

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.

Nose Rock No. 1 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: 1001

Map ID: E16

CERCLIS: NNN 000 908 729

NAMLRP: NOT ASSIGNED

New Mexico Mining and Mineral Division ID: NOT ASSIGNED

New Mexico Bureau of Geology and Mineral Resources: NOT ASSIGNED

Local name / Aliases: Nose Rock Area, Mine Unit #1, Section 31 Shafts, Section 36 Shaft, Phillips Mine Unit No 1

Chapter and local area: Becenti Chapter

Lat/Long: 35.8331984118 N / -108.055454092 W

Nearby road and highway: NM-371, Interstate 40
NM

Local Post Office: Crownpoint,

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: 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: Buildings and structures located throughout the site, all currently unoccupied (Photos 2, 5, 6, 8, 9).

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: Wells were observed throughout the site property, including monitoring wells, pumps, and storage tanks (see photos). No residences or occupants are in the vicinity or surrounding areas of the site.

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.

Nose Rock No. 1 mine consists of an area of 837,191.01 square meters. Any historical information pertaining to mining operations and historical ownership of the mine site appeared to be unclear. The structures found throughout the site indicate a large scale mining effort.

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. Lined and unlined ponds were found throughout the site property (Photo 11), dirt piles were also found throughout the site (Photo 12). No adits or shafts were observed, but historical aliases indicate the presence of shafts.

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

- #1 12,367 cpm
- #2 13,031 cpm
- #3 14,363 cpm
- #4 11,846 cpm

Mine site: Nose Rock No. 1
- See Figures 1 and 2

Nearby Structure Perimeter – N/A

Describe any other radiological measurements:

A total of 5,155 gamma radiation measurements were collected from mine sites, ranging from 5,424 cpm to 15,772 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): Nose Rock No. 1 **Chapter:** Becenti

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

Unoccupied building and structures throughout the site property. Wells located throughout site property. There were no residences within the vicinity of the site, or surrounding areas.

Summary of reclamation factors

No known reclamation

Part VII Photos



Photo 1. Nose Rock No 1 mine site entrance, towards the north



Photo 2. Nose Rock No 1 mine site southwest area building, towards the northeast



Photo 3. Nose Rock No 1 mine site PVC pipe in southwestern area, towards the northeast



Photo 4. Nose Rock No 1 mine site water pipe in southwestern area, towards the south



Photo 5. Nose Rock No 1 mine site warehouse building vicinity in northern area, towards the north



Photo 6. Nose Rock No 1 mine site tank gas pump in northern area, towards the northeast



Photo 7. Nose Rock No 1 mine site northern cliff area, towards the north



Photo 8. Nose Rock No 1 mine site metal structure in northern cliff area, towards the northeast



Photo 9. Nose Rock No 1 mine site tank and warehouse building in northern area, towards the south



Photo 10. Nose Rock No 1 mine site water pump and well, near northern tank, towards the south



Photo 11. Nose Rock No 1 mine site lined pond in northeastern area, towards the north



Photo 12. Nose Rock No 1 mine site mound piles in the eastern area, towards the north



Photo 13. Nose Rock No 1 mine site well and concrete containment in central area, towards the east



