

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 16 Deposit AUM Site

Navajo AUM Eastern Region

Prepared by:

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Contract: W91238-06-F-0083

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Part I Site Identification, Location and Status

Site Names and ID numbers as applicable

Mine ID: 1030

Map ID: E9

CERCLIS: NNN 000 908 743

NAMLRP: NOT ASSIGNED

New Mexico Mining and Mineral Division ID: NM0051

New Mexico Bureau of Geology and Mineral Resources: NMMK-0034,-0318,-0319

Local name / Aliases: N/A

Chapter and local area: Church Rock Chapter

Lat/Long: 35.6137636131 N / -108.545304842 W

Nearby road and highway: NM-566, Interstate 40
NM

Local Post Office: Church Rock,

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 Navajo Tribal Fee and State of New Mexico land.

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: 1 home located along the northwestern edge of the site (Photo 6). Gamma radiation levels near the house were found less than 2 times background levels. Home also includes a small livestock stable and 2 small wood structures. Field personnel was unable to contact the occupants. Several other wooden structures were found throughout the site (Photo 9, 10). Empty drums and other waste was found along the southern portion of the site (Photo 4).

200 feet to 0.25 mile: 1 home located approximately 300 feet west of the site (Photo 8). Home also includes 3 small structures and a water tank. The source of water for the tank is unknown. Field personnel was unable to contact the occupants.

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):

- Homes along north and northwestern edge of site – measured at less than 2 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: Water pump observed in the western area of the site (Photo 9), likely used for livestock. A water tank associated with the home to the west of the site was observed. Field personnel were unable to determine the source or use of the tank.

0.25 miles to 4 miles: None

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

Section 16 Deposit mine consists of an area of 911,757.33 square meters. Any historical information pertaining to mining operations and historical ownership of the mine site appeared to be unclear. Two riverbeds/washes were found along the eastern and southern edges of the site (Photo 3, 5).

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, or pits were observed during the site visit.

Part IV Summary of radiological readings

Background Locations

- #1 9,948 counts per minute (cpm)
- #2 12,962 cpm
- #3 11,682 cpm

Mine site: Section 16 Deposit
- See Figures 1 and 2

Nearby Structure Perimeter – N/A

Describe any other radiological measurements:

A total of 5,600 gamma radiation measurements were collected from mine sites, ranging from 7,130 cpm to 18,483 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 16 Deposit **Chapter:** Church Rock

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

1 home located along the northwestern edge of the site. Gamma radiation levels near the house were found less than 2 times background levels. Home also includes a small livestock stable and 2 small wood structures. Field personnel were unable to contact the occupants. Empty drums and other waste was found along the southern portion of the site. 1 home located approximately 300 feet west of the site. Home also includes 3 small structures and a water tank. The source and use of the water for the tank is unknown. Field personnel were unable to contact the occupants. Water pump observed in the western area of the site, likely used for livestock.

Summary of reclamation factors

No known reclamation

Part VII Photos



Photo 1. Section 16 Deposit site, towards the east



Photo 2. Section 16 Deposit site, towards the north



Photo 3. River bed / wash area along the southern edge of the site, towards the southeast



Photo 4. Empty drums and wooden boards found along the southern edge of the site, towards the south



Photo 5. River bed / wash area along the eastern edge of the site, towards the southeast



Photo 6. Housing complex located along the western edge of the property, towards the west



Photo 7. Small wooden structure found within the central western area of the mine site, towards the east



Photo 8. Housing complex located approximately 200 feet west-northwest of the mine site, towards the west



Photo 9. Water pump found along the western edge of the site, towards the west



Photo 10. Wooden pole with tires and metal sheeting found in the center of the site, towards the south

