

Navajo Abandoned Uranium Mine Site Screen Report

This form is for use at the site of abandoned uranium mines (AUM) located on Navajo Nation lands. Applicable sites include all mine and mine features that have or have not undergone reclamation by the Navajo Abandoned Mine Lands Reclamation Program, including features, adits and pits. Applicable sites also include all AUM sites listed in the USEPA CERCLIS database, all sites listed in the 2008 AUM GIS Report issued by USACOE and USEPA, all AUM sites on allotment lands associated with the Navajo Nation, and any and all AUM sites lands not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands but that are or may be impacting Navajo lands will need to be coordinated with the authorities appropriate to those lands.

The purpose of the form is to ascertain the status and location of the identified AUM site, to record all immediate site information associated with the mine site and to document the recommendation and/or decision on what additional steps, if any, are needed at the site.

Silver Bit No. 18 AUM Site

Navajo AUM Eastern Region

Prepared by:

Weston Solutions, Inc.

Contract: W91238-06-F-0083

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May 2009

Part I Site Identification, Location and Status

Site Names and ID numbers as applicable

Mine ID: 325

Map ID: E45

CERCLIS: NNN 000 908 751

NAMLRP: NOT ASSIGNED

New Mexico Mining and Mineral Division ID: NM0169

New Mexico Bureau of Geology and Mineral Resources: NMMK0257

Local name / Aliases: Silver Bit 1-18, Pentada, Pentada Prospect

Chapter and local area: Baca/Haystack Chapter

Lat/Long: 35.4594086355 N / -108.088598314 W

Nearby road and highway: NM-371, Interstate 40 **Local Post Office:** Thoreau, NM

Land Status: check one or more and provide ownership and contact information below

- Tribal Trust Land**
- Tribal Fee Land**
- Allotment**
- Fee land**
- Public lands**
- Private**
- Bureau of Land Mgmt**
- State**

Ownership and contact information:

No ownership was identified. The mine site property is classified as Bureau of Land Management land.

Part III Type, number and reclamation status of mine features

Provide description and reclamation status of all mine sites and features at site. Include all waste piles, adits, pits and other features, and indicate whether they are open, closed, covered, capped, buried or unreclaimed. Indicate approximate size, shape and extent, including description of any reclamation caps. Note condition of all reclamation caps.

Reclamation status of the mine site is currently unknown. No waste piles, adits, pits, or other features were observed during the site visit.

Part IV Summary of radiological readings**Background Locations**

#1 25,289 counts per minute (cpm)

Mine site: Silver Bit No. 18

- See Figures 1 and 2

Nearby Structure Perimeter – None

Describe any other radiological measurements:

A total of 1,349 gamma radiation measurements were collected from the mine site, ranging from 10,636 cpm to 54,684 cpm. The measurements are represented in Figures 1 and 2. Radiological measurements collected for the New Mexico Mining and Minerals Division during a 2008 field screening survey found gamma radiation levels near the ground surface with a maximum of 160 micro Roentgen per hour ($\mu\text{R/hr}$) and a minimum of 24 $\mu\text{R/hr}$, levels at the 4-foot elevation with a maximum of 160 $\mu\text{R/hr}$ and a minimum of 21 $\mu\text{R/hr}$, and background levels of less than 20 $\mu\text{R/hr}$.

Part V Site sketch of all mine features and readings, including locations of all structures, sources of drinking water and any other important features and radiological readings.

Presented in Figures 1 and 2

Part VI Response Action Summary

Site Name(s): Silver Bit No. 18 **Chapter:** Baca/Haystack

Decision Criteria

Is there an unreclaimed waste pile at the site? No

At what distance from the waste pile is the nearest residential structure located? N/A

At what distances from the waste pile are there potential drinking water sources? N/A

Is there a reclamation cap or sealed adit in place at the site? No

Is the cap/seal functionally intact? N/A

Is the cap/seal sufficiently degraded to create a concern about releases? N/A

At what distance from the cap/seal is the nearest domestic structure located? N/A

At what distance from the cap/seal is the nearest domestic drinking water source? N/A

Summary of emergency response factors

None

Summary hazard ranking system factors

None

Summary of reclamation factors

Reclamation status of the mine site is currently unknown. No waste piles, adits, pits, or other features were observed during the site visit.

