

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 32 AUM Site

Navajo AUM Eastern Region

Prepared by:

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Contract: W91238-06-F-0083

12767.063.496.1111

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Part I Site Identification, Location and Status

Site Names and ID numbers as applicable

Mine ID: 302

Map ID: E41a

CERCLIS: NNN 000 908 747

NAMLRP: NOT ASSIGNED

New Mexico Mining and Mineral Division ID: NM0059

New Mexico Bureau of Geology and Mineral Resources: NMMK0247

Local name / Aliases: West Ranch (Begay Allotment), Moe No. 5, Old Moe, Moe Mine, Moe #5, Moe decline

Chapter and local area: Casamero Lake Chapter

Lat/Long: 35.4907656429 N / -108.017439362 W

Nearby road and highway: Route 19, Casamero Lake Loop Road

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 mine site property is classified as Indian Allotment land, but no residences were found within 0.25 miles of 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: None **200 feet to 0.25 mile:** None

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):

None

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 **0.25 miles to 4 miles:** None

Observed Sensitive environments: note and describe all sensitive environments located within visible range of the mine site, including: wetlands, endangered species habitats and approximate locations of sites that may be under protection of the government of the Navajo Nation.

None observed

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

██████████ lives near the mine and had relatives who formerly worked for Cobb Nuclear who operated either the Section 32 Mine and/or Section 33 Mine. The mine was closure was the result of a fatality at the mine

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

The Section 32 mine consists of an area of 12,102.91 square meters and an undetermined extent of underground workings. Any historical information pertaining to mining operations and historical ownership of the mine site, other then Cobb Nuclear, 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 sites are currently unknown. No visible signs of reclamation were observed. A deep shaft is located at the southeastern portion of the site is unfenced. No waste piles or other mine features were observed during the site visit.

Part IV Summary of radiological readings

Background Locations

- #1 16,630 cpm
- #2 17,128 cpm
- #3 16,882 cpm

Mine site: Section 33
- See Figures 1 and 2

Nearby Structure Perimeter

The [REDACTED] residence had some materials (tarps and lumber) that were from the mine. Gamma radiation measurements on her property were approximately 12,000 cpm.

Describe any other radiological measurements:

A total of 1,146 gamma radiation measurements were collected from mine sites, ranging from 10,689 cpm to 180,367 cpm. 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 32

Chapter: Casamero Lake

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

No known reclamation

Part VII Photos



Photo 2. Section 32 Mine site, towards the south east.
waste piles in background are located on adjoining Section 33 Mine site



Photo 3. Section 32 Mine site, unsecured open shaft located in south east portion of site



