



# DEPARTMENT OF THE ARMY

SOUTH ATLANTIC DIVISION, CORPS OF ENGINEERS

ROOM 322, 77 FORSYTH ST, SW

ATLANTA, GEORGIA 30303-3400

REPLY TO  
ATTENTION OF:

CESAD-ET-PR (200)

20 DEC 1996

MEMORANDUM FOR CDR, HQUSACE, ATTN: CEMP-ZA, WASH DC 20314-1000

SUBJECT: DERP-FUDS Inventory Project Report (INPR), Camp  
Wadsworth, Site No. I04SC003200

1. The "negative" INPR for the subject site has been signed and is enclosed for your file.
2. This site was evaluated and determined to be not eligible for the DERP-FUDS program because it was never used by the Department of Defense. The site was used by the National Guard of New York during World War I.
3. Copies of this report are concurrently being sent to CEHNC-OE-PM and CESAC-EN-PR. In accordance with current guidance, the District will initiate the process of notifying the current owners of the "negative" determination by letter thirty days from the date of this memorandum.
4. The Division focal point is Gary Mauldin, CESAD-ET-PR, at (404) 331-6043.

Encl

  
R. L. VANANTWERP  
Brigadier General, USA  
Commanding

CF (w/encl):

CDR, HUNTSVILLE ENGINEERING & SUPPORT CENTER, ATTN: CEHNC-OE-PM  
CDR, CHARLESTON DISTRICT, ATTN: CESAC-EN-PR



DEPARTMENT OF THE ARMY  
CHARLESTON DISTRICT, CORPS OF ENGINEERS  
P.O. BOX 919  
CHARLESTON, S.C. 29402-0919

REPLY TO  
ATTENTION OF

CESAC-EN-PR

OCT 7 1996


ET-P  
97-09  
5:11/15

MEMORANDUM FOR COMMANDER, SOUTH ATLANTIC DIVISION,  
ATTN: CESAD-PD-R (Mauldin)

SUBJECT: DERP-FUDS Inventory Project Report (INPR) for Site No. I04SC003200,  
Camp Wadsworth, Spartanburg, SC

1. This INPR reports on the DERP-FUDS preliminary assessment of the Camp Wadsworth Cantonment area and Artillery Impact Range. A site visit was conducted on 16 February 1995.
2. We determined that the site was formerly used by the National Guard of New York, 27th Division. A recommended Findings and Determination of Eligibility is enclosed.
3. Based on site investigation findings, it is determined that there is a potential for ordnance contamination at the artillery impact range. However, this site was not formerly used by the Department of Defense and, therefore, does not meet the requirements of DERP-FUDS established under 10 USC 2701, et. seq.
4. I recommend that you:
  - a. Approve and sign the Findings and Determination of Eligibility;
  - b. Forward a copy of the INPR to CEHND for further action.

Encl

  
THOMAS F. JILICH  
Lieutenant Colonel, EN  
Commanding

CF:  
CESAC-PM-S  
CESAS-RE-PC (Marshall)

**SITE SURVEY SUMMARY SHEET  
FOR  
DERP-FUDS SITE NO. 104SC003200  
CAMP WADSWORTH**

**SITE NAME:** Camp Wadsworth

**LOCATION:** Spartanburg, Spartanburg and Greenville Counties, South Carolina

**SITE HISTORY:** During World War I, Camp Wadsworth was established as a training facility for the National Guard of New York, 27th Division. The division was complete with the normal complement of Infantry, Artillery, and some Cavalry.

The artillery firing range was leased near Hogback and Glassy mountains. The range was two miles wide and seven miles long. All of the residents except one family were relocated and artillery units moved into the area to initiate firing. Men traveling to the range were transported by train to Landrum and they then marched to the firing range.

**SITE VISIT:** A site visit was conducted in December 1994 and February 1995 by Wayne Bogan, CESAC-EN-PR. Contact was made with Wes Hope (Dorman High School teacher), Arnold Emory (land owner), and Deputy Sheriff Dean Hamrick.

**CATEGORY OF HAZARD:** OEW.

**PROJECT DESCRIPTION:**

a. CON/HTRW. No Further Action. There is no evidence of CON/HTRW for which the Government is responsible at this site.

b. HTRW. No Further Action. There is no evidence of HTRW for which the Government is responsible at this site.

