

**Final  
Site-Specific Safety and Health Plan Attachments  
Ranges at Iron Mountain Road and  
Ranges at Bains Gap Road  
Fort McClellan  
Calhoun County, Alabama**

**Skeet Range, Parcel 69(Q)  
Range 19, Parcel 75(Q)  
Range 13, Parcel 71(Q)  
Range 12, Parcel 70(Q)**

**Range 21, Parcel 77(Q)  
Range 22, Parcel 78(Q)  
Range 27, Parcel 85(Q)**

**Prepared for:  
U.S. Army Corps of Engineers, Mobile District  
109 St. Joseph Street, Mobile,  
Alabama 36602**

**Prepared by:  
  
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312 Directors Drive  
Knoxville, Tennessee 37923**

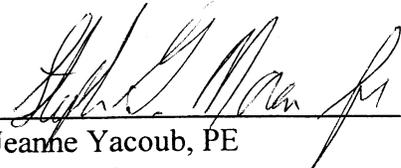
**Task Order CK05  
Contract No. DACA21-96-D-0018  
IT Project No. 774645**

**August 2001**

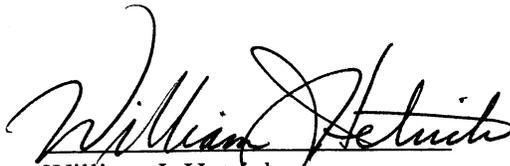
This Site-Specific Safety and Health Plan must be used in conjunction with the Installation-Wide Safety and Health Plan, Fort McClellan, Alabama.

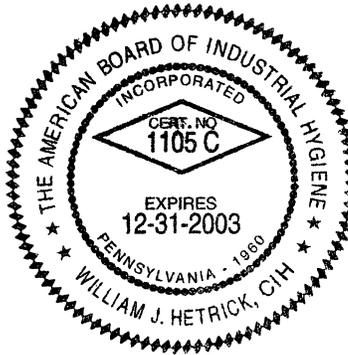
**Site-Specific Safety and Health Plan Attachment Approval  
Fort McClellan, Calhoun County, Alabama**

I have read and approve this site-specific safety and health plan attachment for the Ranges at Iron Mountain Road and Ranges at Bains Gap Road, Fort McClellan, Alabama, with respect to project hazards, regulatory requirements, and IT Corporation procedures

  
\_\_\_\_\_  
Jeanne Yacoub, PE  
Project Manager

8/6/01  
Date

  
\_\_\_\_\_  
William J Hetrick  
Health & Safety Manager



8/6/01  
Date

  
\_\_\_\_\_  
Jeff Tarr  
Site Coordinator

8/6/01  
Date

## **Acknowledgements**

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The approved version of this site-specific safety and health plan (SSHP) attachment for the Ranges at Iron Mountain Road and Ranges at Bains Gap Road, Fort McClellan, Calhoun County, Alabama has been provided to the site coordinator. I acknowledge my responsibility to provide the site coordinator with the equipment, materials, and qualified personnel to implement fully all safety requirements in this SSHP attachment. I will formally review this plan with the health and safety staff every 6 months until project completion.

  
Project Manager

  
Date

I acknowledge receipt of this SSHP attachment from the project manager, and that it is my responsibility to explain its contents to all site personnel and cause these requirements to be fully implemented. Any change in conditions, scope of work, or other change that might affect worker safety requires me to notify the project manager and the health and safety manager.

  
Site Coordinator

  
Date



## Fort McClellan Gate Hours

Galloway Gate	Galloway Road. Open 6 am to 6 pm Monday through Friday
Baltzell Gate	Baltzell Road. Open 24 hours daily, 7 days a week.

## Fort McClellan Project Emergency Contacts

Range Control Office (Main Post) .....	(256) 848-6772
Fire Department (off post) .....	911
Ambulance (off post) .....	911
Regional Medical Center .....	(256) 235-5121
Military Police (SSG Busch) .....	(256) 848-5680, 848-4824
DOD Guard Force (Mr. Bolton) .....	(256) 848-5680, 848-4732
Anniston Police Department .....	(256) 238-1800
Chemical Agent Emergencies .....	(256) 895-1598
(Jimmy Walker, CEHNC).....	cell phone (256) 759-3931
UXO Emergencies .....	(256) 895-1598
(Jimmy Walker, CEHNC).....	cell phone (256) 759-3931
UXO Non emergencies/Reporting Only (Ronald Levy) .....	(256) 848-3758
Baltzell Gate Guard Shack .....	(256) 848-5693, 848-3821
National Response Center & Terrorist Hotline.....	(800) 424-8802
Poison Control Center.....	(800) 462-0800
EPA Region IV .....	(404) 562-8725
Ronald Levy, Chief, FTMC Environmental Management .....	(256) 848-3758
Ellis Pope, U.S. Army Corps of Engineers .....	(334) 690-3077
Jeanne Yacoub, IT Project Manager .....	(770) 663-1429
Bill Hetrick, IT H&S Manager .....	(865) 690-3211, and pager (888) 655-9529
Jeff Tarr, IT Site Manager.....	(256) 848-3482
Mike Moore, Fort McClellan Safety Office.....	(256) 848-5433
Dr. Jerry H. Berke, Health Resources Occupational Physician .....	(800) 350-4511
Sergeant Tim Lane, National Guard Security Operations .....	(256) 848-6176

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## 1.0 Site Work Plan Summary

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**Project Objective.** The scope of work for activities associated with the range sampling at the Ranges at Iron Mountain Road and the Ranges at Bains Gap Road, as specified by the statement of work (USACE, 1999), includes the following task:

- Conduct a surface and near-surface UXO survey over all areas to be included in the sampling effort.
- Provide downhole UXO support for all drilling to determine buried downhole hazards.
- Collect surface soil, surface water/sediment, groundwater, and x-ray fluorescence (XRF) samples at the ranges to determine whether potential site-specific chemicals (PSSC) are present at the Ranges at Iron Mountain Road and the Ranges at Bains Gap Road, and to provide data useful for supporting any future corrective measures and closure activities.
- Analyze samples for the parameters listed in Section 4.5 of the SFSP for each individual range.

UXO surface sweeps and downhole surveys of soil borings will be required to support field activities at this site. The surface sweeps and downhole surveys will be conducted to identify anomalies for the purpose of UXO avoidance. The site-specific UXO safety plan will be used to support sample collection activities at the Ranges at Iron Mountain Road and the Ranges at Bains Gap Road, if incidental ordnance, explosives, and UXO are encountered and require avoidance.

At completion of the field activities and sample analysis, draft and final reports will be prepared to summarize the results of the activities, to evaluate the absence or presence of PSSCs at this site, and to recommend further actions, if appropriate. Range sampling reports will be prepared in accordance with current U.S. Environmental Protection Agency (EPA) Region IV, and the Alabama Department of Environmental Management (ADEM) guidelines.

**Personnel Requirements.** Up to 15 employees are anticipated for this scope of work.

Note: All personnel on this site shall have received training, informational programs, and medical surveillance as outlined in the installation-wide safety and health plan (SHP) for site investigations at FTMC, and be familiar with the requirements of this site-specific safety and health plan (SSHP). This SSHP must be used in conjunction with the Installation Wide SHP, FTMC, Alabama.

## **2.0 Site Characterization and Analysis**

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### **2.1 Anticipated Hazards**

The activity hazard analysis in Chapter 5.0 contains project-specific practices utilized to reduce or eliminate anticipated site hazards. The activity hazard analysis indicates specific chemical and physical hazards that may be present and encountered during each task from on-site operations. Below each task is a list of hazards and specific actions that will be taken to control the respective hazards. These control measures may include work practice controls, engineering controls, and/or use of appropriate personal protective equipment (PPE). Site control with the use of specific work zones (support zone, contamination reduction zone, and exclusion zone) is addressed in Chapter 7.0 of Appendix A of the IT Corporation (IT), August 2000a, *Final Installation-Wide Sampling and Analysis Plan, Fort McClellan, Calhoun County, Alabama*.

