

## **Site-Specific Field Sampling Plan Addendum**

**Site Investigation at Ranges West of Iron Mountain Road,  
Parcels 181(7), 194(7), 518(7), 73Q-X, 91Q-X, 114Q-X, 115Q,  
116Q-X, 117Q-X, 129Q-X, 151Q, 200Q, 201Q, 228Q, 229Q-X,  
231Q, 232Q-X, Washington Tank Range, and 1950 Rocket  
Launcher Range**

**Fort McClellan,  
Calhoun County, Alabama**

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Contract No. DACA21-96-D-0018  
IT Project Nos. 773191/796887**

**March 2001**

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## **1.0 Introduction**

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Recent revisions to the U.S. Army Corps of Engineers (USACE), July 1999, Archives Search Report, Maps (ASR), Fort McClellan, Anniston, Alabama has provided additional information regarding the use and orientation at the ranges described in the Final Site-Specific Sampling Plan (SFSP) for the Ranges West of Iron Mountain Road (IT Corporation [IT], 2000a). Based on discussions with the Fort McClellan Base Realignment and Closure Cleanup Team, this addendum has been prepared to describe the recent revisions to the ASR and additional field activities to be conducted to address areas these revisions indicate were used at Ranges. This SFSP addendum includes revised Figures 1-2, 1-3, 1-4, 1-18, 1-19, 1-20, and 4-1 from the final SFSP for Ranges West of Iron Mountain Road (IT Corporation [IT], 2000a). These figures have been updated to show revised dimensions of Area 45, Parcel 232Q-X, as presented in the ASR (USACE, 1999). Also, Figure 4-1 has been revised to show four additional proposed surface soil samples to be collected in the southeastern portion of Area 45, Parcel 232Q-X. Tables 1 and 2 list the additional surface soil samples to be collected in Area 45, Parcel 232Q-X.

## **2.0 Area 45, Parcel 232Q-X**

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The first revision to the figures increased the size of Area 45, Parcel 232Q-X to include additional area south and adjacent to Summerall Gate Road, on the west and east of Iron Mountain Road (Figures 1-2, 1-3, 1-4, 1-18, 1-19, 1-20 and 4-1). This increased area for Area 45, Parcel 232Q-X is part of the Combat Range No. 2, which was not previously shown in the figures for final SFSP for Ranges West of Iron Mountain Road.

According to the ASR, Combat Range No. 2 was built during the Inter-War period. Initial use of the combat range is unknown (USACE, 1999). During World War II, Combat Range No. 2 was divided into other uses including a rocket range, a machine gun range, and two rifle ranges. By 1958, all ranges in this area were closed or abandoned (USACE, 1999).

The second revision presented on Figures 1-3 and 4-1 shows a range fan for two rifle grenade ranges, because the ASR only shows a single range fan. These rifle grenade ranges were used during World War II. A 1950 range map shows a single range with new orientation (USACE, 1999). The ranges were both abandoned by 1958. During a site visit by the ASR team, remnants of World War II vintage rifle grenades were found northeast of Range 19 on the south side of an old service road (USACE, 1999).

The rifle grenade range fan encompasses a large portion of the range fan for the Former Skeet Range, Parcel 69Q. The Former Skeet Range is being investigated separately by IT under the Engineering Evaluation/Cost Analysis (EE/CA) for Ranges at Iron Mountain Road (IT, 2000b). The locations of soil samples at the Former Skeet Range are shown on Figure 4-1 for reference only.

Just southwest of the rifle grenade range fan is Former Rifle Grenade Range, Parcel 221Q-X. The site is being investigated under a separate site investigation work plan by IT (IT, 2001). Parcel 221Q-X is a 5.23 acre area, approximately 500 feet north of Former Range 19, Qualification Pistol Range, Parcel 75Q and immediately south of the Former Skeet Range, Parcel 69Q (Figures 1-3 and 4-1). Parcel 221Q-X is bounded to the south and divided by a service road that connects to Iron Mountain Road. It is possible that this is one of the two rifle grenade ranges referenced in the ASR (USACE, 1999). However, Parcel 221Q-X is not within the range fan shown on Plate 10 of the ASR (USACE, 1999). The locations of soil samples at the Former Rifle Grenade Range, Parcel 221Q-X are shown on revised Figure 4-1 for reference only.

