Corps Installations East-Marine Corps Base Camp Lejeune Munitions Response Site Prioritization Summary June 2012

Site Priority
Priority 1
Priority 2
Priority 3
Priority 4
Priority 5
Priority 6
Priority 7
Priority 8
Evaluation Pending
Prioritization Not Required

- Priority scores range from 1 to 8:
 - 1 is the highest hazard level
 - 8 is the highest hazard level
- Available information was used to initially score these sites
 - Scores will be updated as additional data become available
- 5 Munitions Response Sites scored in June 2012
 - UXO-22, 23, 24, 25, and 26
 - Priority 3
 - UXO-23, UXO-26
 - Priority 4
 - UXO-22, UXO-24, UXO-25

QA Panel Report

6/13/2012

Site Name: UXO 000022 - MUNITIONS DISPOSAL AREA

Site POC: CLELAND DAVID

Site Location: CAMP LEJEUNE NC MCB

Stakeholder Participation: No

Cognizant FEC: MIDLANT

Regulatory Participation: No

Last QA Date:

Last QA MRS Priority:

Site Description:

MRP Site UXO 22 – MUNITIONS DISPOSAL AREA. The 75 acre site is located in the Wallace Creek area between Holcomb Blvd and Piney Green road. This includes OU 2 (IR sites 6 and 82), portions of storage Lots 201 and 203, and a wooded area between the storage lots. During recent supplemental investigation activities for at OU 2 conducted from 2009 to 2010, MPPEH and MD were identified at IR Sites 6 and 82. According to the RI for OU 2 (Baker, 1993), disposal trenches containing MPPEH (including expended 105 mm cartridges), communication wire, graphite battery packs, containers of petroleum, oil, and lubricants, and metal 55-gallon drums were discovered and removed from OU 2. No former range activities are known to have occurred at the site. A PA/SI was conducted in FY2011-FY2012. An RI is planned in FY2012-FY2013.

Factors Affecting the Change in MRS Priority:

Site previously had an Evaluation Pending priority

Reason for Addressing the MRSP Site out of Sequence:

Not Out of Sequence

Summary

Overall MRS Priority: 4	MRS Priority Source: EHE	
EHE Priority: 4	EHE Rating: C	EHE Score: 78
CHE Priority: NH	CHE Rating:	CHE Score:
HHE Priority: EP	HHE Rating:	HHE Priority Source:

EHE Priority:4 EHE Score: 78 EHE Rating: C

Explosive Hazard Factor Data Elements

Table 1

EHE Module: Munitions Type Data Element Table

Classification	Score
<i>Sensitive;</i>	30
<i>High explosive (used or damaged);</i>	25
<i>Pyrotechnic (used or damaged);</i>	20
<i>Propellant;</i>	15
<i>Practice;</i>	5
<i>Small arms;</i>	2
Munitions Type	30

Description:

MEC/MPPEH found:

- M-29 rockets, practice warhead only
- M-29 rocket motors, 3.5-inch, expended
- Stabilizer assemblies. M9 AT, rifle grenades
- MK21 grenades, practice, empty
- 3.5-inch warheads for rockets, model unknown
- 3.5-inch rocket fuzes, model unknown

- 3.5-inch rockets believed to be M29 practice
- 3.5-inch rocket fuzes believed to be practice
- MK21 practice hand grenades
- M45 mortar fuze, expended
- M50A2 60mm mortars, 60mm, practice
- M43 81mm mortar shell, high explosive
- M49 60mm mortar shell, high explosive
- 3.5-inch M28 HEAT Rocket
- M48 trip flares (empty), practice
- full and partial 105mm shipping containers
- 105mm cartridge (empty)
- 75mm Recoilless Rifle cartridge (empty)
- Propellant canister
- MKII Hand Grenade

Table 2
EHE Module: Source of Hazard Data Element Table

Classification	Score
<i>Former burial pit or other disposal area;</i>	5
Source of Hazard	5

Description:

Former disposal pits

Accessibility Factor Data Elements

Table 3
EHE Module: Location of Munitions Data Element Table

Classification	Score
<i>Confirmed subsurface, active;</i>	20
Location of Munitions	20

Description:

MEC/MPPEH found in subsurface during investigation activities.

Table 4
EHE Module: Ease of Access Data Element Table

Classification	Score
<i>Barrier to MRS access is incomplete;</i>	8
Ease of Access	8

Description:

Base is fenced but site is accessible within the Base boundary.

Table 5
EHE Module: Status of Property Data Element Table

Classification	Score
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<i>DoD control;</i>	0
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Status of Property	0
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Description:

Base is fenced but site is accessible within the Base boundary.

Receptor Factor Data Elements

Table 6
EHE Module: Population Density Data Element Table

Classification	Score
<i>> 500 persons per square mile;</i>	5
Population Density	5

Description:

The Base has an active duty, dependent, retiree, and civilian employee population of approximately 150,000 people. The density of the surrounding population is 196 persons per square mile within a 2-mile radius of the MRS boundary. Based on the 2008 census, the population of the City of Jacksonville is over 65,000 and Onslow County is over 165,000.