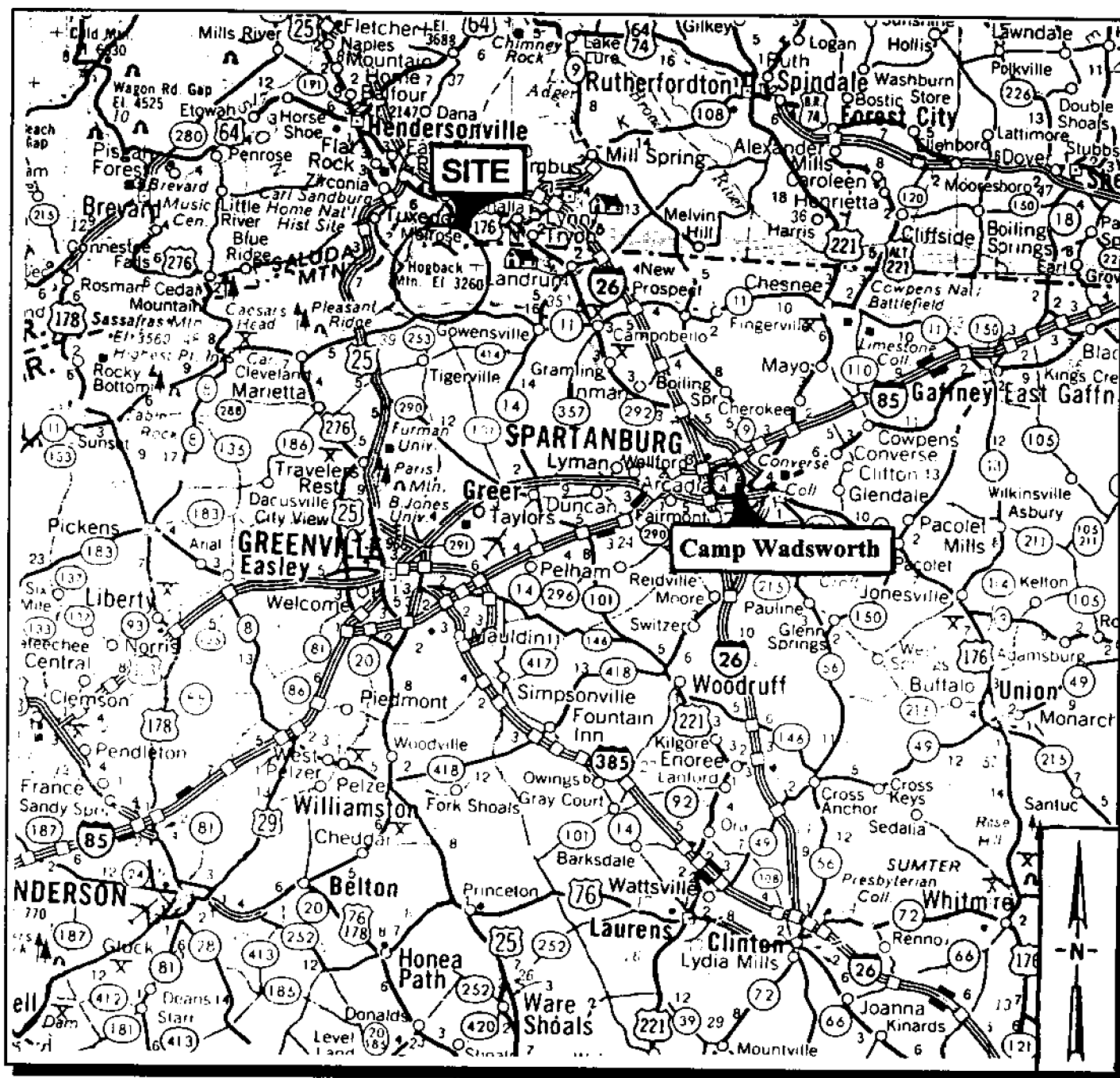
c. BD/DR. No Further Action. There is no evidence of BD/DR for which the Government is responsible at this site.

d. OEW. Evidence was found related to the firing range located off State Hwy 11 near Glassy Mountain. There was an artillery firing range located off State Highway 11 and a rifle range near Glassy Mountain. The exact location of the rifle range has not been determined.