Part VIII Contacts Reports and Information

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 _____

Title or official role (if any) _____

Telephone number _____

Information provided _____

Name _____

Title or official role (if any) _____

Telephone number _____

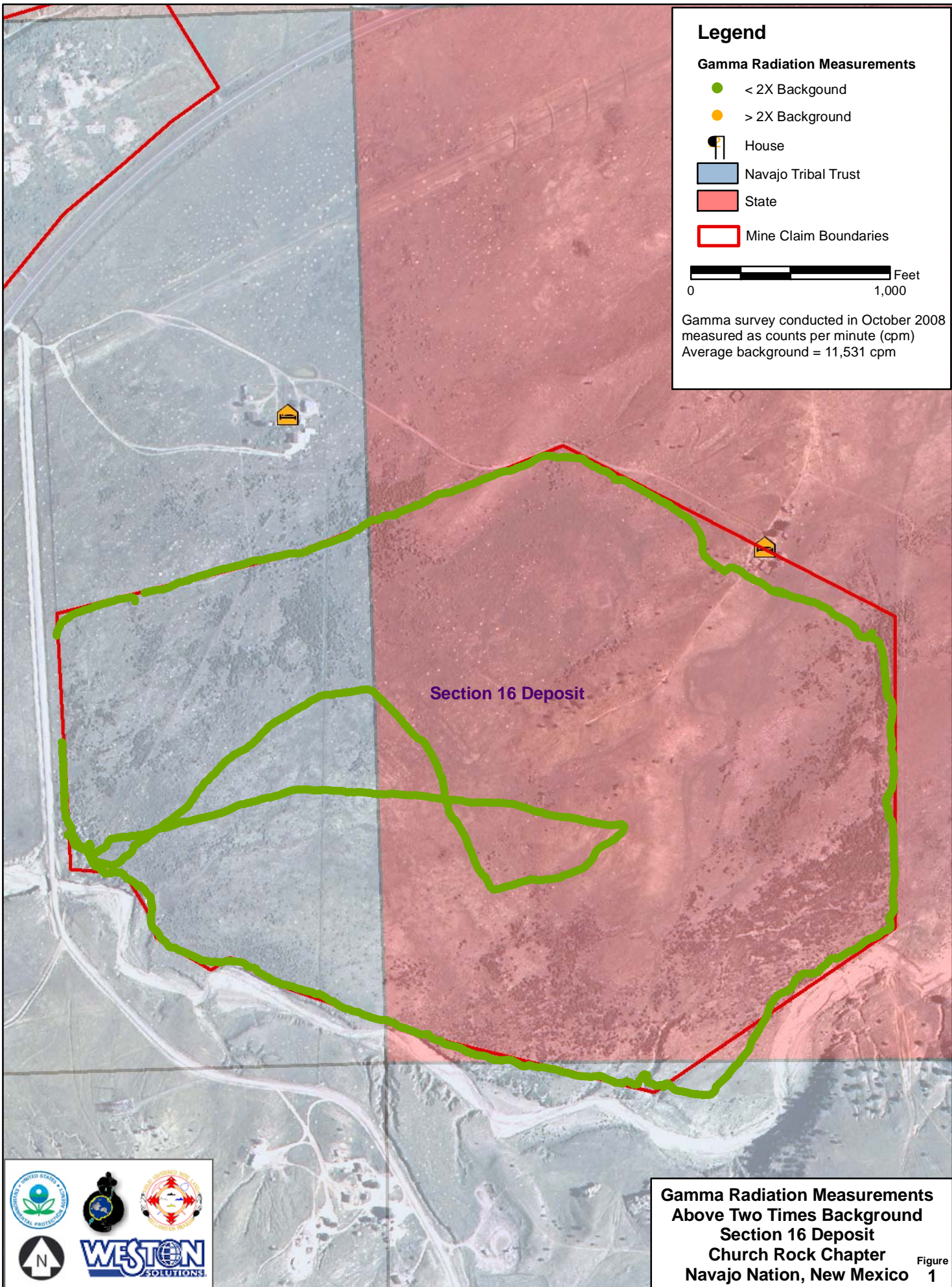
Information provided _____

Name _____

Title or official role (if any) _____

Telephone number _____

Information provided _____



Legend

Gamma Radiation Measurements

- < 2X Background
- > 2X Background

- House
- Navajo Tribal Trust
- State

Mine Claim Boundaries

Feet
0 1,000

Gamma survey conducted in October 2008
measured as counts per minute (cpm)
Average background = 11,531 cpm

Section 16 Deposit



**Gamma Radiation Measurements
Above Two Times Background
Section 16 Deposit
Church Rock Chapter
Navajo Nation, New Mexico** Figure 1