Table 7
EHE Module: Population Near Hazard Data Element Table

Classification	Score
<i>26 or more inhabited structures;</i>	5
Population Near Hazard	5

Description:

Approximately 2,287 structures are located within a 2 mile radius of the MRS boundary, with 2,046 appearing to be inhabited structures.

Table 8
EHE Module: Types of Activities/Structures Data Element Table

Classification	Score
<i>Residential, educational, commercial, or subsistence;</i>	5
<i>Parks and recreational areas;</i>	4
<i>Industrial or warehousing;</i>	2
Types of Activities/Structures	5

Description:

Administration, landfill buildings, truck scales, warehouses, job trailers, motor pools and classrooms for Base personnel.

Table 9
EHE Module: Ecological and/or Cultural Resources Data Element Table

Classification	Score
<i>No known or recurring activities;</i>	0

Ecological and/or Cultural Resources	0
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Description:

N/A

CHE Priority: NH	CHE Score:	CHE Rating:
CWM Hazard Factor Data Elements		

<i>Table 11</i>
<i>CHE Module: CWM Configuration Data Element Table</i>

Classification	Score
<i>Evidence of no CWM;</i>	0
CWM Configuration	0

Description:

N/A

<i>Table 12</i>
<i>CHE Module: Sources of CWM Data Element Table</i>

Classification	Score
<i>Evidence of no CWM;</i>	0
CWM Configuration	0

Description:

N/A

Accessibility Factor Data Elements

<i>Table 13</i>
<i>CHE Module: Location of CWM Data Element Table</i>

Classification	Score
<i>Evidence of no CWM;</i>	0
Location of CWM	0

Description:

N/A

<i>Table 14</i>
<i>CHE Module: Ease of Access Data Element Table</i>

Classification	Score
<i>Barrier to MRS access is incomplete;</i>	8
Ease of Access	8

Description:

Base is fenced but site is accessible within the Base boundary.

Table 15
CHE Module: Status of Property Data Element Table

Classification	Score
<i>DoD control;</i>	0
Status of Property	0

Description:

Base is fenced but site is accessible within the Base boundary.

Receptor Factor Data Elements

Table 16
CHE Module: Population Density Data Element Table

Classification	Score
<i>> 500 persons per square mile;</i>	5
Population Density	5

Description:

The Base has an active duty, dependent, retiree, and civilian employee population of approximately 150,000 people. The density of the surrounding population is 196 persons per square mile within a 2-mile radius of the MRS boundary. Based on the 2008 census, the population of the City of Jacksonville is over 65,000 and Onslow County is over 165,000.

Table 17
CHE Module: Population Near Hazard Data Element Table

Classification	Score
<i>26 or more inhabited structures;</i>	5
Population Near Hazard	5

Description:

Approximately 2,287 structures are located within a 2 mile radius of the MRS boundary, with 2,046 appearing to be inhabited structures.

Table 18
CHE Module: Types of Activities/Structures Data Element Table

Classification	Score
<i>Residential, educational, commercial, or subsistence;</i>	5
<i>Parks and recreational areas;</i>	4
<i>Industrial or warehousing;</i>	2
Types of Activities/Structure	5

Description:

Administration, landfill buildings, truck scales, warehouses, job trailers, motor pools and classrooms for Base personnel.

Table 19
CHE Module: Ecological and/or Cultural Resources Data Element Table

Classification	Score
No known or recurring activities;	0
Ecological and/or Cultural Resources	0

Description:

N/A

HHE Priority: EP HHE Rating: HHE Source:

Health Hazard Priority: EP

Receptor Description: Evaluation pending. Environmental media sampling and risk screenings were conducted during PA/SI, metals detected, and risk assessments ongoing.

Pathway Description: Evaluation pending. Environmental media sampling and risk screenings were conducted during PA/SI, metals detected, and risk assessments ongoing.

Groundwater

CHF: N/A

MPF:

RF:

Combination: N/A

Rating: N/A

Priority: N/A

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A

Surface Water Human

CHF: N/A

MPF:

RF:

Combination: N/A

Rating: N/A

Priority: N/A

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A

Sediment Human

CHF: N/A

MPF:

RF:

Combination: N/A

Rating: N/A

Priority: N/A

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A

Surface Water Eco

CHF: N/A

MPF:

RF:

Combination: N/A

Rating: N/A

Priority: N/A

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A

Sediment Eco

CHF: N/A

MPF:

RF:

Combination: N/A

Rating: N/A

Priority: N/A

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A

Soil

CHF: N/A

MPF:

RF:

Combination: N/A

Rating: N/A

Priority: N/A

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A

QA Panel Report

6/13/2012

Site Name: UXO 000023 - D-2 SKEET RANGE

Site POC: CLELAND DAVID

Site Location: CAMP LEJEUNE NC MCB

Stakeholder Participation: No

Cognizant FEC: MIDLANT

Regulatory Participation: Yes

Last QA Date:

Last QA MRS Priority:

Site Description:

The D-9 Skeet Range covers 187-acres, began operation in 1953, was used for recreational shooting, and historically accommodated include 12-, 16-, 20-, 28-, and 410-gauge shotguns. The types of sporting clays used included White Flyer and, within the last five years, biodegradable targets. Prior to the D-9 Skeet Range officially closing and becoming UXO-23 in July 2011, MCB CamLej funded several investigations from 2007 through 2010 in support of MILCON projects planned for the Wallace Creek area. Based on investigations conducted 2007-2010, a NTCRA is underway for the shot fall-zone of the D-9 Skeet Range. An Expanded SI is required to further evaluate areas within UXO-23 that are beyond MILCON boundaries. ESI was awarded 29 Feb 2012.