**AVAILABLE STUDIES AND REPORTS:** None

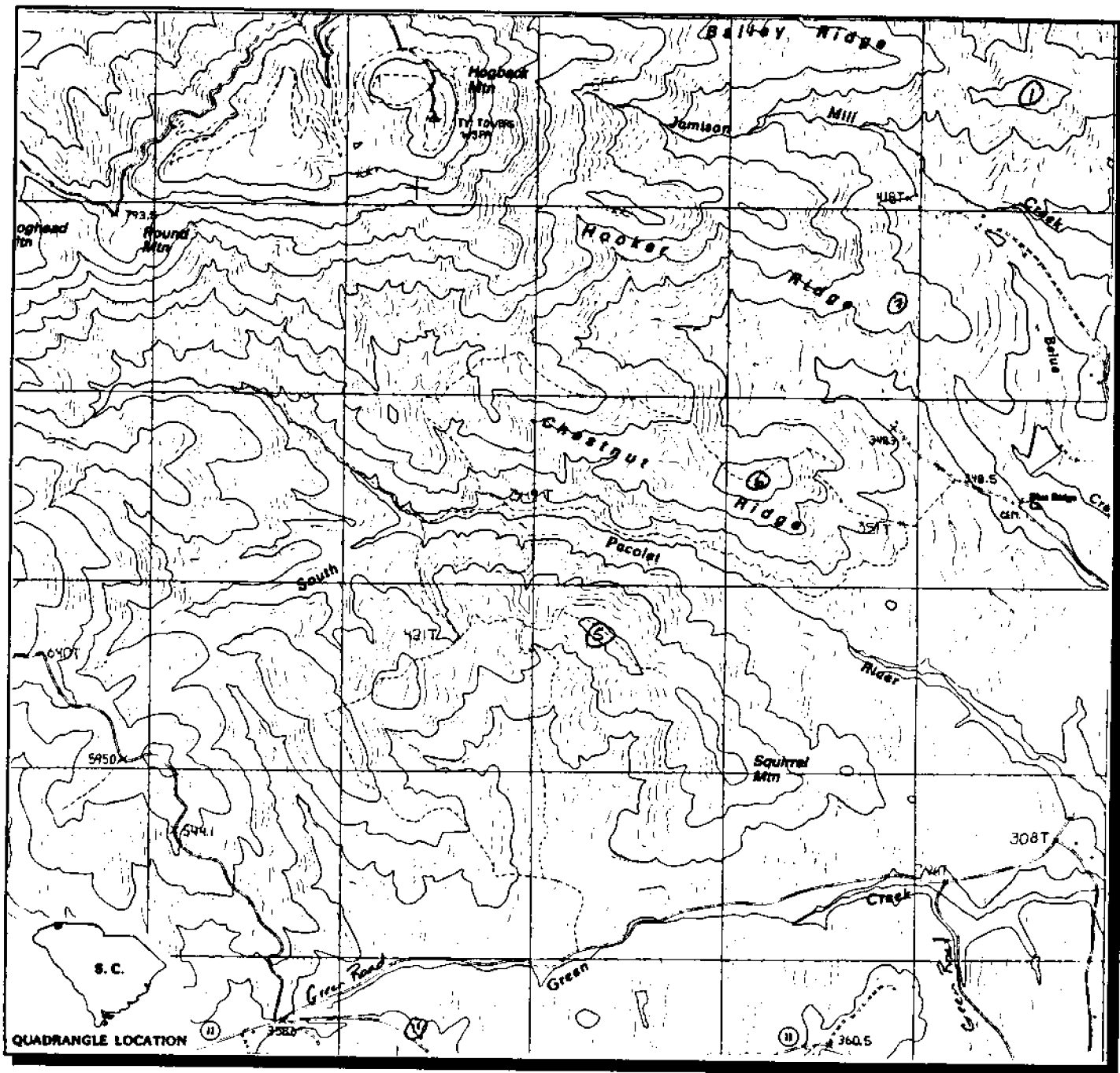
**PA POC:** Wayne Bogan, CESAC-EN-PR, 803-727-4366.