### **3.0 Field Activities**

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In addition to the original samples proposed in the Ranges West of Iron Mountain Road SFSP (IT, 2000a), four additional surface soil samples will be collected from the rifle grenade fan area shown on the revised Figure 4-1. These samples will be collected outside of the area included in the EE/CA investigation for the Former Skeet Range, Parcel 69Q. The four surface soil samples will be analyzed for the following parameters in accordance with Section 4.5 of the Ranges West of Iron Mountain Road SFSP (IT, 2000a):

- Target Analyte List Metals - Method 6010B/7000.
- Nitroexplosives - Method 8330
- Perchlorate - Method 314.

#### **3.1 Surface Soil Samples**

The surface soil sampling rationale are listed in the attached Table 1. Proposed sampling locations are shown in the revised Figure 4-1. Surface soil sample designations and required QA/QC sample requirements are summarized in the Table 2. The final sample locations will be determined in the field by the on-site geologist, based on actual field conditions. Surface soil samples will be collected as specified in Section 4.2 of the Ranges West of Iron Mountain Road SFSP (IT, 2000a).

Investigative-derived waste generated during sampling activities will be managed in accordance with the procedures outlined Section 4.3 of the Ranges West of Iron Mountain Road SFSP (IT, 2000a).

### **3.2 Safety and Health**

The presence of unexploded ordnance is possible at the Ranges West of Iron Mountain Road. Therefore, IT will conduct UXO avoidance activities as outlined in Site-Specific UXO Safety Plan Attachment included as part of the work plan for the site investigation at Ranges West of Iron Mountain Road (IT, 2000a) and Appendix E of the installation-wide sampling and analysis plan. In addition, all field activities for the work specified in this addendum will be conducted in accordance with the procedures presented in the Site-Specific Health and Safety Plan Attachment included as part of the Ranges West of Iron Mountain Road SFSP (IT, 2000a).

### **3.3 Schedule**

IT will include the additional field sampling activities described in this addendum as part of the scheduled site investigation activities for the Ranges West Of Iron Mountain Road (IT, 2000a).

## **4.0 References**

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IT Corporation (IT), 2000a, *Site Investigation at, Ranges West of Iron Mountain Road, Parcels 181(7), 194(7), 518 (7), 73Q-X, 91Q-X, 114Q-X, 115Q, 116Q-X, 117Q-X, 129Q-X, 151Q, 200Q, 201Q, 228Q, 229Q-X, 231Q, 232Q-X, Washington Tank Range, and 1950 Rocket Launcher Range*, December.

IT Corporation (IT), 2000b, *Draft Final Engineering Evaluation and Cost Analysis for Ranges at Iron Mountain Road, Fort McClellan, Calhoun County, Alabama*, September.

IT Corporation (IT), 2001, *Site Investigation Work Plan, Former Rifle Grenade Range North of Washington Ranges, Parcel 221Q-X*, February.

U.S. Army Corps of Engineers (USACE), 1999a, *Archives Search Report, Maps, Fort McClellan, Anniston, Alabama*, July.