Factors Affecting the Change in MRS Priority:

Site previously had an Evaluation Pending priority

Reason for Addressing the MRSP Site out of Sequence:

Not Out of Sequence

Summary

Overall MRS Priority: 3	MRS Priority Source: HHE	
EHE Priority: 8	EHE Rating: G	EHE Score: 30
CHE Priority: NH	CHE Rating:	CHE Score:
HHE Priority: 3	HHE Rating: B	HHE Priority Source: SOIL

EHE Priority:8 EHE Score: 30 EHE Rating: G

Explosive Hazard Factor Data Elements

Table 1

EHE Module: Munitions Type Data Element Table

Classification	Score
<i>Small arms;</i>	2
Munitions Type	2

Description:

N/A

Table 2

EHE Module: Source of Hazard Data Element Table

Classification	Score
<i>Former Small arms;</i>	1
Source of Hazard	1

Description:

N/A

Accessibility Factor Data Elements

Table 3
EHE Module: Location of Munitions Data Element Table

Classification	Score
<i>Small arms (regardless of location);</i>	1
Location of Munitions	1

Description:

N/A

Table 4
EHE Module: Ease of Access Data Element Table

Classification	Score
<i>Barrier to MRS access is incomplete;</i>	8
Ease of Access	8

Description:

Base is fenced but site is accessible within the Base boundary.

Table 5
EHE Module: Status of Property Data Element Table

Classification	Score
<i>DoD control;</i>	0
Status of Property	0

Description:

Base is fenced but site is accessible within the Base boundary.

Receptor Factor Data Elements

Table 6
EHE Module: Population Density Data Element Table

Classification	Score
<i>> 500 persons per square mile;</i>	5
Population Density	5

Description:

The Base has an active duty, dependent, retiree, and civilian employee population of approximately 150,000 people. The density of the surrounding population is 196 persons per square mile within a 2-mile radius of the MRS boundary. Based on the 2008 census, the population of the City of Jacksonville is over 65,000 and Onslow County is over 165,000.

Table 7
EHE Module: Population Near Hazard Data Element Table

Classification	Score
<i>26 or more inhabited structures;</i>	5
Population Near Hazard	5

Description:

No inhabited structures located within the MRS boundary. At least 26 inhabited structures are located within 2 miles of the MRS.

Table 8
EHE Module: Types of Activities/Structures Data Element Table

Classification	Score
<i>Residential, educational, commercial, or subsistence;</i>	5
<i>Parks and recreational areas;</i>	4
<i>Agricultural, forestry;</i>	3
<i>Industrial or warehousing;</i>	2
Types of Activities/Structures	5

Description:

Residential, industrial, commercial, forestry, hospital.

Table 9
EHE Module: Ecological and/or Cultural Resources Data Element Table

Classification	Score
<i>Ecological resources present;</i>	3
Ecological and/or Cultural Resources	3

Description:

Jurisdictional wetlands present, kildeer found on-site (ESA)

CHE Priority: NH CHE Score: CHE Rating:

CWM Hazard Factor Data Elements

Table 11
CHE Module: CWM Configuration Data Element Table

Classification	Score
<i>Evidence of no CWM;</i>	0
CWM Configuration	0

Description:

N/A

Table 12

CHE Module: Sources of CWM Data Element Table

Classification	Score
Evidence of no CWM;	0
CWM Configuration	0

Description:

N/A

Accessibility Factor Data Elements

Table 13
CHE Module: Location of CWM Data Element Table

Classification	Score
Evidence of no CWM;	0
Location of CWM	0

Description:

N/A

Table 14
CHE Module: Ease of Access Data Element Table

Classification	Score
Barrier to MRS access is incomplete;	8
Ease of Access	8

Description:

Base is fenced but site is accessible within the Base boundary.

Table 15
CHE Module: Status of Property Data Element Table

Classification	Score
DoD control;	0
Status of Property	0

Description:

Base is fenced but site is accessible within the Base boundary.

Receptor Factor Data Elements

Table 16
CHE Module: Population Density Data Element Table

Classification	Score
> 500 persons per square mile;	5

Population Density **5**

Description:

The Base has an active duty, dependent, retiree, and civilian employee population of approximately 150,000 people. The density of the surrounding population is 196 persons per square mile within a 2-mile radius of the MRS boundary. Based on the 2008 census, the population of the City of Jacksonville is over 65,000 and Onslow County is over 165,000.

Table 17
CHE Module: Population Near Hazard Data Element Table

Classification	Score
<i>26 or more inhabited structures;</i>	5
Population Near Hazard	5

Description:

No inhabited structures located within the MRS boundary. At least 26 inhabited structures are located within 2 miles of the MRS.