Detailed descriptions of each of the sites to be investigated can be found the site specific field sampling plan (SFSP) and should be reviewed to supplement this site specific safety and health plan (SSHP). Potential contaminant sources at the Ranges at Iron Mountain Road and the Ranges at Bains Gap Road are primarily unknown, but may include nitroexplosives and metals. Lead in soil will be the most likely metal encountered since live fire was conducted at the ranges. Engineering controls (dust suppression) will be required where site activities generate visible dust emissions from vehicle and equipment operations performed off established roadways and within the surface danger zone or range fan firing direction and impact areas. The site and proposed sample location maps in the SFSP illustrate impact and range fan areas where the highest potential for lead contamination is anticipated.

Procedures contained in the Site Specific UXO Safety Plan shall be followed for all site activities associated with this investigation.

Table 2-1 contains the toxicological properties of chemicals anticipated or to be used at the Iron Mountain Road and Bains Gap Road Ranges.

### **2.2 General Site Information**

**Location of Site.** Fort McClellan (FTMC) is located in the foothills of the Appalachian Mountains of northeastern Alabama near the cities of Anniston and Weaver in Calhoun County. FTMC is approximately 60 miles northeast of Birmingham, 75 miles northwest of Auburn and

95 miles west of Atlanta, Georgia. FTMC consists of three main areas of government-owned and leased properties: Main Post, Pelham Range and Choccolocco Corridor (lease terminated in May 1998).

***Duration of Planned Employee Activity.*** Employee activity duration is anticipated to be less than two months.

### ***Site Descriptions***

***Skeet Range, Parcel 69(Q).*** The Skeet Range, Parcel 69(Q), was constructed in 1988 and was in operation until October 1998. Base personnel used the Skeet Range for clay skeet and trap shooting competition. Historically, ordnance fired at the Skeet Range consisted of shotgun rounds. The total site, including the range fan, occupies 13 acres. This area consists of two sets of concrete firing lines with 14 firing points. The eastern slope of Sunset Hill (approximately 100-feet high relative to the range floor) serves as the main impact zone for the range. The range also included three concrete block houses for throwing skeet, one concrete trap bunker, a range office, covered picnic/shelter areas, and latrines. All of the buildings and structures were removed from the site in 2001. Refer to Figure 4-1 in the SFSP for the Skeet Range, Parcel 69(Q) location.

***Range 19, Parcel 75(Q).*** The Range 19, Parcel 75(Q), Qualification Pistol Range, was constructed in 1976 and was in operation until October 1998. This range was used by U.S. Army personnel as the main range on base for small arms training. Historically, ordnance fired at the range has consisted mainly of 9-mm, .38-caliber, .45-caliber, and shotgun rounds. The total site, including the extensive range fan, consists of 1,529 acres. Because of the hilly terrain, contamination is not expected to be found within the range fans; however, XRF samples will be collected at strategic locations to address the potential for lead contamination within the range fans. The primary focus of this investigation is limited to approximately 5 to 7 acres. This includes an open firing area with gravel firing lines spaced at 7, 10, 25, and 35 meters. An eastern facing, three-tiered berm/hill, approximately 75 feet high, serves as the main impact zone. Nine outbuildings and supporting structures were included at Range 19. These buildings, which were removed in 1999, have been identified as the site office, latrines, a target house, two concrete pads/foundations (that may have been former structures), covered bleachers, and sheds. Site access is via a semicircular gravel road that connects the firing line area to Iron Mountain Road. Refer to Figure 5-1 in the SFSP for the Range 19, Parcel 75(Q) location.

**Range 13, Parcel 75(Q).** The Range 13, Parcel 71(Q), Qualification Pistol Range, was constructed in 1951 and was in operation until October 1998. This range was most recently used for small arms training by U.S. Marine Corps personnel stationed at FTMC. Historically, ordnance fired at the range consisted of 9-mm pistols and unidentified machine guns. In addition, FTMC Base Regulation 350-2 states .22- to .45-caliber pistols, .22-caliber rifles, and shotguns were also fired at Range 13. Spent rifle cartridge casings have also been found at Range 13, indicating some large caliber rifle firing may also have occurred. Interviews conducted by ESE with long-term FTMC employees indicate that the area around Range 12 and Range 13 was used as a machine gun range in the 1960s. A map, dated 1966, confirms the interview reports identifying a range in the vicinity of Range 12 and Range 13 as a “Machine Gun Range, 30 meter, Basic.”

The total site, including the range fan, encompasses 549 acres. Because of the hilly terrain of this range, contamination is not expected to be found within the range fan; however, XRF samples will be collected at strategic locations within the range fan to address the potential for lead contamination. The primary focus of this investigation is limited to approximately 5 acres. Range 13 included a 20-station firing line that was 120-feet long and was located 35 meters from an electrified target line. Both the firing lines and the electrified target lines were removed from the range in 1999. A small berm that served as the main impact zone for this portion of the range was located immediately behind the electrified target line. Approximately 150 feet behind the first small berm, a secondary berm is found that parallels the first berm. Both berms contain bullets and bullet fragments on their surface. Immediately to the south of the former covered firing line, depressions are found in the soil that indicate a second covered firing line previously existed. The approximate length of this structure was 180 feet. In addition to the depressions on the ground, two large signs are located on the berm wall that indicate the northern and southern limits of the range. The extent of bullets and bullet fragments on the berm surface correspond to the location of these signs.

Several outbuildings and supporting structures were included at Range 13. These buildings (which were removed in 1999) were identified as a target house, range tower, two concrete pads/foundations, and sheds. Site access is via a semi-circular gravel road that connects the firing line area to Iron Mountain Road on the north and Range 12, Parcel 70(Q) on the south. Refer to Figure 6-1 in the SFSP for the Range 13, Parcel 71(Q) location.

**Range 12, Parcel 70 (Q).** The Range 12, Parcel 70(Q), was constructed in 1951 and was in operation until October 1998. When the range was built it was first listed as “Range 14” and was described as a “1,000-inch range”. By 1967, the range was renamed Range 12, Competitive Pistol Range. Historically, ordnance fired at the range consisted of 9-mm pistols and unidentified machine guns. In addition, FTMC Base Regulation 350-2 states .22- to .45-caliber pistols, .22-caliber rifles, and shotguns were also fired at Range 12 (FTMC, 1991). Interviews conducted by ESE with long-term FTMC employees indicate that the area around Range 12 and Range 13 was used as a machine gun range in the 1960s. A map, dated 1966, confirms the interview reports identifying a range in the vicinity of Range 12 and Range 13 as a “Machine Gun Range, 30 meter, Basic.” Refer to Figure 7-1 in the SFSP for the Range 12, Parcel 70(Q) location. Because of the hilly terrain of this range, contamination is not expected within the range fan; however, XRF samples will be collected at strategic locations within the range fan to address the potential for lead contamination.

**Remount Creek Area.** The Remount Creek is located west of the Skeet Range and Ranges 12, 13, and 19. Remount Creek has several tributaries and flows from the south to the north. One tributary flows through the southwestern portion of the Skeet Range and one tributary flows through the northern portion of the Skeet Range. There are no other surface water features present within the boundaries of Ranges 12, 13, or 19. Surface water runoff follows the topography and generally flows west-northwest toward Remount Creek. Remount Creek flows north and joins Cane Creek in the central area of the Main Post.

**Range 21, Parcel 77(Q).** The Range 21, Parcel 77(Q), Field Fire Range, was in use from 1951 until installation closure in 1999. Historically, ordnance fired at the range consisted of M-16 rifles (5.56-mm) with tracer rounds. Unspecified small arms were used at this range prior to the advent of the M-16. This range is located within the impact area of the World War I Artillery Impact Area.

Target lines at 75 meters, 175 meters, and 300 meters (from the firing line) contained a series of electrified concrete coffins that were used to store and present pop-up targets during training exercises. The area between Cane Creek and the 175-meter target line is eroded and bullet fragments have been observed on the surface. This range is separated from Range 22 on the west by an unimproved road and a substantial soil berm. Cane Creek flows across the center of the range, west towards Range 22 through the dividing soil berm via a concrete culvert. Refer to Figure 9-1 in the SFSP for the Range 21, Parcel 77(Q) location.

Because of the hilly terrain of this range, contamination is not expected within the range fan; however, XRF samples will be collected at strategic locations within the range fan to address the potential for lead contamination.

**Range 22, Parcel 78(Q).** The Range 22, Parcel 78(Q), Zero Fire Range, was in use from 1961 until installation closure in 1999. Historically, ordnance fired at the range consisted of M-16 rifles (5.56-mm) with tracer rounds. This range is located within the impact area of the World War I Artillery Impact Area.