**Table 1**

**Sampling Locations And Rationale  
Ranges West of Iron Mountain Road  
Fort McClellan, Calhoun County, Alabama**

<b>Parcel Number</b>	<b>Sample Location</b>	<b>Sample Media</b>	<b>Sample Location Rationale</b>
<b>232Q-X</b>	HR-232QX-GP03	Surface soil	Surface soil sample to be placed in the eastern area of Parcel 232Q-X in the down range area of the rifle grenade range fan shown on Plate 10 of the USACE Archive Search Report, July 1999 . Sample data will indicate if contaminant releases into the environment have occurred from the likely impact area for the range fan and if contaminated soil exists at this location. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes.
	HR-232QX-GP04	Surface soil	Surface soil sample to be placed in the eastern area of Parcel 232Q-X in the down range area of the rifle grenade range fan shown on Plate 10 of the USACE Archive Search Report, July 1999 . Sample data will indicate if contaminant releases into the environment have occurred from the likely impact area for the range fan and if contaminated soil exists at this location. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes.
	HR-232QX-GP05	Surface soil	Surface soil sample to be placed in the southeastern area of Parcel 232Q-X in the down range area of the rifle grenade range fan shown on Plate 10 of the USACE Archive Search Report, July 1999 . Sample data will indicate if contaminant releases into the environment have occurred from the likely impact area for the range fan and if contaminated soil exists at this location. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes.
	HR-232QX-GP06	Surface soil	Surface soil sample to be placed in the eastern area of Parcel 232Q-X in the down range area of the rifle grenade range fan shown on Plate 10 of the USACE Archive Search Report, July 1999 . Sample data will indicate if contaminant releases into the environment have occurred from the likely impact area for the range fan and if contaminated soil exists at this location. Soil sample data will also be used to assess potential impacts to terrestrial biota that might utilize the site for food and/or habitat purposes.