Part VII Photos

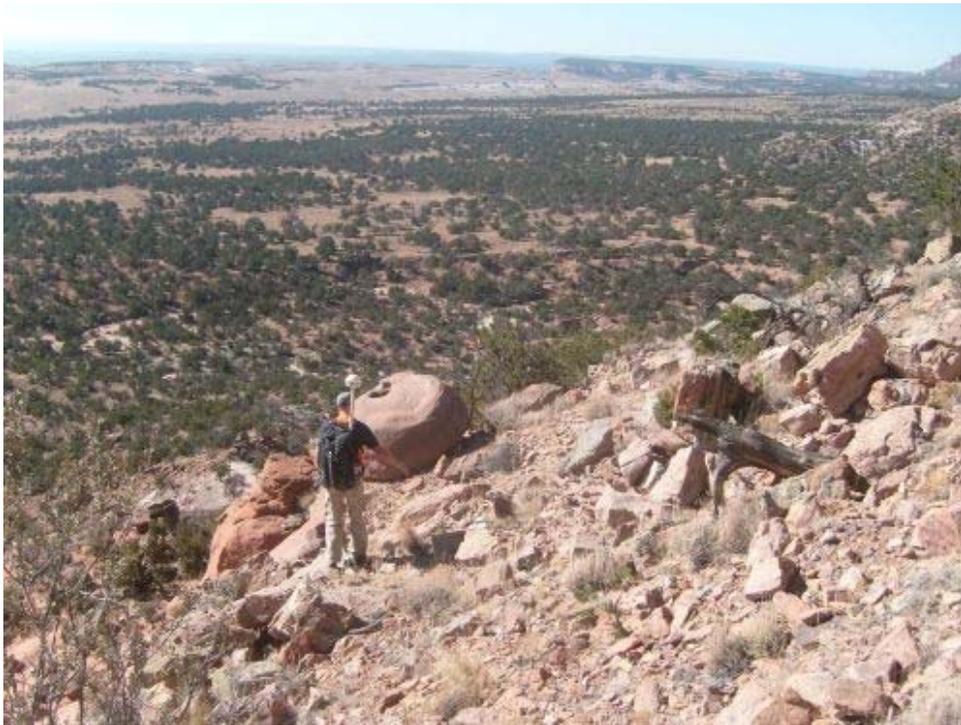


Photo 1. Silver Bit 18 mine site, towards the west on top of cliff



Photo 2. Silver Bit 18 mine site, looking up cliff to the north



Photo 3. Silver Bit 18 mine site, looking down cliff face (top of site boundary)

Part VIII Contacts Reports and Information

Name Lynn "Buddy" Elkins

Title or official role (if any) Owner of adjacent property

Telephone number _____

Information provided _____

Name Stanley Edison

Title or official role (if any) Navajo EPA Superfund Program

Address PO Box 2946, Window Rock, AZ 86515

Telephone number 928-871-6861

Information provided General Background and Contact/Access Information

Name Susan A. Lucas Kamat

Title or official role (if any) AUM Data Manager – New Mexico Mining & Mineral Division