Table 18
CHE Module: Types of Activities/Structures Data Element Table

Classification	Score
<i>Residential, educational, commercial, or subsistence;</i>	5
<i>Parks and recreational areas;</i>	4
<i>Agricultural, forestry;</i>	3
<i>Industrial or warehousing;</i>	2
Types of Activities/Structure	5

Description:

Residential, industrial, commercial, forestry, hospital.

Table 19
CHE Module: Ecological and/or Cultural Resources Data Element Table

Classification	Score
<i>Ecological resources present;</i>	3
Ecological and/or Cultural Resources	3

Description:

Jurisdictional wetlands present, kildeer found on-site (ESA)

HHE Priority: 3 HHE Rating: B HHE Source: SOIL

Health Hazard Priority: 3
Receptor Description: N/A
Pathway Description: N/A

Groundwater

CHF:	70.130435	MPF:	H	RF:	L
Combination:	HML	Rating:	D	Priority:	5

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A

Surface Water Human

CHF:	N/A	MPF:		RF:	
Combination:	N/A	Rating:	N/A	Priority:	N/A

Migration Pathway Factor Desc:

no unacceptable risk

Receptor Factor Desc:

N/A

Sediment Human

CHF:	0.241750	MPF:	H	RF:	H
Combination:	HHL	Rating:	C	Priority:	4

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A

Surface Water Eco

CHF:	N/A	MPF:		RF:	
Combination:	N/A	Rating:	N/A	Priority:	N/A

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A

Sediment Eco

CHF:	N/A	MPF:		RF:	
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Combination: N/A **Rating:** N/A **Priority:** N/A

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A

Soil

CHF: 8.250000 **MPF:** H **RF:** H
Combination: HHM **Rating:** B **Priority:** 3

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A

QA Panel Report

6/13/2012

Site Name: UXO 000024 - CAMP GEIGER
BURIAL AREA

Site POC: CLELAND DAVID

Site Location: CAMP LEJEUNE NC MCB

Stakeholder Participation: No

Cognizant FEC: MIDLANT

Regulatory Participation: No

Last QA Date:

Last QA MRS Priority:

Site Description:

Approximately 9-acre area at Camp Geiger where buried munitions were discovered. In 2010, the base discovered that discarded military munitions (DMM) had been buried at the site east of building TC-611. A limited visual site inspection conducted by base Explosive Ordnance Disposal (EOD) personnel found additional DMM and material potentially presenting and explosive hazard (MPPEH) in the area surveyed. A PA/SI is currently being conducted and report planned for September 2012.

Factors Affecting the Change in MRS Priority:

Site previously had an Evaluation Pending priority

Reason for Addressing the MRSP Site out of Sequence:

Not Out of Sequence

Summary

Overall MRS Priority: 4	MRS Priority Source: EHE	
EHE Priority: 4	EHE Rating: C	EHE Score: 73
CHE Priority: NH	CHE Rating:	CHE Score:
HHE Priority: EP	HHE Rating:	HHE Priority Source:

EHE Priority:4 EHE Score: 73 EHE Rating: C

Explosive Hazard Factor Data Elements

Table 1

EHE Module: Munitions Type Data Element Table

Classification	Score
<i>Pyrotechnic (used or damaged);</i>	20
<i>Practice;</i>	5
<i>Small arms;</i>	2
Munitions Type	20

Description:

- Grenade, Hand: Smoke, M18, expended
- Signal, Illumination, Ground: Cluster, Red Star, M158, unexpended
- Cartridge, 40-MM, Practice, M781, unexpended
- (2,207) 5.56 millimeter (mm) blank rounds
- (33) 9 mm AA12 rounds
- (5) 9 mm AA21 rounds
- (22) 5.56 mm tracer rounds
- (79) 5.56 mm ball rounds
- (3) 7.62 mm ball rounds
- (16) 7.62 mm blank rounds
- 25 mm casing
- AK74 blank rounds (quantity unspecified)

Table 2
EHE Module: Source of Hazard Data Element Table

Classification	Score
<i>Former burial pit or other disposal area;</i>	5
Source of Hazard	5

Description:

N/A

Accessibility Factor Data Elements

Table 3
EHE Module: Location of Munitions Data Element Table

Classification	Score
<i>Confirmed surface;</i>	25
<i>Confirmed subsurface, stable;</i>	15
Location of Munitions	25

Description:

DMM found in subsurface. Small arms found on ground surface.

Table 4
EHE Module: Ease of Access Data Element Table

Classification	Score
<i>Barrier to MRS access is incomplete;</i>	8
Ease of Access	8

Description:

Base is fenced but site is accessible within the Base boundary.

Table 5
EHE Module: Status of Property Data Element Table

Classification	Score
<i>DoD control;</i>	0
Status of Property	0

Description:

Base is fenced but site is accessible within the Base boundary.

Receptor Factor Data Elements

Table 6
EHE Module: Population Density Data Element Table

Classification	Score
----------------	-------

> 500 persons per square mile; 5

Population Density **5**

Description:

The Base has an active duty, dependent, retiree, and civilian employee population of approximately 150,000 people. The density of the surrounding population is 196 persons per square mile within a 2-mile radius of the MRS boundary. Based on the 2008 census, the population of the City of Jacksonville is over 65,000 and Onslow County is over 165,000.