# Vicinity Map



Camp Wadsworth  
104SC003200

# Site Map



Camp Wadsworth Artillery Range  
104SC003200

**DEFENSE ENVIRONMENTAL RESTORATION PROGRAM  
FORMERLY USED DEFENSE SITES  
FINDINGS AND DETERMINATION OF ELIGIBILITY**

**CAMP WADSWORTH  
SITE NO. I04SC003200**

**FINDINGS OF FACT**

1. Camp Wadsworth was located 2.5 miles west of Spartanburg, South Carolina. Acquisition documents are not available for this site.
2. The camp was utilized as a World War I training site for the National Guard of New York, 27th Division. The site contained numerous improvements such as a hospital, field bakery and a remount station. A rifle and artillery range were located approximately 20 miles northeast of the main camp.
3. Since the closure of Camp Wadsworth, the land has been utilized for commercial and residential purposes.

**DETERMINATION**

Based on the foregoing findings of fact, it has been determined that the site was not formerly used by the Department of Defense. Therefore, this is a negative report, and the site is not eligible for the Defense Environmental Restoration Program - Formerly Used Defense Sites established under 10 USC 2701, et seq.

20 Dec 1996  
DATE

  
ROBERT L. VANANTWERP  
Brigadier General, USA  
Commanding



## DEPARTMENT OF THE ARMY

SOUTH ATLANTIC DIVISION, CORPS OF ENGINEERS

ROOM 313, 77 FORSYTH ST., S.W.

ATLANTA, GEORGIA 30335-6801

REPLY TO  
ATTENTION OF:

S: 15 July 1995

CESAD-EP-PR (200)

19 June 1995

MEMORANDUM FOR COMMANDER, CHARLESTON DISTRICT, ATTN: CESAC-EN-PR

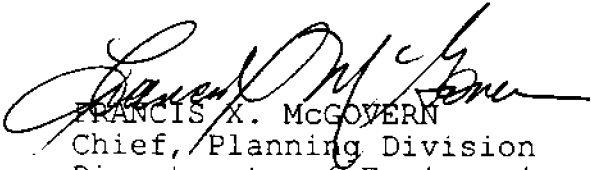
SUBJECT: DERP-FUDS Inventory Project Report (INPR) for Camp  
Wadsworth, Site No. I04SC003200

1. The subject INPR is returned for revision. The Findings and Determination of Eligibility (FDE) is inadequate and does not contain the required information. The FDE must show that DOD acquired the site, used the site, and disposed of the site. Since the Site Survey Summary Sheet states the site was developed for use by the National Guard, the FDE must show that property accountability was with DOD during use by the National Guard.

2. The INPR should be revised and resubmitted to CESAD-EP-PR by 15 July 1995 for processing. Our point of contact is Gary Mauldin at (404) 331-6043.

FOR THE DIRECTOR OF ENGINEERING AND PLANNING:

Encl

  
FRANCIS X. MCGOVERN  
Chief, Planning Division  
Directorate of Engineering  
and Planning



DEPARTMENT OF THE ARMY  
CHARLESTON DISTRICT, CORPS OF ENGINEERS  
P.O. BOX 919  
CHARLESTON, S.C. 29402-0919

REPLY TO  
ATTENTION OF

CESAC-EN-PR

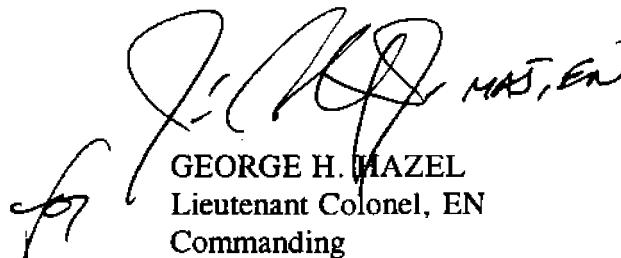
MAR 14 1995

MEMORANDUM FOR COMMANDER, SOUTH ATLANTIC DIVISION,  
ATTN: CESAD-PD-R (Mauldin)

SUBJECT: DERP-FUDS Inventory Project Report (INPR) for Site No. I04SC003200, Camp Wadsworth