Telephone number (505) 476-3408 fx: (505) 476-3408

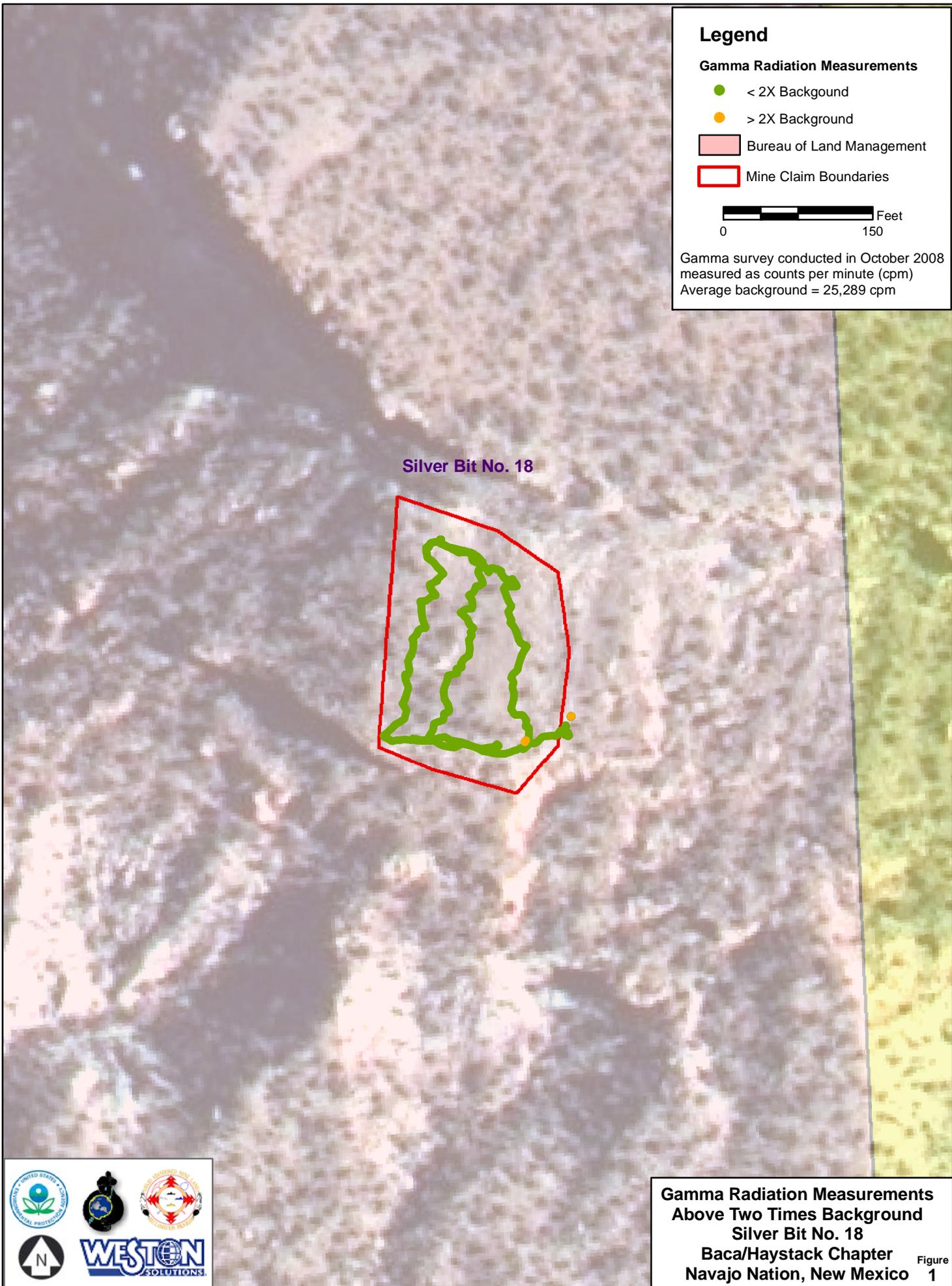
Information provided Background information and findings from 2008 New Mexico MMD
Survey of mining sites.

Name _____

Title or official role (if any) _____

Telephone number _____

Information provided _____



Legend

Gamma Radiation Measurements

- < 2X Background
- > 2X Background
- Bureau of Land Management
- Mine Claim Boundaries

