

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.

Section 23 AUM Site

Navajo AUM Eastern Region

Prepared by:

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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: 364

Map ID: E90

CERCLIS: NNN 000 908 745

NAMLRP: NOT ASSIGNED

New Mexico Mining and Mineral Division ID: NM0100

New Mexico Bureau of Geology and Mineral Resources: NMMK0207

Local name / Aliases: N/A

Chapter and local area: Baca/Haystack Chapter

Lat/Long: 35.3345760582 N / -107.861594736 W

Nearby road and highway: Haystack Road (BIA 23), Interstate 40

Local Post Office: Prewitt, 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:

The Section 23 mine site property is classified as Navajo Tribal Fee land and Indian Allotment land. A private house is currently located within the site.

Part II Site Observations

Observed Structures: list number of and describe human habitation status of structures at the following distances from mine:

0 to 200 feet:

200 feet to 0.25 mile:

Observed Public or commercial structure: list and describe all schools, clinics, Chapter Houses, places of business and any other structure used by members of the community at the following distances:

0 to 200 feet: None

200 feet to 0.25 mile: None

Levels measured around the perimeter(s) of the identified structure(s):

- The onsite house was measured at gamma radiation level upto 327,456 counts per minute (cpm)
- The levels near the trailer homes were found to be less than two-times background levels.

Observed water sources: list the number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine:

0 to 0.25 miles: None

.25 miles to 4 miles: None

Known Site History: include information from interviews with Chapter officials and residents.

Note information on mine ownership, period of operation, and type of mining operation.

The Section 23 mine consists of an area of 71,269.59 square meters. Any historical information pertaining to mining operations and historical ownership of the mine site appeared to be unclear.

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. Local residents stated that several open pits had been filled in the western portion of the site, and the resident of the onsite house claimed that the house was built on excavated cover material. No adits or other mine features were observed during the site visit.

Part IV Summary of radiological readings

Background Locations

#1 12,512 cpm

#1 10,487 cpm

Mine site: Section 23

- See Figures 1 and 2

Nearby Structure Perimeter – None

Describe any other radiological measurements:

A total of 3,315 gamma radiation measurements were collected from mine sites, ranging from 5,802 cpm to 327,456 cpm. Measurements were found at their highest near the onsite house. The measurements are represented in Figures 1 and 2.

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): Section 23 **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

Gamma radiation at greater than two-times background was found at the site, one residence was found on the site property., and five residences are located within ¼ mile of the mine. No drinking water sources were found in the vicinity of the site.

Summary hazard ranking system factors

None

Summary of reclamation factors

No known reclamation

Part VII Photos



Photo 1. Section 23 mine site, eastern area, towards the east



Photo 3. Section 23 mine site, western area, towards the west



Photo 4. Section 23 mine site, western area, towards the south



Photo 5. Section 23 mine site, former open pit in the western area, towards the north

Part VIII Contacts Reports and Information

Name

Title or official role (if any)

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 Ms George Padilla

Title or official role (if any) Regional Environmental Scientist, BIA, Navajo Nation