Range 22 contains a rocky soil berm that forms the main impact zone for the majority of the site. Cane Creek flows along the entire length of the berm. On the eastern portion of the range, the berm height is much reduced and bullets have impacted the wooded area beyond. To the west of this range, a large soil berm separates Range 22 from Range 27. Cane Creek flows west behind this berm. There are bullets and bullet fragments in the creek bed and along the creek banks. Refer to Figure 10-1 in the SFSP for the Range 22, Parcel 78(Q) location.

Because of the hilly terrain of this range, contamination is not expected within the range fan; however, XRF samples will be collected at strategic locations within the range fan to address the potential for lead contamination.

**Range 27, Parcel 85(Q).** The Range 27, Parcel 85(Q), was also known as the Stress Pistol and Shotgun Range. Refer to Figure 11-1 in the SFSP for the Range 27, Parcel 85(Q) location. Records are conflicting about the history of Range 27. The Archive Search Report states that the range “was built after World War II. It appears on the 1958 Range Map as Close Combat 1 & 2.” The Environmental Baseline Survey states that the range “has been in use from 1976 through the present. Ordnance fired at this range consisted of M-16 rifles (5.56-mm) between 1983 and 1989; and 9-mm pistol, 12-gauge shotgun, and .45-caliber pistol and machine gun from 1989 to present.” Base Range Control Regulation 350-2 also indicates that a repelling tower and obstacle course were located here and that .38-caliber pistol ordnance was used. This range has historically been subdivided into four main areas:

- Range 27A – Shooting House
- Range 27B – Live Fire and Maneuver Close Quarters Battle Range
- Range 27C – Stress Pistol and Shotgun Range
- Range 27D – Pistol and Submachine Gun Qualification Range

Range 27A is referred to as the “shooting house” or “tire house.” This structure is constructed of stacks of old tires that have been staked upright using 4 inch by 4 inch wood posts. The tires are filled with sand to form the walls of the rooms. It has a gravel floor and no roof. The Army used the shooting house for training exercises with live ammunition. Wooden doors and interior divider walls within the house have sustained heavy damage from training. Bullets are present in the tires and wood.

Range 27B consists of a flat, open area between two berms. To the south, Cane Creek flows west. A tributary begins in this area and flows west to meet Cane Creek west of Range 27.

Range 27C is a large, flat, open area separated from Range 27B on the east and Range 27D on the west by soil berms. As indicated in the FTMC Range Control Regulation 350-2, this area may have once contained a repelling tower and obstacle course. There are no structures remaining.

Range 27D is a narrow range on the far western portion of Range 27. High concentrations of bullets have been observed along the base of the unnamed hill to the south of the range and within Cane Creek itself (both are within the impact area for this portion of the range.)

Because of the hilly terrain of this range, contamination is not expected within the range fan; however, XRF samples will be collected at strategic locations within the range fan to address the potential for lead contamination.

**Cane Creek Area.** Cane Creek flows from east to west through the impact zones of Ranges 21, 22, and 27. Cane Creek has several tributaries in this area. Two of the main tributaries flow north in the southern portions of Range 21 and 22. One meets Cane Creek at Range 22 and the other meets further west, just south of Range 27. Two of the other main tributaries flow south under Bains Gap Road, with one joining Cane Creek in the impact zone for Range 21 and the other joining Cane Creek further west, between Range 22 and Range 27. Surface water runoff follows topography and generally flows west towards Cane Creek at these three ranges. Cane Creek flows west towards the central area of the Main Post.

**Pathways for Hazardous Substance Dispersion.** Possible pathways for hazardous substances in the area are soils, sediments, surfacewater and groundwater.

### 3.0 Personal Protective Equipment

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The work activities will begin in the following levels of protection. Also, a completed description of Level D, Modified Level D, and Level C PPE is provided.

Task	Initial Level of PPE
Initial UXO avoidance sweep and equipment staging	Level D
Utility clearance	Level D
Surface water, sediment and surface soil sampling	Level D
Subsurface soil and groundwater sampling	Modified Level D*
Monitoring well installation	Modified Level D*
Surveying	Level D

\*Initial level will be raised to Level C or higher if air monitoring results in the breathing zone (BZ) are greater than action levels.

**Level D.** The minimal level of protection that will be required of IT personnel at the site will be Level D. The following equipment will be used for Level D protection:

- Coveralls or work clothing
- Leather work gloves (when necessary)
- Steel-toed safety boots
- Safety glasses
- Hardhat
- Wear hearing protection (when working near/adjacent to operating equipment).

**Modified Level D.** The following equipment will be used for Level D-Modified protection:

- Permeable Tyvek, Kleenguard, or its equivalent
- Latex boot covers

- Nitrile, heavy work, or latex gloves
- Steel-toed safety boots
- Safety glasses
- Hardhat
- Hearing protection (when working near/adjacent to operating equipment).

Note: In addition to Modified Level D PPE, the operator of high-pressure water jetting equipment (pressure washers), shall wear metatarsal guards for protection of the legs and feet and a face shield for protection from splashes.

**Level C.** Level C protection will not be used unless air-monitoring data indicate the need for upgrade; however, the equipment shall be readily available on site. The following equipment will be used for Level C protection:

- National Institute of Occupational Safety and Health/Mine Safety and Health Administration-approved full-face, air-purifying respirators equipped with organic vapor/acid gas cartridge in combination with high-efficiency particulate air filter
- Hooded, Saran-coated Tyvek, taped at gloves, boots, and respirator
- Nitrile gloves (outer)
- Latex or lightweight nitrile gloves (inner)
- Neoprene steel-toed boots or polyvinyl chloride overbooties/steel-toed safety boots
- Hardhat
- Hearing protection (when working near/adjacent to operating equipment).

Note: In addition to Level C PPE, the operator of high-pressure water jetting equipment (pressure washers), shall wear metatarsal guards for protection of the legs and feet and a face shield for protection from splashes.

## 4.0 Site Monitoring

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The environmental contaminants of concern resulting from former activities on Ranges at Iron Mountain Road and the Ranges at Bains Gap Road are primarily unknown but based on land use history probably include nitroexplosives and lead.

Table 4-1 contains action levels for site monitoring on the Ranges at Iron Mountain Road and the Ranges at Bains Gap Road.

**Chemical.** The site safety and health officer or task geologist shall perform air monitoring during the performance of site activities and ground intrusive operations. A calibrated photo ionization detector (i.e., Hnu DL-101 or equivalent) organic vapor analyzer will be utilized to monitor the sampling locations and BZs to determine if any organic material may be present that would necessitate upgrading of the protection level. A calibrated combustible gas/oxygen indicator will be utilized to monitor the borehole, work areas and BZs to determine if any combustible/flammable levels may be present that would necessitate evacuation of the work area. A Miniram PDM-3 or equivalent aerosol monitor shall be used to monitor airborne dust since lead is a potential concern. Table 4-2 contains the air monitoring frequency and location for site monitoring at the Ranges on Iron Mountain Road and the Ranges at Bains Gap Road.

**Radiological.** Radiation hazards are not anticipated from previous site activities on Ranges at Iron Mountain Road and the Ranges at Bains Gap Road. However, the field screening for lead contamination within range fans using the NITON x-ray fluorescence (XRF) instrument requires general radiation awareness training. The XRF contains a cadmium <sup>109</sup>, americium <sup>241</sup>, and iron <sup>55</sup> sealed radioactive sources. Operators of the XRF shall be trained in the safe use of the instrument and follow all required manufacturers instructions. Leak detection testing within the last six months shall be performed on the XRF and certificates of analysis included in the shipping container. Required licensing documentation and storage requirements shall be enforced. Exposure to radiation is related to three factors: time, distance and shielding. Human exposure to radiation is typically measured in rems, or in one-thousandths of a rem, called millirems (mR). The allowable limit in the US for occupational exposure is 5,000 mR/year for a whole-body and 50,000 mR for shallow penetration of extremities. Exposure from a properly-used NITON will be less than 50 mR per year, even if the instrument is used 2,000 hours per year.