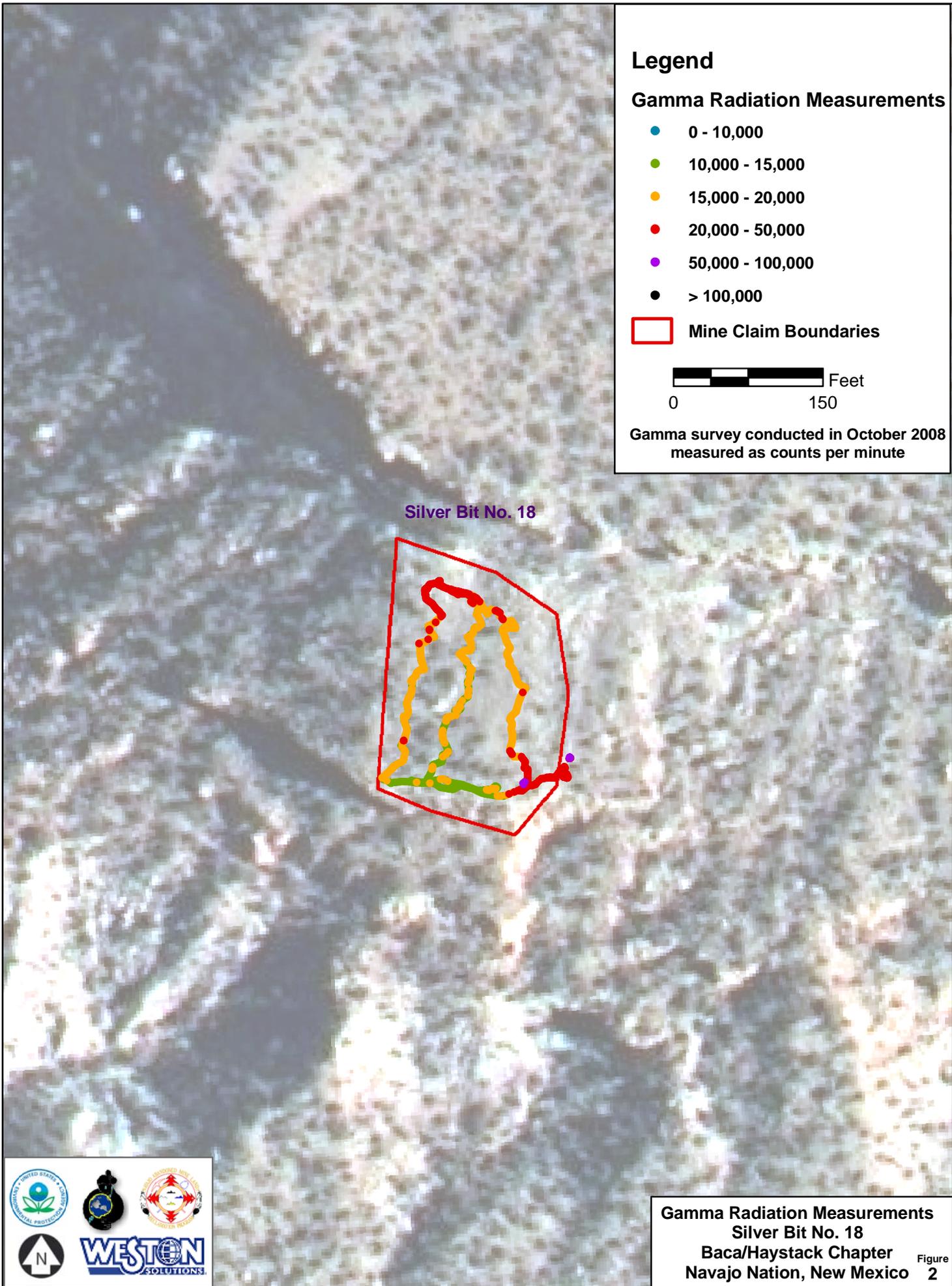


Gamma survey conducted in October 2008
 measured as counts per minute (cpm)
 Average background = 25,289 cpm

Silver Bit No. 18



Gamma Radiation Measurements Above Two Times Background Silver Bit No. 18
 Baca/Haystack Chapter Navajo Nation, New Mexico Figure 1



Legend

Gamma Radiation Measurements

- 0 - 10,000
- 10,000 - 15,000
- 15,000 - 20,000
- 20,000 - 50,000
- 50,000 - 100,000
- > 100,000

 Mine Claim Boundaries

 Feet
0 150

Gamma survey conducted in October 2008
measured as counts per minute

Silver Bit No. 18



Gamma Radiation Measurements
Silver Bit No. 18
Baca/Haystack Chapter
Navajo Nation, New Mexico Figure 2