Photo 4. Section 32 Mine site, interior of open shaft

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

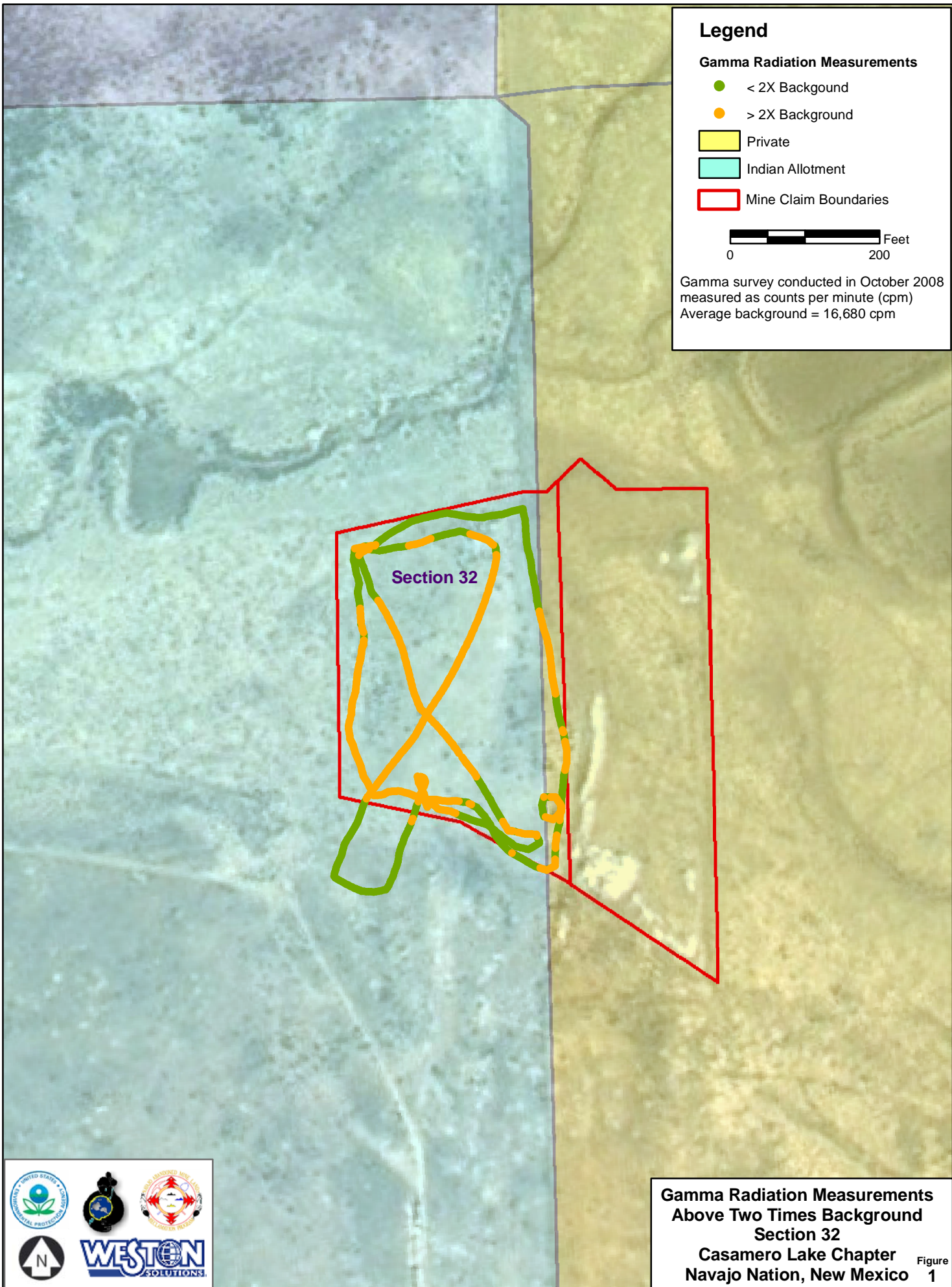
Address PO Box 1060, Gallup, NM 87305

Name _____

Title or official role (if any) _____

Telephone number _____

Information provided _____



Legend

Gamma Radiation Measurements

- < 2X Background
- > 2X Background

Private

Indian Allotment

Mine Claim Boundaries

0 200 Feet

Gamma survey conducted in October 2008
 measured as counts per minute (cpm)
 Average background = 16,680 cpm

Section 32

Gamma Radiation Measurements Above Two Times Background Section 32 Casamero Lake Chapter Navajo Nation, New Mexico

Legend

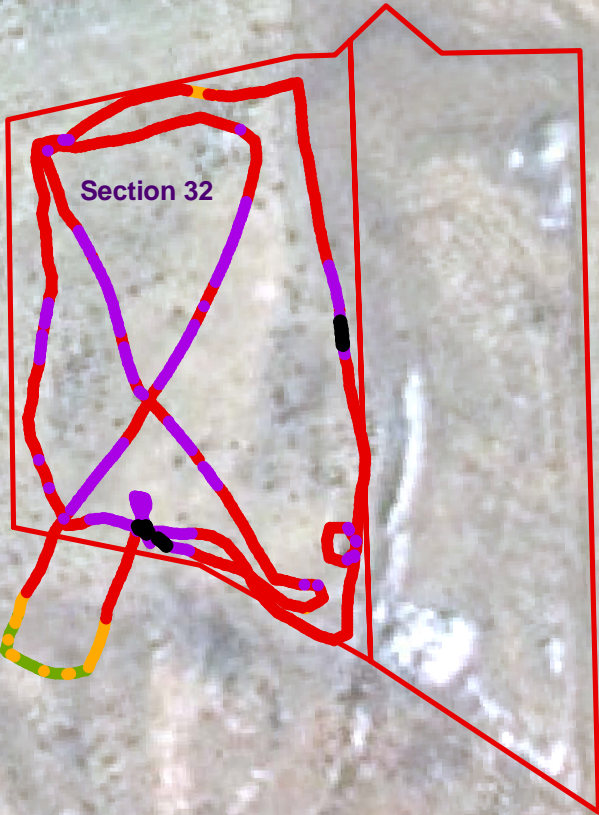
Gamma Radiation Measurements

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

□ Mine Claim Boundaries



Gamma survey conducted in October 2008
measured as counts per minute



Gamma Radiation Measurements
Section 32
Casamero Lake Chapter
Navajo Nation, New Mexico