Table 7
EHE Module: Population Near Hazard Data Element Table

Classification	Score
26 or more inhabited structures;	5
Population Near Hazard	5

Description:

No inhabited structures located within the MRS boundary. At least 26 inhabited structures are located within 2 miles of the MRS.

Table 8
EHE Module: Types of Activities/Structures Data Element Table

Classification	Score
Residential, educational, commercial, or subsistence;	5
Parks and recreational areas;	4
Industrial or warehousing;	2
Types of Activities/Structures	5

Description:

Administration, training, residential barracks, industrial, warehouses, maintenance.

Table 9
EHE Module: Ecological and/or Cultural Resources Data Element Table

Classification	Score
No known or recurring activities;	0
Ecological and/or Cultural Resources	0

Description:

N/A

CHE Priority: NH CHE Score: CHE Rating:

CWM Hazard Factor Data Elements

Table 11
CHE Module: CWM Configuration Data Element Table

Classification	Score
----------------	-------

<i>Evidence of no CWM;</i>	0
CWM Configuration	0

Description:

N/A

Table 12
CHE Module: Sources of CWM Data Element Table

Classification	Score
<i>Evidence of no CWM;</i>	0
CWM Configuration	0

Description:

N/A

Accessibility Factor Data Elements

Table 13
CHE Module: Location of CWM Data Element Table

Classification	Score
<i>Evidence of no CWM;</i>	0
Location of CWM	0

Description:

N/A

Table 14
CHE Module: Ease of Access Data Element Table

Classification	Score
<i>Barrier to MRS access is incomplete;</i>	8
Ease of Access	8

Description:

Base is fenced but site is accessible within the Base boundary.

Table 15
CHE Module: Status of Property Data Element Table

Classification	Score
<i>DoD control;</i>	0
Status of Property	0

Description:

Base is fenced but site is accessible within the Base boundary.

Receptor Factor Data Elements

Table 16
CHE Module: Population Density Data Element Table

Classification	Score
> 500 persons per square mile;	5
Population Density	5

Description:

The Base has an active duty, dependent, retiree, and civilian employee population of approximately 150,000 people. The density of the surrounding population is 196 persons per square mile within a 2-mile radius of the MRS boundary. Based on the 2008 census, the population of the City of Jacksonville is over 65,000 and Onslow County is over 165,000.

Table 17
CHE Module: Population Near Hazard Data Element Table

Classification	Score
26 or more inhabited structures;	5
Population Near Hazard	5

Description:

No inhabited structures located within the MRS boundary. At least 26 inhabited structures are located within 2 miles of the MRS.

Table 18
CHE Module: Types of Activities/Structures Data Element Table

Classification	Score
Residential, educational, commercial, or subsistence;	5
Parks and recreational areas;	4
Industrial or warehousing;	2
Types of Activities/Structure	5

Description:

Administration, training, residential barracks, industrial, warehouses, maintenance.

Table 19
CHE Module: Ecological and/or Cultural Resources Data Element Table

Classification	Score
No known or recurring activities;	0
Ecological and/or Cultural Resources	0

Description:

N/A

HHE Priority: EP HHE Rating: HHE Source:

Health Hazard Priority: EP

Receptor Description: Evaluation pending. Environmental media sampling and risk screenings are being conducted during PA/SI.

Pathway Description: N/A

Groundwater

CHF: N/A

MPF:

RF:

Combination: N/A

Rating: N/A

Priority: N/A

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A

Surface Water Human

CHF: N/A

MPF:

RF:

Combination: N/A

Rating: N/A

Priority: N/A

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A

Sediment Human

CHF: N/A

MPF:

RF:

Combination: N/A

Rating: N/A

Priority: N/A

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A

Surface Water Eco

CHF: N/A

MPF:

RF:

Combination: N/A

Rating: N/A

Priority: N/A

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A

Sediment Eco

CHF: N/A

MPF:

RF:

Combination: N/A

Rating: N/A

Priority: N/A

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A

Soil

CHF: N/A

MPF:

RF:

Combination: N/A

Rating: N/A

Priority: N/A

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A

QA Panel Report

6/13/2012

Site Name: UXO 000025 - VERONA LOOP
TRAINING AREA

Site POC: CLELAND DAVID

Site Location: CAMP LEJEUNE NC MCB

Stakeholder Participation: No

Cognizant FEC: MIDLANT

Regulatory Participation: No

Last QA Date:

Last QA MRS Priority:

Site Description:

UXO-25 is comprised of portions of two former ranges and encompasses approximately 25 acres of land located on west side of U.S. Route 17 just south of MCAS New River near the township of Verona, North Carolina. During the timeframe when the ranges were in use, Impact Area "M" (1941-1945) and M-16, Outdoor Classroom (1958) were located within the base fence line east of U.S. Route 17. Relocation of U.S. Route 17 in 1999 left portions of the former ranges outside the base fence line to the west of U.S. Route 17. A wide range of munitions were reportedly used. Impact Area "M" was possibly used for live fire and maneuver exercises with the use of mortars, recoilless rifles, 2.36-inch rockets, and hand and rifle grenades. Camp Training Order 5-1946, dated March 19, 1946, states that the former Impact Area "M" range has been disestablished and is no longer used for the firing of live ammunition. The only reference to the M-16, Outdoor Classroom is a range map dated 1958. Historical range information indicates that 0.30-caliber blanks may have been used, along with pyrotechnics. This area is no longer used for the firing of live ammunition. A PA/SI is currently being conducted. Anticipate Draft report in September 2012.