Telephone number (505) 863-8434

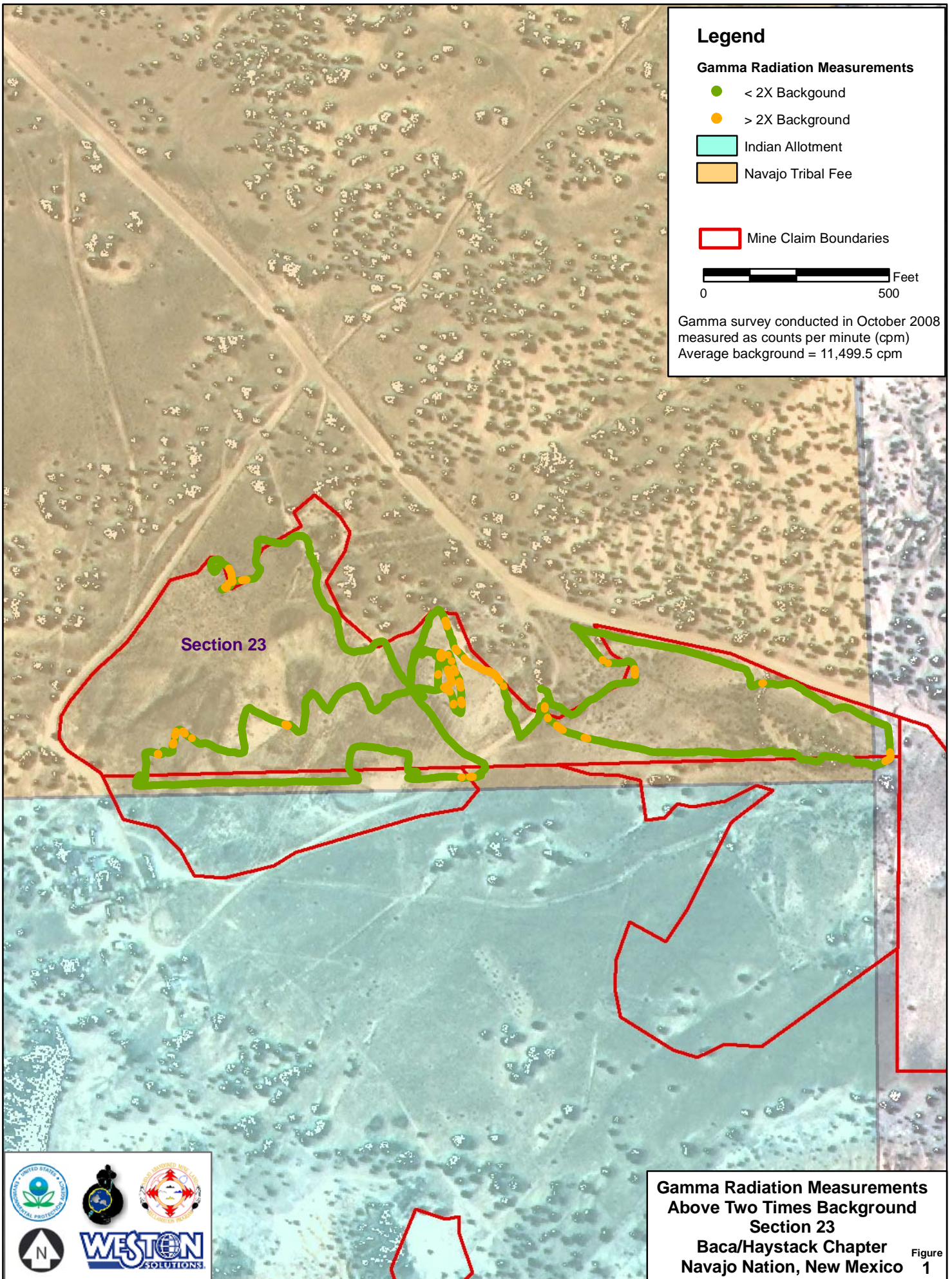
Address PO Box 1060, Gallup, NM 87305

Name _____

Title or official role (if any) _____

Telephone number _____

Information provided _____



Legend

Gamma Radiation Measurements

- < 2X Background
- > 2X Background
- Indian Allotment
- Navajo Tribal Fee

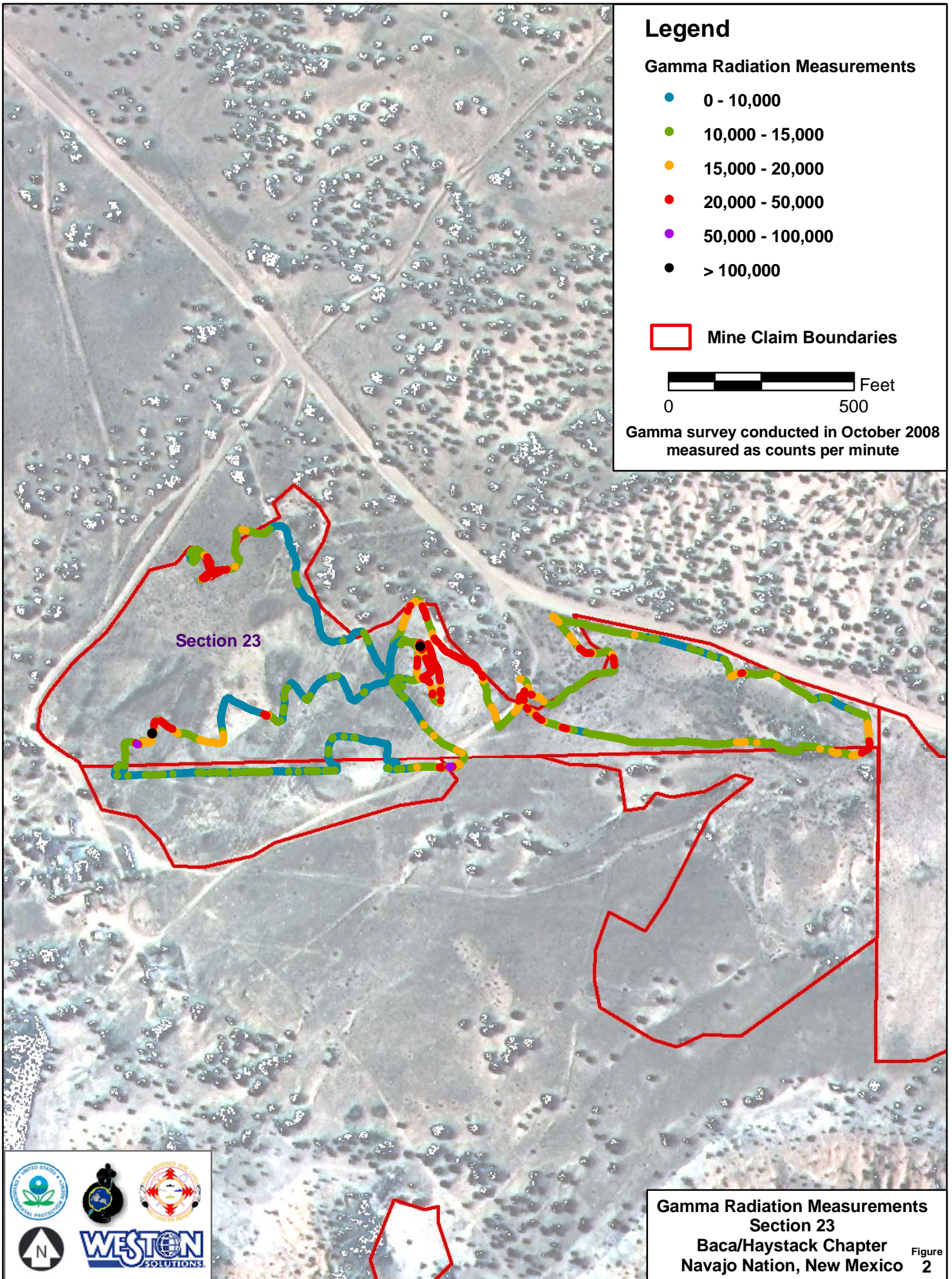
Mine Claim Boundaries

Feet
0 500

Gamma survey conducted in October 2008
measured as counts per minute (cpm)
Average background = 11,499.5 cpm

Section 23

**Gamma Radiation Measurements
Above Two Times Background
Section 23
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

0 500 Feet

Gamma survey conducted in October 2008
measured as counts per minute

Section 23



Gamma Radiation Measurements
Section 23
Baca/Haystack Chapter
Navajo Nation, New Mexico Figure 2