Photo 14. Nose Rock No 1 diagonal pipes in central area, towards the east

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 _____

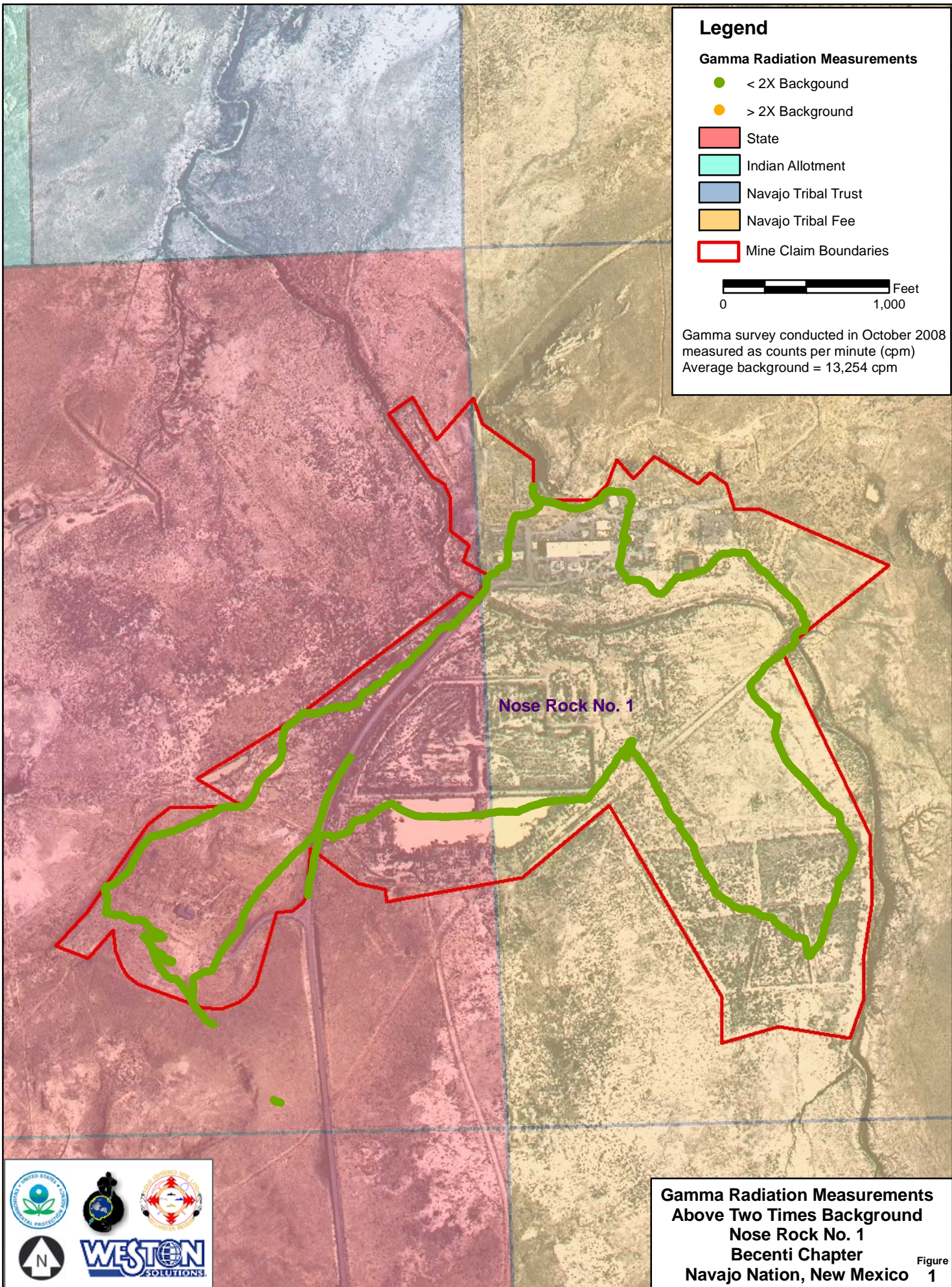
Information provided _____

Name _____

Title or official role (if any) _____

Telephone number _____

Information provided _____



Legend

Gamma Radiation Measurements

- < 2X Background
- > 2X Background
- State
- Indian Allotment
- Navajo Tribal Trust
- Navajo Tribal Fee
- Mine Claim Boundaries

0 1,000 Feet

Gamma survey conducted in October 2008
 measured as counts per minute (cpm)
 Average background = 13,254 cpm

Nose Rock No. 1

**Gamma Radiation Measurements
 Above Two Times Background
 Nose Rock No. 1
 Becenti Chapter
 Navajo Nation, New Mexico**