Factors Affecting the Change in MRS Priority:

Site previously had an Evaluation Pending priority

Reason for Addressing the MRSP Site out of Sequence:

Not Out of Sequence

Summary

Overall MRS Priority: 4	MRS Priority Source: EHE	
EHE Priority: 4	EHE Rating: C	EHE Score: 75
CHE Priority: NH	CHE Rating:	CHE Score: 58
HHE Priority: EP	HHE Rating:	HHE Priority Source:

EHE Priority:4 EHE Score: 75 EHE Rating: C

Explosive Hazard Factor Data Elements

Table 1

EHE Module: Munitions Type Data Element Table

Classification	Score
<i>Sensitive;</i>	30
<i>High explosive (unused);</i>	15
Munitions Type	30

Description:

No munitions found on-site to-date. Assumed potential for rocket motors, ESS based on 2.36" rocket. Primary munition concern for ESS: hand grenades

Table 2

EHE Module: Source of Hazard Data Element Table

Classification	Score
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<i>Former range;</i>	10
<i>Former maneuver area;</i>	5

Source of Hazard	10
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Description:

N/A

Accessibility Factor Data Elements

*Table 3
EHE Module: Location of Munitions Data Element Table*

Classification	Score
<i>Suspected (historical evidence);</i>	5
Location of Munitions	5

Description:

No munitions found on-site to-date.

*Table 4
EHE Module: Ease of Access Data Element Table*

Classification	Score
<i>No Barrier;</i>	10
Ease of Access	10

Description:

Accessible, located outside Base fenceline.

*Table 5
EHE Module: Status of Property Data Element Table*

Classification	Score
<i>Non-DoD control;</i>	5
Status of Property	5

Description:

Accessible, located outside Base fenceline.

Receptor Factor Data Elements

*Table 6
EHE Module: Population Density Data Element Table*

Classification	Score
<i>> 500 persons per square mile;</i>	5
Population Density	5

Description:

N/A

Table 7
EHE Module: Population Near Hazard Data Element Table

Classification	Score
<i>26 or more inhabited structures;</i>	5
Population Near Hazard	5

Description:

N/A

Table 8
EHE Module: Types of Activities/Structures Data Element Table

Classification	Score
<i>Residential, educational, commercial, or subsistence;</i>	5
Types of Activities/Structures	5

Description:

N/A

Table 9
EHE Module: Ecological and/or Cultural Resources Data Element Table

Classification	Score
<i>No known or recurring activities;</i>	0
Ecological and/or Cultural Resources	0

Description:

N/A

CHE Priority: NH CHE Score: 58 CHE Rating:

CWM Hazard Factor Data Elements

Table 11
CHE Module: CWM Configuration Data Element Table

Classification	Score
<i>Evidence of no CWM;</i>	0
CWM Configuration	0

Description:

N/A

Table 12

CHE Module: Sources of CWM Data Element Table

Classification	Score
<i>Evidence of no CWM;</i>	0
CWM Configuration	0
Description:	
N/A	

Accessibility Factor Data Elements

Table 13
CHE Module: Location of CWM Data Element Table

Classification	Score
<i>Evidence of no CWM;</i>	0
Location of CWM	0
Description:	
N/A	

Table 14
CHE Module: Ease of Access Data Element Table

Classification	Score
<i>No Barrier;</i>	10
Ease of Access	10
Description:	
Accessible, located outside Base fenceline.	

Table 15
CHE Module: Status of Property Data Element Table

Classification	Score
<i>Non-DoD control;</i>	5
Status of Property	5
Description:	
Accessible, located outside Base fenceline.	

Receptor Factor Data Elements

Table 16
CHE Module: Population Density Data Element Table

Classification	Score
<i>> 500 persons per square mile;</i>	5

Population Density 5

Description:

N/A

*Table 17
CHE Module: Population Near Hazard Data Element Table*

Classification	Score
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26 or more inhabited structures;	5
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Population Near Hazard 5

Description:

N/A

*Table 18
CHE Module: Types of Activities/Structures Data Element Table*

Classification	Score
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Residential, educational, commercial, or subsistence;	5
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Types of Activities/Structure 5

Description:

N/A

*Table 19
CHE Module: Ecological and/or Cultural Resources Data Element Table*

Classification	Score
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No known or recurring activities;	0
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Ecological and/or Cultural Resources 0

Description:

N/A

HHE Priority: EP	HHE Rating:	HHE Source:
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Health Hazard Priority:	EP
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Receptor Description:	N/A
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Pathway Description:	N/A
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Groundwater

CHF:	N/A	MPF:		RF:	
Combination:	N/A	Rating:	N/A	Priority:	N/A

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A

Surface Water Human**CHF:** N/A**MPF:****RF:****Combination:** N/A**Rating:** N/A**Priority:** N/A**Migration Pathway Factor Desc:**