1. This INPR reports on the DERP-FUDS preliminary assessment of the Camp Wadsworth Cantonment area and Artillery Impact Range. A site visit was conducted on 16 February 1995. The Site Survey Summary Sheet and site maps are enclosed.
2. We determined that the site was formerly used by the Department of the Army. A recommended Findings and Determination of Eligibility is enclosed.
3. Based on site investigation findings, it is determined that there is a potential for ordnance contamination at the artillery impact range. The category of hazardous waste at the site is Ordnance and Explosive Waste (OEW). A project summary sheet and Risk Assessment Code (RAC) for the proposed project are enclosed.
4. I recommend that you:
  - a. Approve and sign the Findings and Determination of Eligibility;
  - b. Forward a copy of the INPR to CEHND for further action;
  - c. Forward a copy of this INPR to CEMP requesting approval and funds for this District to accomplish the OEW project.

Encl (8 cys)

  
GEORGE H. HAZEL  
Lieutenant Colonel, EN  
Commanding

CF:  
CESAC-PM-S  
CESAC-OC  
CESAS-RE-PC (Hinely)



**PROJECT SUMMARY SHEET  
FOR  
DERP-FUDS PROJECT NO. I04SC003201**

**PROJECT DESCRIPTION:** The project is located approximately 6 miles west of Landrum, South Carolina, between Glassy Mountain and Chestnut Ridge. Although the units were housed in Spartanburg, South Carolina, there has been no evidence of ordnance related contamination within the cantonment area.

The artillery range is located along State Highway 11. The firing points were located primarily to the south of the old highway 11. The targets are located on Chestnut, Hooker, and Bailey Ridges.

There were two brigade rifle ranges with a range administration building between the ranges. The target butts were located at the foot of Glassy Rock. Each range had 111 targets for firing at 100, 200, and 300 yards; 80 targets at 500 and 600 yards; and 12 targets at 1,000 yards. In addition, there was a machine gun range located on the Phillips bottom lands near Dark Corners.

The following are a few of the schools that were located at Camp Wadsworth: Grenade School (hand and rifle), Bayonet Fighting and Physical Training School, Musketry School, Automatic Arms School, Machine Gun School, One Pounder School (none furnished until the unit reached France), Stokes Mortar School (Stokes mortars were not furnished until about 60 days prior to departure for Europe), and Gas Defense School.

**PROJECT ELIGIBILITY:** Ordnance is considered a safety risk under DERP-FUDS. The site has been evaluated in accordance with the SOP for Preliminary Assessments at Potential OEW sites (16 Mar 93).

**POLICY CONSIDERATIONS:** No clearance documentation has been located for this site.

**PROPOSED PROJECT:** It is recommended that this INPR be referred to CEHND for final determination of the next appropriate action.

**RAC:** Attached.

**DISTRICT POC:** Wayne Bogan, DERP-FUDS Coordinator, CESAC-EN-PR,  
803-727-4366.

18 Apr 94  
Previous editions obsolete

RISK ASSESSMENT PROCEDURES FOR  
ORDNANCE AND EXPLOSIVE WASTE (OEW) SITES

Site Name	<u>CAMP WADSWORTH</u>	Rater's Name	<u>WAYNE BOGAN</u>
Site Location	<u>SPARTANBURG</u>	Phone No.	<u>803-727-4366</u>
DERP Project #	<u>TD45C 003201</u>	Organization	<u>CE5AC-EN-PR</u>
Date Completed	<u>10 MAR 95</u>	RAC Score	<u>2</u>

OEW RISK ASSESSMENT:

This risk assessment procedure was developed in accordance with MIL-STD 882C and AR 385-10. The RAC score will be used by CEHND to prioritize the remedial action at Formerly Used Defense Sites. The OEW risk assessment should be based upon best available information resulting from records searches, reports of Explosive Ordnance Disposal (EOD) detachment actions, and field observations, interviews, and measurements. This information is used to assess the risk involved based upon the potential OEW hazards identified at the site. The risk assessment is composed of two factors, hazard severity and hazard probability. Personnel involved in visits to potential OEW sites should view the CEHND videotape entitled "A Life Threatening Encounter: OEW."

Part I. Hazard Severity. Hazard severity categories are defined to provide a qualitative measure of the worst credible mishap resulting from personnel exposure to various types and quantities of unexploded ordnance items.