**Unexploded Ordnance.** UXO support for sampling activities are specified in the site-specific UXO safety plan developed for the Ranges at Iron Mountain Road and the Ranges at Bains Gap Road. The UXO specialists will perform UXO avoidance sweeps prior to moving the heavy equipment onto the site. During this operation, UXO on the surface will be detected and marked for avoidance during field operations. Additionally, downhole magnetometer surveys will be performed to detect metal objects in the path of sampling equipment or boring apparatus. The sampling/boring location will be moved to avoid subsurface metal objects. The practice of UXO avoidance shall be implemented for all intrusive activities.

If UXO is encountered, personnel will contact the site manager and UXO specialist immediately. Personnel will evacuate the immediate area and secure it.

## **5.0 Activity Hazard Analysis**

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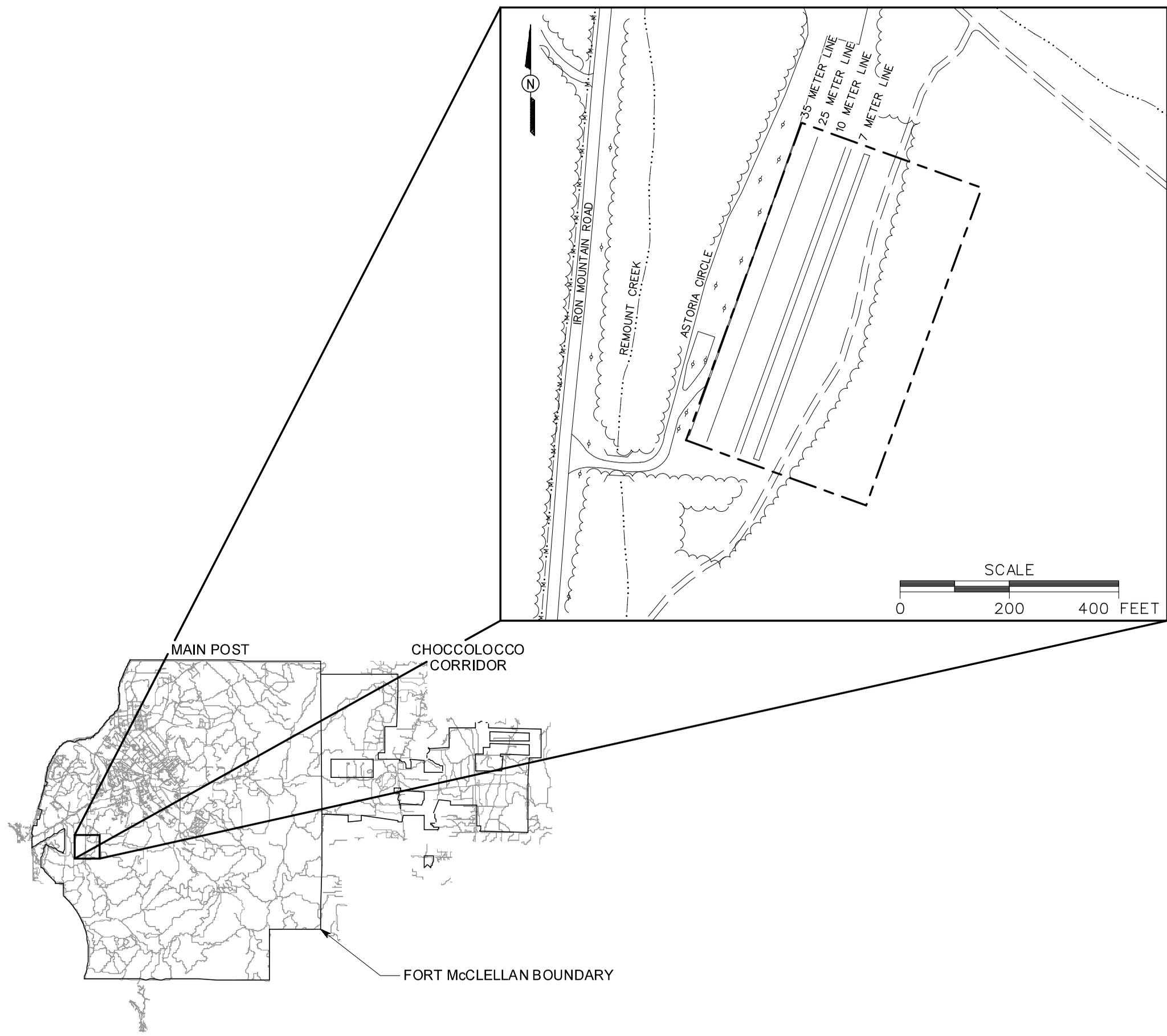
The attached activity hazard analysis (Table 5-1) is provided for the following activities:

- Initial UXO avoidance sweep and equipment staging.
- Installation of monitoring wells.
- Subsurface soil, groundwater, surface water and sediment sampling.
- Surveying
- Moving and shipping collected samples.
- Disposal of investigative derived waste (forklift operations).
- High-pressure water jetting operations.

All injuries and illnesses must be immediately reported to the site manager or the site safety and health officer, who will then notify off-site personnel and organizations as necessary.

If hospital care must be provided, the victim shall be treated at Northeast Regional Medical Center. Directions to the hospital from the Ranges at Iron Mountain Road and the Ranges at Bains Gap Road are provided in Figures 5-1 and 5-2, respectively.

DWG. NO.: ... \800486es.014  
 PROJ. NO.: 800486  
 INITIATOR: J. BOND  
 PROJ. MGR.: J. YACOUB  
 DRAFT. CHCK. BY:  
 ENGR. CHCK. BY: S. MORAN  
 DATE LAST REV.:  
 DRAWN BY:  
 STARTING DATE: 07/02/01  
 DRAWN BY: D. BOMAR  
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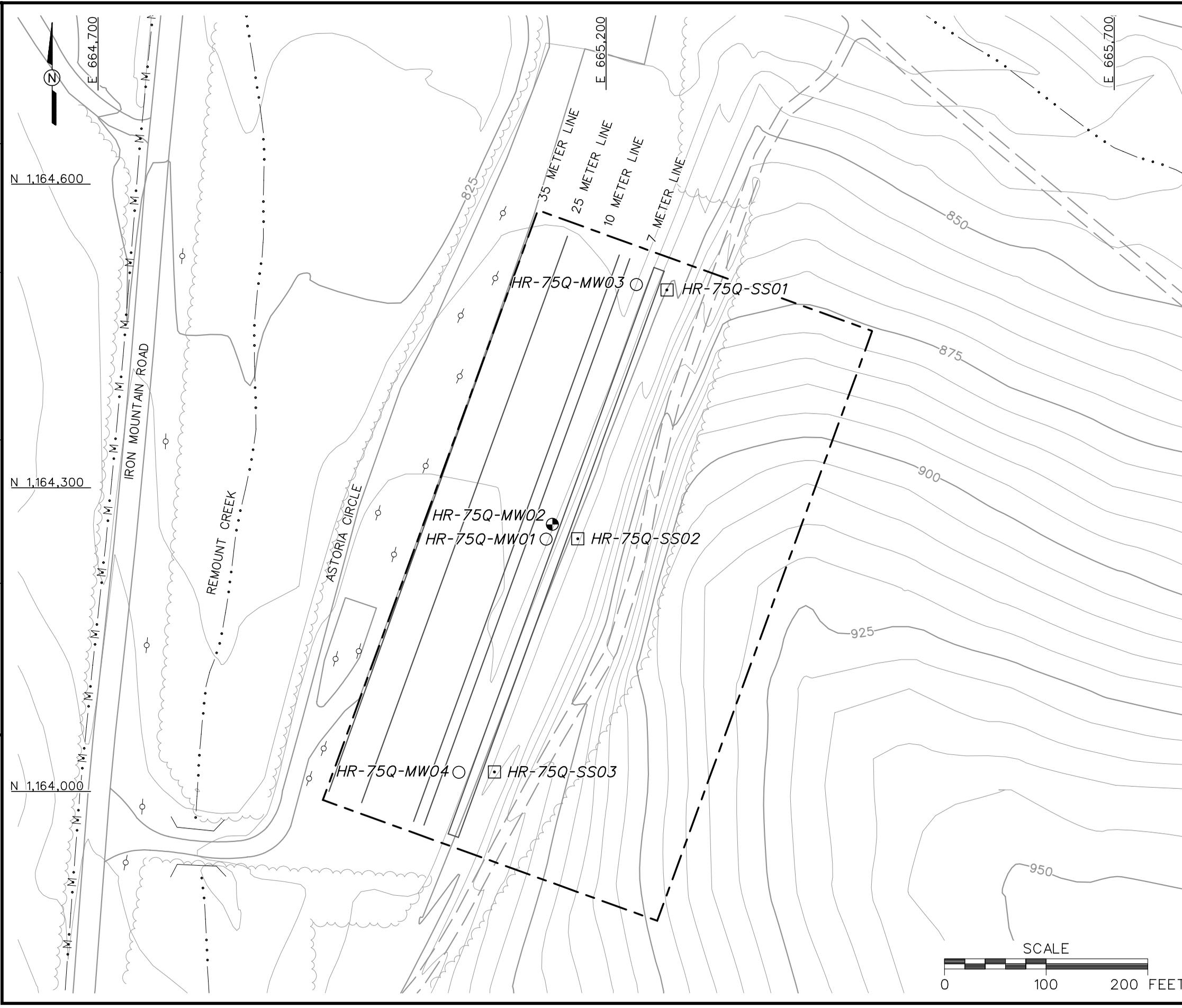
**LEGEND**