N/A

Receptor Factor Desc:

N/A

Sediment Human**CHF:** N/A**MPF:****RF:****Combination:** N/A**Rating:** N/A**Priority:** N/A**Migration Pathway Factor Desc:**

N/A

Receptor Factor Desc:

N/A

Surface Water Eco**CHF:** N/A**MPF:****RF:****Combination:** N/A**Rating:** N/A**Priority:** N/A**Migration Pathway Factor Desc:**

N/A

Receptor Factor Desc:

N/A

Sediment Eco**CHF:** N/A**MPF:****RF:****Combination:** N/A**Rating:** N/A**Priority:** N/A**Migration Pathway Factor Desc:**

N/A

Receptor Factor Desc:

N/A

Soil

CHF: N/A

MPF:

RF:

Combination: N/A

Rating: N/A

Priority: N/A

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A

QA Panel Report

6/13/2012

Site Name: UXO 000026 - B-3 GAS CHAMBER

Site POC: CLELAND DAVID

Site Location: CAMP LEJEUNE NC MCB

Stakeholder Participation: No

Cognizant FEC: MIDLANT

Regulatory Participation: No

Last QA Date:

Last QA MRS Priority:

Site Description:

Formerly an AOC within UXO-01, the B-3 Gas Chamber facility covers 14-acres in Camp Geiger and was used between 1953 and 1958. As part of operational training activities, only Chemical Warfare Training Agents (Tear Gas) would have been used. No CWM Munitions would be used. There is no evidence of other usage, however, the area surrounding gas chambers is often used for other chemical training. Thus, War Gas Identification Sets and Riot Control Hand Grenades may have been used in the area. PA/SI (2008-2009) - resulted in no MC contamination being detected in site media above screening criteria and 353 geophysical anomalies identified. Expanded SI completed in 2012 and 2.36-inch rockets, rocket motors, and pieces of rockets were found in the 2.79b area. These MEC and MPPEH items are not consistent with the documented historical usage of this site as a former gas chamber.

Factors Affecting the Change in MRS Priority:

Site previously had an Evaluation Pending priority

Reason for Addressing the MRSP Site out of Sequence:

Not Out of Sequence

Summary

Overall MRS Priority: 3		MRS Priority Source: EHE
EHE Priority: 3	EHE Rating: B	EHE Score: 86
CHE Priority: 5	CHE Rating: E	CHE Score: 58
HHE Priority: 7	HHE Rating: F	HHE Priority Source: GW

EHE Priority:3 EHE Score: 86 EHE Rating: B

Explosive Hazard Factor Data Elements

Table 1

EHE Module: Munitions Type Data Element Table

Classification	Score
<i>High explosive (used or damaged);</i>	25
<i>High explosive (unused);</i>	15
Munitions Type	25

Description:

MEC found:

-24 M6A3 2.36-inch rockets

-1 M6A3 2.36-inch anti-tank high-explosive rocket

MPPEH found:

-15 M6A3 2.36-inch rockets

-38 M6 2.36-inch rocket motors, and three rocket pieces

-8 M6A3 2.36-inch anti-tank high-explosive rockets

Table 2

EHE Module: Source of Hazard Data Element Table

Classification	Score
<i>Former range;</i>	10
Source of Hazard	10

Description:

Although identified as former gas chamber, findings indicate likely a former range.

Accessibility Factor Data Elements

*Table 3
EHE Module: Location of Munitions Data Element Table*

Classification	Score
<i>Confirmed surface;</i>	25
<i>Confirmed subsurface, active;</i>	20
Location of Munitions	25

Description:

Confirmed surface and subsurface MEC/MPPEH.

*Table 4
EHE Module: Ease of Access Data Element Table*

Classification	Score
<i>Barrier to MRS access is incomplete;</i>	8
Ease of Access	8

Description:

Base is fenced but site is accessible within the Base boundary

*Table 5
EHE Module: Status of Property Data Element Table*

Classification	Score
<i>DoD control;</i>	0
Status of Property	0

Description:

Base is fenced but site is accessible within the Base boundary

Receptor Factor Data Elements

*Table 6
EHE Module: Population Density Data Element Table*

Classification	Score
<i>> 500 persons per square mile;</i>	5

Population Density	5
---------------------------	----------

Description:

The Base has an active duty, dependent, retiree, and civilian employee population of approximately 150,000 people. The density of the surrounding population is 196 persons per square mile within a 2-mile radius of the MRS boundary. Based on the 2008 census, the population of the City of Jacksonville is over 65,000 and Onslow County is over 165,000.

Table 7
EHE Module: Population Near Hazard Data Element Table

Classification	Score
<i>26 or more inhabited structures;</i>	5
Population Near Hazard	5

Description:

No inhabited structures located within the MRS boundary. At least 26 inhabited structures are located within 2 miles of the MRS.

Table 8
EHE Module: Types of Activities/Structures Data Element Table

Classification	Score
<i>Residential, educational, commercial, or subsistence;</i>	5
<i>Parks and recreational areas;</i>	4
<i>Industrial or warehousing;</i>	2
Types of Activities/Structures	5

Description:

Administration, training, residential barracks, industrial, warehouses, maintenance.