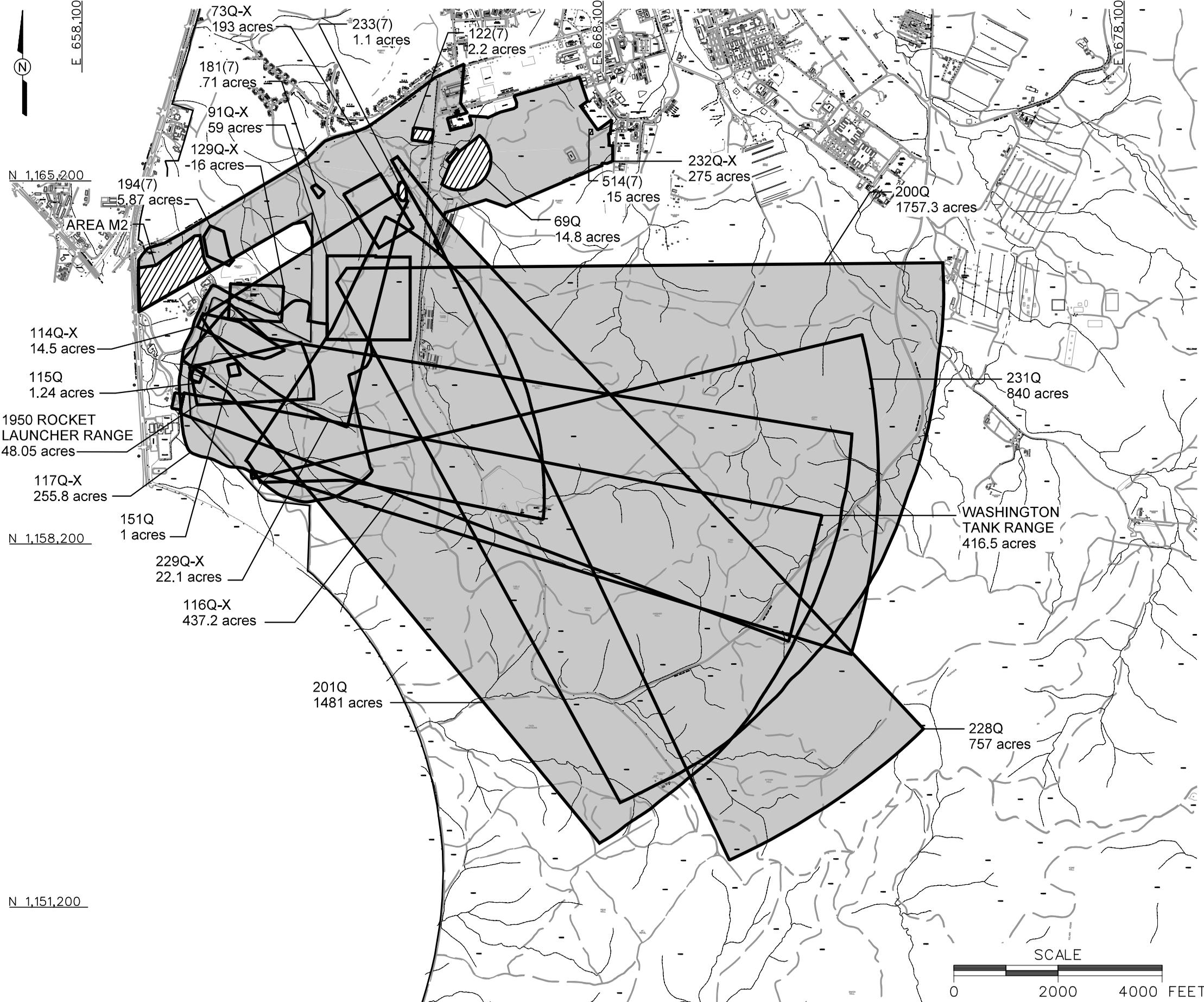
Table 2

**Surface Soil Sample Designations and QA/QC Sample Quantities  
Ranges West of Iron Mountain Road, Parcel 232Q-X  
Fort McClellan, Calhoun County, Alabama**

Sample Location	Sample Designation	Sample Depth (ft)	QA/QC Samples			Analytical Suite
			Field Duplicates	Field Splits	MS/MSD	
HR-232QX-GP03	HR-232QX-GP03-SS-ECC0047-REG	0-1			HR-232QX-GP03-SS-ECC0047-MS/MSD	TAL Metals, Nitroexplosives, and Perchlorate
HR-232QX-GP04	HR-232QX-GP04-SS-ECC0048-REG	0-1				TAL Metals, Nitroexplosives, and Perchlorate
HR-232QX-GP05	HR-232QX-GP05-SS-ECC0049-REG	0-1				TAL Metals, Nitroexplosives, and Perchlorate
HR-232QX-GP06	HR-232QX-GP06-SS-ECC0050-REG	0-1	HR-232QX-GP06-SS-ECC0051-REG			TAL Metals, Nitroexplosives, and Perchlorate

REG - Field sample.  
 FD - Field duplicate.  
 MS/MSD - Matrix spike/matrix spike duplicate.  
 QA/QC - Quality assurance/quality control.  
 TAL - Target analyte list.  
 HR - Chemical Warfare Material

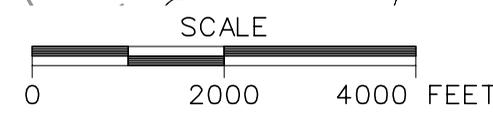
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 PROJ. NO.: 796887  
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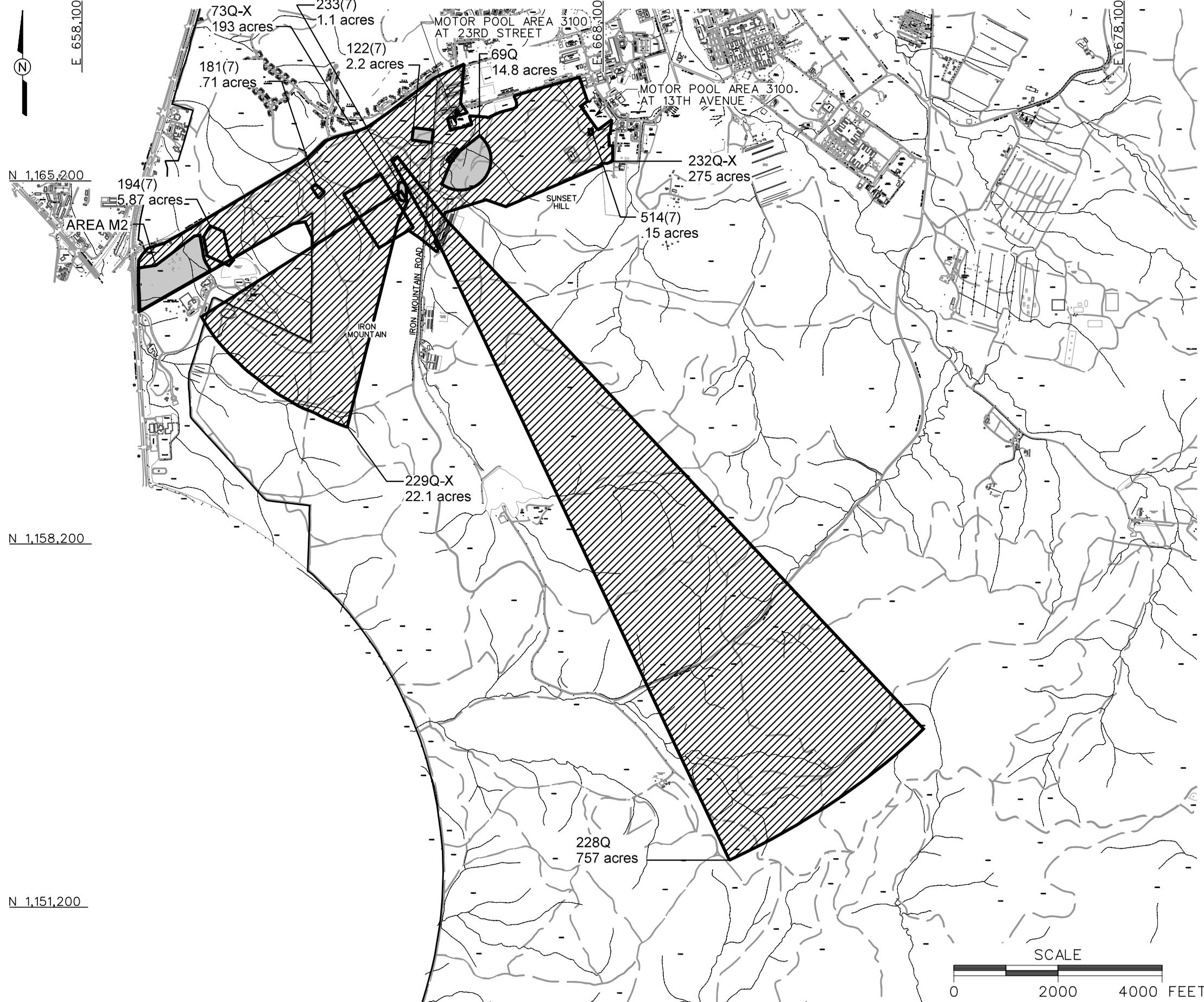
- LEGEND**
- UNIMPROVED ROADS AND PARKING
  - PAVED ROADS AND PARKING
  - BUILDING
  - TREES / TREELINE
  - PARCEL BOUNDARY
  - PARCELS EXCLUDED FROM THE STUDY AREA
  - BRIDGE
  - CULVERT WITH HEADWALL
  - SURFACE DRAINAGE / CREEK
  - MANMADE SURFACE DRAINAGE FEATURE
  - FENCE
  - UTILITY POLE

**FIGURE 1-2**  
**SITE MAP**  
 RANGES WEST OF IRON MOUNTAIN ROAD  
 PARCELS 181(7), 194(7), 518(7), 73Q-X, 91Q-X, 114Q-X, 115Q, 116Q-X, 117Q-X, 129Q-X, 151Q, 200Q, 201Q, 228Q, 229Q-X, 231Q, 232Q-X, WASHINGTON TANK RANGE AND 1950 ROCKET LAUNCHER RANGE

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**LEGEND**

- UNIMPROVED ROADS AND PARKING
- PAVED ROADS AND PARKING
- BUILDING
- TREES / TREELINE
- BRIDGE
- CULVERT WITH HEADWALL
- SURFACE DRAINAGE / CREEK
- MANMADE SURFACE DRAINAGE FEATURE
- FENCE
- UTILITY POLE
- PARCELS INCLUDED IN SITE INVESTIGATION (SI) REPORT
- PARCELS EXCLUDED FROM THE SITE INVESTIGATION (SI)

**FIGURE 1-4**  
**SITE MAP**  
 AREA 45, PARCEL 232Q-X AND  
 ADJACENT SITES AND RANGES  
 PARCELS 181(7), 194(7), 518(7),  
 73Q-X, 228Q, AND 229Q-X

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