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TREES / TREELINE
- BOUNDARY OF FIRING LINE AND VISIBLE BULLET FRAGMENT IMPACTED AREAS
- CULVERT WITH HEADWALL
- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- UTILITY POLE

**FIGURE 5-1**  
**SITE LOCATION MAP**  
**RANGE 19**  
**PARCEL 75(Q)**

U. S. ARMY CORPS OF ENGINEERS  
 MOBILE DISTRICT  
 FORT McCLELLAN  
 CALHOUN COUNTY, ALABAMA  
 Contract No. DACA21-96-D-0018

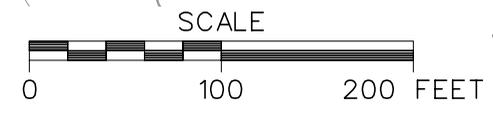
DWG. NO.: ... \800486es.013  
 PROJ. NO.: 800486  
 INITIATOR: J. BOND  
 PROJ. MGR.: J. YACOB  
 DRAFT. CHCK. BY:  
 ENGR. CHCK. BY: S. MORAN  
 DATE LAST REV.:  
 DRAWN BY:  
 STARTING DATE: 07/02/01  
 DRAWN BY: D. BOMAR  
 07/24/01  
 03:13:03 PM  
 DBILLING  
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- LEGEND**
- UNIMPROVED ROADS AND PARKING
  - PAVED ROADS AND PARKING
  - BUILDING
  - TREES / TREELINE
  - TOPOGRAPHIC CONTOURS (CONTOUR INTERVAL - 5 FOOT)
  - BOUNDARY OF FIRING LINE AND VISIBLE BULLET FRAGMENT IMPACTED AREAS
  - CULVERT WITH HEADWALL
  - SURFACE DRAINAGE / CREEK
  - MANMADE SURFACE DRAINAGE FEATURE
  - FENCE
  - UTILITY POLE
  - PROPOSED BEDROCK MONITORING WELL LOCATION
  - PROPOSED RESIDUUM MONITORING WELL LOCATION
  - PROPOSED SURFACE SOIL SAMPLE LOCATION

**FIGURE 5-2**  
**PROPOSED SAMPLE LOCATION MAP**  
**RANGE 19**  
**PARCEL 75(Q)**

U. S. ARMY CORPS OF ENGINEERS  
 MOBILE DISTRICT  
 FORT McCLELLAN  
 CALHOUN COUNTY, ALABAMA  
 Contract No. DACA21-96-D-0018



**ATTACHMENT I**

**MATERIAL SAFETY DATA SHEETS**

DOD Hazardous Materials Information System  
DoD 6050.5-L  
AS OF July 1998

FSC: 9650  
NIIN: 00F047010  
Manufacturer's CAGE: 2H104  
Part No. Indicator: A  
Part Number/Trade Name: ALL SHOTSHELL AMMUNITION & 8 GAL IND.

=====  
General Information  
=====

Item Name:  
Company's Name: REMINGTON ARMS CO INC SUB OF E I DUPONT DE NEMOURS  
Company's Street: INTERSTATE 1-40 AND REMINGTON RD  
Company's P. O. Box: N/K  
Company's City: LONOKE  
Company's State: AR  
Company's Country: US  
Company's Zip Code: 72086-5000  
Company's Emerg Ph #: 919-299-4032  
Company's Info Ph #: 919-299-4032  
Distributor/Vendor # 1:  
Distributor/Vendor # 1 Cage:  
Distributor/Vendor # 2:  
Distributor/Vendor # 2 Cage:  
Distributor/Vendor # 3:  
Distributor/Vendor # 3 Cage:  
Distributor/Vendor # 4:  
Distributor/Vendor # 4 Cage:  
Safety Data Action Code:  
Safety Focal Point: F  
Record No. For Safety Entry: 001  
Tot Safety Entries This Stk#: 001  
Status: SE  
Date MSDS Prepared: 15MAR91  
Safety Data Review Date: 28MAR96  
Supply Item Manager:  
MSDS Preparer's Name: W G BELL  
Preparer's Company: REMINGTON ARMS CO INC SUB OF E I DUPONT  
Preparer's St Or P. O. Box: INTERSTATE 1-40 AND REMINGTON RD  
Preparer's City: LONOKE  
Preparer's State: AR  
Preparer's Zip Code: 72086-5000  
Other MSDS Number:  
MSDS Serial Number: BZCDQ  
Specification Number:  
Spec Type, Grade, Class:  
Hazard Characteristic Code:  
Unit Of Issue:  
Unit Of Issue Container Qty:  
Type Of Container:  
Net Unit Weight:

Report for NIIN: 00F047010

NRC/State License Number:  
Net Explosive Weight:  
Net Propellant Weight-Ammo:  
Coast Guard Ammunition Code:

=====  
Ingredients/Identity Information  
=====

=====  
Proprietary: NO  
Ingredient: LEAD, INORGANIC LEAD (IARC CARC GROUP 2B) \*96-1\*  
Ingredient Sequence Number: 01  
Percent: N/K  
Ingredient Action Code:  
Ingredient Focal Point: F  
NIOSH (RTECS) Number: OF7525000  
CAS Number: 7439-92-1  
OSHA PEL: N/K  
ACGIH TLV: 0.15 MG/CUM  
Other Recommended Limit: N/K  
-----

Proprietary: NO  
Ingredient: LEAD COMPOUNDS, INORGANIC  
Ingredient Sequence Number: 02  
Percent: N/K  
Ingredient Action Code:  
Ingredient Focal Point: F  
NIOSH (RTECS) Number: 1000827LI  
CAS Number:  
OSHA PEL: N/K  
ACGIH TLV: N/K  
Other Recommended Limit: N/K  
-----

Proprietary: NO  
Ingredient: ARSENIC, ARSENICALS (HUMAN CARCINOGEN BY IARC, ANIMAL  
CARCINOGEN BY IARC - GROUP 1; CONFIRMED CARCINOGEN BY NTP) \*95-4\*  
Ingredient Sequence Number: 03  
Percent: N/K  
Ingredient Action Code:  
Ingredient Focal Point: F  
NIOSH (RTECS) Number: CG0525000  
CAS Number: 7440-38-2  
OSHA PEL: 0.5 MG/CUM  
ACGIH TLV: 0.2 MG/CUM  
Other Recommended Limit: N/K  
-----

Proprietary: NO  
Ingredient: ARSENIC COMPOUND  
Ingredient Sequence Number: 04  
Percent: N/K  
Ingredient Action Code:  
Ingredient Focal Point: F  
NIOSH (RTECS) Number: 1001249AC  
CAS Number:  
OSHA PEL: N/K

Report for NIIN: 00F047010

ACGIH TLV: N/K  
Other Recommended Limit: N/K  
-----

Proprietary: NO  
Ingredient: ANTIMONY  
Ingredient Sequence Number: 05  
Percent: N/K  
Ingredient Action Code:  
Ingredient Focal Point: F  
NIOSH (RTECS) Number: CC4025000  
CAS Number: 7440-36-0