Table 9
EHE Module: Ecological and/or Cultural Resources Data Element Table

Classification	Score
<i>Ecological resources present;</i>	3
Ecological and/or Cultural Resources	3

Description:

Jurisdictional wetlands present within site boundary.

CHE Priority: 5 CHE Score: 58 CHE Rating: E

CWM Hazard Factor Data Elements

Table 11
CHE Module: CWM Configuration Data Element Table

Classification	Score
<i>CWM mixed with UXO;</i>	25
<i>CAIS (chemical agent identification sets);</i>	10

CWM Configuration	25
--------------------------	-----------

Description:

Only Chemical Warfare Training Agents (Tear Gas) would have been used. No CWM Munitions would be used. There is no evidence of other usage, however, the area surrounding gas chambers is often used for other chemical training. Thus, War Gas Identification Sets and Riot Control Hand Grenades may have been used in the area

Table 12
CHE Module: Sources of CWM Data Element Table

Classification	Score
<i>Former Training Facility using CWM or CAIS;</i>	2
CWM Configuration	2

Description:

Because it is unknown whether CAIS sets with CWM were used, it is assumed.

Accessibility Factor Data Elements

Table 13
CHE Module: Location of CWM Data Element Table

Classification	Score
<i>Suspected (physical evidence);</i>	10
Location of CWM	10

Description:

Suspected based on site history.

Table 14
CHE Module: Ease of Access Data Element Table

Classification	Score
<i>Barrier to MRS access is incomplete;</i>	8
Ease of Access	8

Description:

Base is fenced but site is accessible within the Base boundary

Table 15
CHE Module: Status of Property Data Element Table

Classification	Score
<i>DoD control;</i>	0
Status of Property	0

Description:

Base is fenced but site is accessible within the Base boundary

Receptor Factor Data Elements

Table 16
CHE Module: Population Density Data Element Table

Classification	Score
> 500 persons per square mile;	5
Population Density	5

Description:

The Base has an active duty, dependent, retiree, and civilian employee population of approximately 150,000 people. The density of the surrounding population is 196 persons per square mile within a 2-mile radius of the MRS boundary. Based on the 2008 census, the population of the City of Jacksonville is over 65,000 and Onslow County is over 165,000.

Table 17
CHE Module: Population Near Hazard Data Element Table

Classification	Score
26 or more inhabited structures;	5
Population Near Hazard	5

Description:

No inhabited structures located within the MRS boundary. At least 26 inhabited structures are located within 2 miles of the MRS.

Table 18
CHE Module: Types of Activities/Structures Data Element Table

Classification	Score
Residential, educational, commercial, or subsistence;	5
Parks and recreational areas;	4
Industrial or warehousing;	2
Types of Activities/Structure	5

Description:

Administration, training, residential barracks, industrial, warehouses, maintenance.

Table 19
CHE Module: Ecological and/or Cultural Resources Data Element Table

Classification	Score
Ecological resources present;	3
Ecological and/or Cultural Resources	3

Description:

Jurisdictional wetlands present within site boundary.

HHE Priority: 7 HHE Rating: F HHE Source: GW

Health Hazard Priority: 7

Receptor Description: Groundwater: MLL
 Arsenic 22.6 ug/L (/4.5=5=medium), Migratory Pathway is confined=low, Receptors no potential threat to water supply=limited
 Antimony 8.3 ug/L (/15=0.56=low)
 2,4-Dinitrotoluene 0.2 ug/L (/73=0.003=low)
 Surface Water: LLL
 Arsenic 7.5 ug/L (/30=0.25=low), Migratory Pathway is confined=low, Receptors =limited
 2,4-Dinitrotoluene 11 ug/L (/230=0.05=low)
 Sediment: LLL
 Arsenic 0.6 mg/kg (/6=0.1=low), Migratory Pathway is confined=low, Receptors =limited
 Soil: LLL
 Lead 325 mg/kg (/400=0.8=low), Migratory Pathway is confined=low, Receptors=limited

Pathway Description: N/A

Groundwater

CHF: 5.578295	MPF: L	RF: L
Combination: MLL	Rating: F	Priority: 7

Migration Pathway Factor Desc:
N/A

Receptor Factor Desc:
N/A

Surface Water Human

CHF: 1.817352	MPF: L	RF: L
Combination: LLL	Rating: G	Priority: 8

Migration Pathway Factor Desc:
N/A

Receptor Factor Desc:
N/A

Sediment Human

CHF: 0.027273	MPF: L	RF: L
Combination: LLL	Rating: G	Priority: 8

Migration Pathway Factor Desc:
N/A

Receptor Factor Desc:

N/A

Surface Water Eco

CHF: N/A

MPF:

RF:

Combination: N/A

Rating: N/A

Priority: N/A

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A

Sediment Eco

CHF: N/A

MPF:

RF:

Combination: N/A

Rating: N/A

Priority: N/A

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A

Soil

CHF: 0.812500

MPF: L

RF: L

Combination: LLL

Rating: G

Priority: 8

Migration Pathway Factor Desc:

N/A

Receptor Factor Desc:

N/A