TYPE OF ORDNANCE  
(Circle all values that apply)

A. Conventional Ordnance and Ammunition	VALUE
Medium/Large Caliber (20 mm and larger)	(10)
Bombs, Explosive	10
Grenades, Hand and Rifle, Explosive	(10)
Landmines, Explosive	10
Rockets, Guided Missiles, Explosive	10
Detonators, Blasting Caps, Fuzes, Boosters, Bursters	6
Bombs, Practice (w/spotting charges)	6
Grenades, Practice (w/spotting charges)	(4)
Landmines, Practice (w/spotting charges)	4
Small Arms (.22 cal - .50 cal)	(1)
Conventional Ordnance and Ammunition (Select the largest single value)	10

What evidence do you have regarding conventional OEW? MAPS OF  
Artillery range.

B. Pyrotechnics (For munitions not described above.)

VALUE

Munition (Container) Containing  
White Phosphorus (WP) or other  
Pyrophoric Material (i.e.,  
Spontaneously Flammable) 10

Munition Containing A Flame  
or Incendiary Material (i.e., Napalm,  
Triethylaluminum Metal Incendiaries) 6

Flares, Signals, Simulators, Screening  
Smokes (other than WP) 4

Pyrotechnics (Select the largest single value) 0

What evidence do you have regarding pyrotechnics? NONE

C. Bulk High Explosives (Not an integral part of conventional ordnance;  
uncontainerized.)

VALUE

Primary or Initiating Explosives  
(Lead Styphnate, Lead Azide,  
Nitroglycerin, Mercury Azide,  
Mercury Fulminate, Tetracene, etc.) 10

Demolition Charges 10

Secondary Explosives 8  
(PETN, Compositions A, B, C,  
Tetryl, TNT, RDX, HMX, HBX,  
Black Powder, etc.)

Military Dynamite 6

Less Sensitive Explosives 3  
(Ammonium Nitrate, Explosive D, etc.)

High Explosives (Select the largest single value) 0

What evidence do you have regarding bulk explosives? NONE

D. Bulk Propellants (Not an integral part of rockets, guided missiles, or  
other conventional ordnance; uncontainerized)

VALUE

Solid or Liquid Propellants 6

Propellants 0

What evidence do you have regarding bulk propellants? NONE

**E. Chemical Warfare Materiel and Radiological Weapons**

	VALUE
Toxic Chemical Agents (Choking, Nerve, Blood, Blister)	25
War Gas Identification Sets	20
Radiological	15
Riot Control Agents (Vomiting, Tear)	5
Chemical and Radiological (Select the largest single value)	<u>0</u>

What evidence do you have of chemical/radiological OEW? GAS training,  
but NO evidence actual chemicals or gases.

**TOTAL HAZARD SEVERITY VALUE**

(Sum of Largest Values for A through E--Maximum of 61)

Apply this value to Table 1 to determine Hazard Severity Category.

**TABLE 1**

**HAZARD SEVERITY\***

Description	Category	Hazard Severity Value
CATASTROPHIC	I	21 and greater
CRITICAL	<u>II</u>	10 to 20
MARGINAL	III	5 to 9
NEGLIGIBLE	IV	1 to 4
••NONE		0

• Apply Hazard Severity Category to Table 3.

\*\*If Hazard Severity Value is 0, you do not need to complete Part II. Proceed to Part III and use a RAC Score of 5 to determine your appropriate action.

Part II. Hazard Probability. The probability that a hazard has been or will be created due to the presence and other rated factors of unexploded ordnance or explosive materials on a formerly used DOD site.

AREA, EXTENT, ACCESSIBILITY OF OEW HAZARD  
(Circle all values that apply)

A. Locations of OEW Hazards

VALUE

On the surface

(5)

Within Tanks, Pipes, Vessels  
or Other confined locations.

4

Inside walls, ceilings, or other  
parts of Buildings or Structures.

3

Subsurface

(2)

Location (Select the single largest value)

5

What evidence do you have regarding location of OEW? Map of range  
and use of mortars.

B. Distance to nearest inhabited locations or structures likely to be at risk from OEW hazard (roads, parks, playgrounds, and buildings).

VALUE

Less than 1250 feet

5

1250 feet to 0.5 miles

(4)

0.5 miles to 1.0 mile

3

1.0 mile to 2.0 miles

2

Over 2 miles

1

Distance (Select the single largest value)

4

What are the nearest inhabited structures? Blue Ridge Church.

C. Numbers of buildings within a 2 mile radius measured from the OEW hazard area, not the installation boundary.

	VALUE
26 and over	5
16 to 25	4
11 to 15	3
6 to 10	2
1 to 5	①
0	0

Number of Buildings (Select the single largest value) 1

Narrative Rural area. There is planned development for nearby areas

D. Types of Buildings (within a 2 mile radius)

	VALUE
Educational, Child Care, Residential, Hospitals, Hotels, Commercial, Shopping Centers	⑤
Industrial, Warehouse, etc.	4
Agricultural, Forestry, etc.	3
Detention, Correctional	2
No Buildings	0

Types of Buildings (Select the largest single value) 5

Describe types of buildings in the area. Homes and churches

E. Accessibility to site refers to access by humans to ordnance and explosive wastes. Use the following guidance:

BARRIER	VALUE
No barrier or security system	5
Barrier is incomplete (e.g., in disrepair or does not completely surround the site). Barrier is intended to deny egress from the site, as for a barbed wire fence for grazing.	4
A barrier, (any kind of fence in good repair) but no separate means to control entry. Barrier is intended to deny access to the site.	3
Security guard, but no barrier	2
Isolated site	1
A 24-hour surveillance system (e.g., television monitoring or surveillance by guards or facility personnel) which continuously monitors and controls entry onto the facility; or An artificial or natural barrier (e.g., a fence combined with a cliff), which completely surrounds the facility; and a means to control entry, at all times, through the gates or other entrances to the facility (e.g., an attendant, television monitors, locked entrances, or controlled roadway access to the facility).	0
Accessibility (Select the single largest value)	5
Describe the site accessibility. <u>Large forest area.</u>	

F. Site Dynamics - This deals with site conditions that are subject to change in the future, but may be stable at the present. Examples would be excessive soil erosion by beaches or streams, increasing land development that could reduce distances from the site to inhabited areas or otherwise increase accessibility.

	VALUE
Expected	5
None Anticipated	0
Site Dynamics (Select largest value)	5
Describe the site dynamics. <u>Some potential development within a 5 mile radius.</u>	

**TOTAL HAZARD PROBABILITY VALUE**

(Sum of Largest Values for A through F--Maximum of 30)

25

Apply this value to Hazard Probability Table 2 to determine  
Hazard Probability Level.

**TABLE 2**

**HAZARD PROBABILITY**

Description	Level	Hazard Probability Value
FREQUENT	A	27 or greater
PROBABLE	B	21 to 26
OCCASIONAL	C	15 to 20
REMOTE	D	8 to 14
IMPROBABLE	E	less than 8

• Apply Hazard Probability Level to Table 3.



Part III. Risk Assessment. The risk assessment value for this site is determined using the following Table 3. Enter with the results of the hazard probability and hazard severity values.

TABLE 3

Probability Level		FREQUENT A	PROBABLE B	OCCASIONAL C	REMOTE D	IMPROBABLE E
Severity Category:						
CATASTROPHIC	I	1	1	2	3	4
CRITICAL	II	1	2	3	4	5
MARGINAL	III	2	3	4	4	5
NEGLIGIBLE	IV	3	4	4	5	5

RISK ASSESSMENT CODE (RAC)

- RAC 1 Expedite INPR, recommending further action by CEHND - Immediately call CEHND-ED-SY--commercial 205-955-4968 or DSN 645-4968.
- RAC 2 High priority on completion of INPR - Recommend further action by CEHND.
- RAC 3 Complete INPR - Recommend further action by CEHND.
- RAC 4 Complete INPR - Recommend further action by CEHND.
- RAC 5 Usually indicates that no further action (NOFA) is necessary. Submit NOFA and RAC to CEHND.

Part IV. Narrative. Summarize the documented evidence that supports this risk assessment. If no documented evidence was available, explain all the assumptions that you made.

*Used maps from National Archives to locate targets and firing points.*  
*Used newsletters and historical documents to determine types of schools present.*