OSHA PEL: 0.5 MG/CUM  
ACGIH TLV: 0.5 MG/CUM  
Other Recommended Limit: N/K

-----  
Proprietary: NO  
Ingredient: ANTIMONY COMPOUND  
Ingredient Sequence Number: 06  
Percent: N/K  
Ingredient Action Code:  
Ingredient Focal Point: F  
NIOSH (RTECS) Number: 1001599AC  
CAS Number:  
OSHA PEL: N/K  
ACGIH TLV: N/K  
Other Recommended Limit: N/K

-----  
Proprietary: NO  
Ingredient: BARIUM (SOLUBLE COMPOUNDS) \*95-4\*  
Ingredient Sequence Number: 07  
Percent: N/K  
Ingredient Action Code:  
Ingredient Focal Point: F  
NIOSH (RTECS) Number: CQ8370000  
CAS Number: 7440-39-3  
OSHA PEL: 0.5 MG/CUM  
ACGIH TLV: 0.5 MG/CUM  
Other Recommended Limit: N/K

-----  
Proprietary: NO  
Ingredient: BARIUM COMPOUND  
Ingredient Sequence Number: 08  
Percent: N/K  
Ingredient Action Code:  
Ingredient Focal Point: F  
NIOSH (RTECS) Number: 1006925BC  
CAS Number:  
OSHA PEL: N/K  
ACGIH TLV: N/K  
Other Recommended Limit: N/K

-----  
Proprietary: NO  
Ingredient: NITROGLYCERINE, NITRIN, NITROL

Report for NIIN: 00F047010

Ingredient Sequence Number: 09  
Percent: N/K  
Ingredient Action Code:  
Ingredient Focal Point: F  
NIOSH (RTECS) Number: QX2100000  
CAS Number: 55-63-0  
OSHA PEL: 2 MG/CUM (SKIN)  
ACGIH TLV: 0.46 MG/CUM  
Other Recommended Limit: 0.05 PPM

=====  
Physical/Chemical Characteristics  
=====

Appearance And Odor: GRAYISH, GRAY, SILVERY MATERIAL-NO ODOR  
Boiling Point: N/R  
Melting Point: N/R  
Vapor Pressure (MM Hg/70 F): N/R

Vapor Density (Air=1): N/R  
 Specific Gravity: N/R  
 Decomposition Temperature: N/K  
 Evaporation Rate And Ref: N/R  
 Solubility In Water: N/K  
 Percent Volatiles By Volume: N/K  
 Viscosity:  
 pH: N/K  
 Radioactivity:  
 Form (Radioactive Matl):  
 Magnetism (Milligauss):  
 Corrosion Rate (IPY): N/K  
 Autoignition Temperature:

=====  
 Fire and Explosion Hazard Data  
 =====

Flash Point: N/R  
 Flash Point Method: N/P  
 Lower Explosive Limit: N/R  
 Upper Explosive Limit: N/R  
 Extinguishing Media: WATER  
 Special Fire Fighting Proc: EVACUATE IMMEDIATE AREA & DELUGE W/WATER, WEAR PROTECTIVE CLOTHING FOR SHRAPNEL. MATERIAL IS SELF OXIDIZING; FLOOD W/WATER TO FIGHT FIRE & COOL SHELLS.  
 Unusual Fire And Expl Hazrds: SHELLS WILL DETONATE WHEN EXPOSED TO FLAME & HIGH TEMPS.

=====  
 Reactivity Data  
 =====

Stability: YES  
 Cond To Avoid (Stability): FLAMES, SPARKS, HIGH TEMPS ABOVE 266F.  
 Materials To Avoid: STRONG MINERAL ACIDS & ALKALIS.  
 Hazardous Decomp Products: OXIDES OF CARBON, NITROGEN & LEAD FUMES.  
 Hazardous Poly Occur: NO  
 Conditions To Avoid (Poly): HEAT, FIRE, STATIC, FRICTION & PERCUSSION.

Report for NIIN: 00F047010

=====  
 Health Hazard Data  
 =====

LD50-LC50 Mixture:  
 Route Of Entry - Inhalation: NO  
 Route Of Entry - Skin: NO  
 Route Of Entry - Ingestion: NO  
 Health Haz Acute And Chronic: ANEMIA, FATIGUE, NOCTORIA, EMBRYOTOXIN, WEAKNESS, MENTAL CONFUSION, PALLOR, HEADACHE, NAUSEA, CUTS & ABRASIONS.  
 Carcinogenicity - NTP: YES  
 Carcinogenicity - IARC: YES  
 Carcinogenicity - OSHA: NO  
 Explanation Carcinogenicity: SEE INGREDIENTS.  
 Signs/Symptoms Of Overexp: ANEMIA, FATIGUE, NOCTORIA, EMBRYOTOXIN, WEAKNESS, MENTAL CONFUSION, PALLOR, HEADACHE, NAUSEA, CUTS & ABRASIONS.  
 Med Cond Aggravated By Exp: GI TRACT, KIDNEYS, BLOOD & CNS.  
 Emergency/First Aid Proc: SKIN: FLUSH W/WATER. OBTAIN MEDICAL ATTENTION IN ALL CASES.

=====  
 Precautions for Safe Handling and Use  
 =====

Steps If Matl Released/Spill: USE NON-SPARKING EQUIPMENT TO CLEANUP & STORE SHELLS-AVOID IGNITION SOURCES.

Neutralizing Agent: N/K  
Waste Disposal Method: MATERIAL MAY BE BURNED IAW/FEDERAL, STATE & LOCAL REGULATIONS. UN0012.  
Precautions-Handling/Storing: USE NON-SPARKING EQUIPMENT TO CLEANUP & STORE SHELLS-AVOID IGNITION SOURCES. USE HEARING PROTECTION WHEN DISCHARGING CARTRIDGES.  
Other Precautions: LABEL CONTAINERS-ORM D; WEAR GLOVES & SHRAPNEL PROTECTION.

=====  
Control Measures  
=====

Respiratory Protection: USE SCBA IF FUMES ARE PRESENT.  
Ventilation: NOT REQUIRED  
Protective Gloves: N/R  
Eye Protection: SAFETY GLASSES WHEN SHOOTING.  
Other Protective Equipment: USE HEARING PROTECTION WHEN DISCHARGING CARTRIDGES.  
Work Hygienic Practices:  
Suppl. Safety & Health Data:

=====  
Transportation Data  
=====

Transportation Action Code:  
Transportation Focal Point:  
Trans Data Review Date:  
DOT PSN Code:  
DOT Symbol:  
DOT Proper Shipping Name:  
DOT Class:  
DOT ID Number:

Report for NIIN: 00F047010

DOT Pack Group:  
DOT Label:  
DOT/DoD Exemption Number:  
IMO PSN Code:  
IMO Proper Shipping Name:  
IMO Regulations Page Number:  
IMO UN Number:  
IMO UN Class:  
IMO Subsidiary Risk Label:  
IATA PSN Code:  
IATA UN ID Number:  
IATA Proper Shipping Name:  
IATA UN Class:  
IATA Subsidiary Risk Class:  
IATA Label:  
AFI PSN Code:  
AFI Symbols:  
AFI Prop. Shipping Name:  
AFI Class:  
AFI ID Number:  
AFI Pack Group:  
AFI Label:  
AFI Special Prov:  
AFI Basic Pac Ref:  
MMAC Code:  
N.O.S. Shipping Name:  
Additional Trans Data:

Disposal Data

```

=====
Disposal Data Action Code:
Disposal Data Focal Point:
Disposal Data Review Date:
Rec # For This Disp Entry:
Tot Disp Entries Per NSN:
Landfill Ban Item:
Disposal Supplemental Data:
1st EPA Haz Wst Code New:
1st EPA Haz Wst Name New:
1st EPA Haz Wst Char New:
1st EPA Acute Hazard New:
2nd EPA Haz Wst Code New:
2nd EPA Haz Wst Name New:
2nd EPA Haz Wst Char New:
2nd EPA Acute Hazard New:
3rd EPA Haz Wst Code New:
3rd EPA Haz Wst Name New:
3rd EPA Haz Wst Char New:
3rd EPA Acute Hazard New:

```

Report for NIIN: 00F047010

Label Data

```

=====
Label Required: YES
Technical Review Date:
Label Date:
MFR Label Number:
Label Status: G
Common Name: ALL SHOTSHELL AMMUNITION & 8 GAL IND.
Chronic Hazard: N/P
Signal Word:
Acute Health Hazard-None:
Acute Health Hazard-Slight:
Acute Health Hazard-Moderate:
Acute Health Hazard-Severe:
Contact Hazard-None:
Contact Hazard-Slight:
Contact Hazard-Moderate:
Contact Hazard-Severe:
Fire Hazard-None:
Fire Hazard-Slight:
Fire Hazard-Moderate:
Fire Hazard-Severe:
Reactivity Hazard-None:
Reactivity Hazard-Slight:
Reactivity Hazard-Moderate:
Reactivity Hazard-Severe:
Special Hazard Precautions: ANEMIA, FATIGUE, NOCTORIA, EMBRYOTOXIN,
WEAKNESS, MENTAL CONFUSION, PALLOR, HEADACHE, NAUSEA, CUTS & ABRASIONS.
ANEMIA, FATIGUE, NOCTORIA, EMBRYOTOXIN, WEAKNESS, MENTAL CONFUSION, PALLOR,
HEADACHE, NAUSEA, CUTS & ABRASIONS.
Protect Eye:
Protect Skin:
Protect Respiratory:
Label Name: REMINGTON ARMS CO INC SUB OF E I DUPONT DE
NEMOURS
Label Street: INTERSTATE 1-40 AND REMINGTON RD

```

037251

Label P.O. Box: N/K  
Label City: LONOKE  
Label State: AR  
Label Zip Code: 72086-5000  
Label Country: US  
Label Emergency Number: 919-299-4032  
Year Procured:

DOD Hazardous Materials Information System  
DoD 6050.5-L  
AS OF July 1998

FSC: 9650  
NIIN: 00F047038  
Manufacturer's CAGE: 2H104  
Part No. Indicator: A  
Part Number/Trade Name: LEAD SHOT, PLATED & UNPLATED

=====

General Information

=====

Item Name:  
Company's Name: REMINGTON ARMS CO INC SUB OF E I DUPONT DE NEMOURS  
Company's Street: INTERSTATE 1-40 AND REMINGTON RD  
Company's P. O. Box: N/K  
Company's City: LONOKE  
Company's State: AR  
Company's Country: US  
Company's Zip Code: 72086-5000  
Company's Emerg Ph #: 919-299-4032  
Company's Info Ph #: 919-299-4032  
Distributor/Vendor # 1:  
Distributor/Vendor # 1 Cage:  
Distributor/Vendor # 2:  
Distributor/Vendor # 2 Cage:  
Distributor/Vendor # 3:  
Distributor/Vendor # 3 Cage:  
Distributor/Vendor # 4:  
Distributor/Vendor # 4 Cage:  
Safety Data Action Code:  
Safety Focal Point: F  
Record No. For Safety Entry: 001  
Tot Safety Entries This Stk#: 001  
Status: SE  
Date MSDS Prepared: 21MAR91  
Safety Data Review Date: 02APR96  
Supply Item Manager:  
MSDS Preparer's Name: W G BELL  
Preparer's Company: REMINGTON ARMS CO INC SUB OF E I DUPONT  
Preparer's St Or P. O. Box: INTERSTATE 1-40 AND REMINGTON RD  
Preparer's City: LONOKE  
Preparer's State: AR  
Preparer's Zip Code: 72086-5000  
Other MSDS Number:  
MSDS Serial Number: BZCDX  
Specification Number:  
Spec Type, Grade, Class: .  
Hazard Characteristic Code:  
Unit Of Issue:  
Unit Of Issue Container Qty:  
Type Of Container:  
Net Unit Weight:

Report for NIIN: 00F047038

NRC/State License Number:  
Net Explosive Weight:  
Net Propellant Weight-Ammo:  
Coast Guard Ammunition Code:

=====

Ingredients/Identity Information

=====

Proprietary: NO  
 Ingredient: LEAD, INORGANIC LEAD (IARC CARC GROUP 2B) \*96-1\*  
 Ingredient Sequence Number: 01  
 Percent: 93-100  
 Ingredient Action Code:  
 Ingredient Focal Point: F  
 NIOSH (RTECS) Number: OF7525000  
 CAS Number: 7439-92-1  
 OSHA PEL: 0.05 MG/M3  
 ACGIH TLV: 0.15 MG/CUM  
 Other Recommended Limit: N/K

-----

Proprietary: NO  
 Ingredient: ANTIMONY  
 Ingredient Sequence Number: 02  
 Percent: 0-7  
 Ingredient Action Code:  
 Ingredient Focal Point: F  
 NIOSH (RTECS) Number: CC4025000  
 CAS Number: 7440-36-0  
 OSHA PEL: 0.5 MG/CUM  
 ACGIH TLV: 0.5 MG/CUM  
 Other Recommended Limit: N/K

-----

Proprietary: NO  
 Ingredient: ARSENIC, ARSENICALS (HUMAN CARCINOGEN BY IARC, ANIMAL  
 CARCINOGEN BY IARC - GROUP 1; CONFIRMED CARCINOGEN BY NTP) \*95-4\*  
 Ingredient Sequence Number: 03  
 Percent: 0-3  
 Ingredient Action Code:  
 Ingredient Focal Point: F  
 NIOSH (RTECS) Number: CG0525000  
 CAS Number: 7440-38-2  
 OSHA PEL: 0.2 MG/CUM  
 ACGIH TLV: 0.2 MG/CUM  
 Other Recommended Limit: N/K

-----

Proprietary: NO  
 Ingredient: COPPER (DUST & MIST), BRONZE POWDER \*96-1\*  
 Ingredient Sequence Number: 04  
 Percent: 0-1  
 Ingredient Action Code:  
 Ingredient Focal Point: F  
 NIOSH (RTECS) Number: GL5325000  
 CAS Number: 7440-50-8  
 OSHA PEL: 0.1 MG(CU)/M3 (FUME)

Report for NIIN: 00F047038

ACGIH TLV: 0.2 MG/M3 (FUME)  
 Other Recommended Limit: 1 MG(CU)/M3 (DUST)

-----

Proprietary: NO  
 Ingredient: NICKEL (SUSPECTED ANIMAL/HUMAN CARCINOGEN BY IARC GROUP 2B,  
 SUSPECTED CARCINOGEN BY NTP) \*96-1\*  
 Ingredient Sequence Number: 05  
 Percent: 0-1  
 Ingredient Action Code:  
 Ingredient Focal Point: F  
 NIOSH (RTECS) Number: QR5950000

CAS Number: 7440-02-0  
 OSHA PEL: 1 MG/CUM  
 ACGIH TLV: 0.05 MG/CUM IC  
 Other Recommended Limit: 1 MG/CUM

=====

Physical/Chemical Characteristics

=====

Appearance And Odor: COPPER, SILVER/DULL BLACKISH GRAY PELLETS W/NO ODOR.  
 Boiling Point: 2550F  
 Melting Point: 480-610F  
 Vapor Pressure (MM Hg/70 F): N/K  
 Vapor Density (Air=1): N/K  
 Specific Gravity: 11-11.3  
 Decomposition Temperature: N/K  
 Evaporation Rate And Ref: N/K  
 Solubility In Water: INSOLUBLE  
 Percent Volatiles By Volume: N/K  
 Viscosity:  
 pH: N/K  
 Radioactivity:  
 Form (Radioactive Matl):  
 Magnetism (Milligauss):  
 Corrosion Rate (IPY): N/K  
 Autoignition Temperature:

=====

Fire and Explosion Hazard Data

=====

Flash Point: N/R  
 Flash Point Method: N/P  
 Lower Explosive Limit: N/R  
 Upper Explosive Limit: N/R  
 Extinguishing Media: DRY CHEMICAL/DIOXIDE. DON'T USE WATER WHERE MOLTEN METAL IS PRESENT.  
 Special Fire Fighting Proc: USE FULL BODY PROTECTIVE CLOTHING W/FULL-FACEPIECE & SCBA OPERATED IN POSITIVE-PRESSURE MODE.  
 Unusual Fire And Expl Hazrds: MOLTEN METALS PRODUCE FUME, VAPOR/DUST & MAY BE TOXIC &/RESPIRATORY IRRITANTS. PRODUCT /DUST, CAN REACT VIGOROUSLY W/ STRONG OXIDIZING AGENTS.

Report for NIIN: 00F047038

=====

Reactivity Data

=====

Stability: YES  
 Cond To Avoid (Stability): N/R  
 Materials To Avoid: STRONG OXIDIZERS, OXIDIZING AGENTS  
 Hazardous Decomp Products: HIGH TEMP: HEAVY METAL FUME, VAPOR/DUST. STRONG OXIDIZERS: HYDROGEN GAS.  
 Hazardous Poly Occur: NO  
 Conditions To Avoid (Poly): N/R

=====

Health Hazard Data

=====

LD50-LC50 Mixture:  
 Route Of Entry - Inhalation: NO  
 Route Of Entry - Skin: NO  
 Route Of Entry - Ingestion: NO  
 Health Haz Acute And Chronic: INHALATION: IRRITATING TO THE RESPIRATORY SYSTEM. SKIN/EYES: IRRITATION. INGESTION: MAY BE ABSORBED BY THE DIGESTIVE SYSTEM & CAN RESULT IN BOTH ACUTE & CHRONIC OVEREXPOSURE.

Carcinogenicity - NTP: YES

Carcinogenicity - IARC: YES

Carcinogenicity - OSHA: NO

Explanation Carcinogenicity: SEE INGREDIENTS

Signs/Symptoms Of Overexp: IRRITATION, WEAKNESS, VOMITING, LOSS OF APPETITE, UNCOORDINATED BODY MOVEMENTS, CONVULSIONS, STUPOR, BLOODY STOOLS, COMA, INSOMNIA, HYPERTENSION, METALLIC TASTE IN MOUTH, ANEMIA, CONSTIPATION, HEADACHE, MUSCLE & JOINT PAIN, NEUROMUSCULAR DYSFUNCTION, PARALYSIS & ENCEPHALOPATHY.

Med Cond Aggravated By Exp: N/K

Emergency/First Aid Proc: EYES: FLUSH W/COPIOUS AMOUNTS OF WATER. SKIN: WASH W/SOAP & WATER. INHALATION: REMOVE TO FRESH AIR. OBTAIN MEDICAL ATTENTION IN ALL CASES. NOTE TO PHYSICIAN: LEAD & INORGANIC COMPOUNDS ARE NEUROTOXINS WHICH MAY PRODUCE PERIPHERAL NEUROPATHY. ARSENIC MAY BE A PULMONARY CARCINOGEN. CHRONIC EFFECTS OF ANTIMONY INGESTIN MAY RESEMBLE THOSE OF ARSENIC. (SEE SUPP)

=====

Precautions for Safe Handling and Use

=====

Steps If Matl Released/Spill: DUST SHOULD BE VACUUMED/WET SWEEPED WHERE VACUUMING ISN'T FEASIBLE. PARTICULATE MATTER SHOULD BE STORED IN DRY CONTAINERS FOR LATER DISPOSAL. DON'T USE COMPRESSED AIR/DRY SWEEPING AS MEANS OF CLEANING. KEEP AWAY FROM CHILDREN.

Neutralizing Agent: N/R

Waste Disposal Method: DISPOSE OF TOXIC SUBSTANCES & HAZARDOUS WASTES IAW/FEDERAL, STATE & LOCAL REGULATIONS.

Precautions-Handling/Storing: N/K

Other Precautions: N/K

=====

Control Measures

=====

Respiratory Protection: IF USED COMMERCIAL/INDUSTRIALLY WHERE EXPOSURES EXCEEDS PERMISSIBLE EXPOSURE/THRESHOLD LIMITS, USE RESPIRATORY PROTECTION/

Report for NIIN: 00F047038

LEAD & INORGANIC ARSENIC. IF DOMESTICALLY REMELTED, HIGH EFFICIENCY RESPIRATORS ARE RECOMMENDED.

Ventilation: REQUIRED

Protective Gloves: REQUIRED

Eye Protection: FACESHIELD/VENTED GOGGLES (MOLTEN METAL)

Other Protective Equipment: COVERALLS, FULL BODY CLOTHING, HARD HAT, SAFETY BOOTS & OTHER SAFETY EQUIPMENT.

Work Hygienic Practices:

Suppl. Safety & Health Data:

=====

Transportation Data

=====

Transportation Action Code:

Transportation Focal Point:

Trans Data Review Date:

DOT PSN Code:

DOT Symbol:

DOT Proper Shipping Name:

DOT Class:

DOT ID Number:

DOT Pack Group:

DOT Label:

DOT/DoD Exemption Number:

IMO PSN Code:

IMO Proper Shipping Name:

IMO Regulations Page Number:  
 IMO UN Number:  
 IMO UN Class:  
 IMO Subsidiary Risk Label:  
 IATA PSN Code:  
 IATA UN ID Number:  
 IATA Proper Shipping Name:  
 IATA UN Class:  
 IATA Subsidiary Risk Class:  
 IATA Label:  
 AFI PSN Code:  
 AFI Symbols:  
 AFI Prop. Shipping Name:  
 AFI Class:  
 AFI ID Number:  
 AFI Pack Group:  
 AFI Label:  
 AFI Special Prov:  
 AFI Basic Pac Ref:  
 MMAC Code:  
 N.O.S. Shipping Name:  
 Additional Trans Data:

=====

Disposal Data

=====

Disposal Data Action Code:  
 Disposal Data Focal Point:  
 Disposal Data Review Date:

Report for NIIN: 00F047038

Rec # For This Disp Entry:  
 Tot Disp Entries Per NSN:  
 Landfill Ban Item:  
 Disposal Supplemental Data:  
 1st EPA Haz Wst Code New:  
 1st EPA Haz Wst Name New:  
 1st EPA Haz Wst Char New:  
 1st EPA Acute Hazard New:  
 2nd EPA Haz Wst Code New:  
 2nd EPA Haz Wst Name New:  
 2nd EPA Haz Wst Char New:  
 2nd EPA Acute Hazard New:  
 3rd EPA Haz Wst Code New:  
 3rd EPA Haz Wst Name New:  
 3rd EPA Haz Wst Char New:  
 3rd EPA Acute Hazard New:

=====

Label Data

=====

Label Required: YES  
 Technical Review Date:  
 Label Date:  
 MFR Label Number:  
 Label Status: G  
 Common Name: LEAD SHOT, PLATED & UNPLATED  
 Chronic Hazard: N/P  
 Signal Word:  
 Acute Health Hazard-None:  
 Acute Health Hazard-Slight:  
 Acute Health Hazard-Moderate:

Acute Health Hazard-Severe:

Contact Hazard-None:

Contact Hazard-Slight:

Contact Hazard-Moderate:

Contact Hazard-Severe:

Fire Hazard-None:

Fire Hazard-Slight:

Fire Hazard-Moderate:

Fire Hazard-Severe:

Reactivity Hazard-None:

Reactivity Hazard-Slight:

Reactivity Hazard-Moderate:

Reactivity Hazard-Severe:

Special Hazard Precautions: INHALATION: IRRITATING TO THE RESPIRATORY SYSTEM. SKIN/EYES: IRRITATION. INGESTION: MAY BE ABSORBED BY THE DIGESTIVE SYSTEM & CAN RESULT IN BOTH ACUTE & CHRONIC OVEREXPOSURE. IRRITATION, WEAKNESS, VOMITING, LOSS OF APPETITE, UNCOORDINATED BODY MOVEMENTS, CONVULSIONS, STUPOR, BLOODY STOOLS, COMA, INSOMNIA, HYPERTENSION, METALLIC TASTE IN MOUTH, ANEMIA, CONSTIPATION, HEADACHE, MUSCLE & JOINT PAIN, NEUROMUSCULAR DYSFUNCTION, PARALYSIS & ENCEPHALOPATHY.

Protect Eye:

Protect Skin:

Protect Respiratory:

Report for NIIN: 00F047038

Label Name: REMINGTON ARMS CO INC SUB OF E I DUPONT DE NEMOURS

Label Street: INTERSTATE 1-40 AND REMINGTON RD

Label P.O. Box: N/K

Label City: LONOKE

Label State: AR

Label Zip Code: 72086-5000

Label Country: US

Label Emergency Number: 919-299-4032

Year Procured: