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, pits and waste piles. 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 not listed in any database located on Navajo lands. Reconnaissance of any sites located on lands adjacent to Navajo lands that 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, and record all immediate site information associated with the mine site. Decisions and recommendations on what additional steps are needed will be provided on a separate document.

Taylor Reid No. 3 AUM Site

Navajo AUM Western Region

Prepared by:

Weston Solutions, Inc.

Contract: W91238-06-F-0083

12767.063.599.1111

January 2011

Part I	Site Identification, Location and Status							
Site Names and ID numbers as applicable								
Mine ID:	453							
Map ID:	W84							
CERCLIS:	NNN0009091	07						
Navajo Abandoned Mine Land Reclamation Program: None								
Local name / Aliases: None								
Chapter and local area: Cameron Chapter								
County: Coc	conino State: Arizona							
Lat/Long: 35.7578680848 N / -111.392444987 W								
Nearby road	and highway:	Highway 89	Local Post Office:	Cameron, AZ				
Surface Land Status: check one or more and provide ownership and contact information below								
Tribal Trust Private Bureau of La State			Public lands Tribal Fee Land Allotment Fee land					
Subsurface Mineral Rights:								
No information on subsurface mineral rights ownership was found in the EPA/AUM Database								
Claim and operator information:								
The mine site surface land status is classified as Tribal Trust Land. No additional ownership / lease information was identified in the EPA/AUM database.								
Number of residential structures within 200 feet of mine: None								
Estimated volume of mine waste onsite: 17 yd ³								

Part II Summary of radiological readings

Highest gamma radiation measurement:

463,952 counts per minute (cpm)

Describe any other radiological measurements:

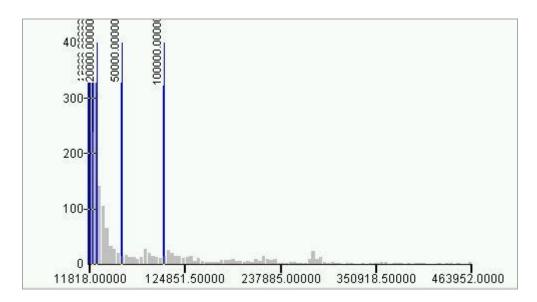
A total of 1,507 gamma radiation measurements were collected from the mine site, ranging from 11,818 cpm to 463,952 cpm. The measurements collected at the waste pile were found at a maximum level of approximately 460,000 cpm. The measurements are represented in Figures 1 and 2.

Background Readings: 11,499 cpm

Background Average: 11,499 cpm

Distribution Chart and Statistics:

The following chart and statistics were generated by ESRI ArcGIS 9.3.1, and show the general distribution of the site gamma radiation measurements. The horizontal X axis represents the gamma radiation reading levels in cpm (lowest levels to the left). The vertical Y axis represents the frequency of each gamma radiation level.



 Count:
 1507

 Minimum:
 11818.00000

 Maximum:
 463952.00000

 Sum:
 111149397.00000

 Mean:
 73755.40610

 Median:
 27099.00000

 Standard Deviation:
 88997.42236

Part III Status of Reclamation and Mine Waste

The following information was obtained from the Navajo Abandoned Mine Land Reclamation Program (NAMLRP) Point Features Database:

NAMLRP Status of the mine site: Reclaimed: No Waste Pile onsite: No

NAMLRP Project Number: None

NAMLRP Mine features: None

The following information was obtained from field observations collected during the 2010 site screening:

Provide description and 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 caps.

Observed	reclan	nation	work	and	ctatus.
Obset veu	I CCIAI	паичи	WUIN	anu	status.

Adits

None

Waste Piles

Waste pile 15' x 10' x 3' broken rock and petrified wood chips

Pits

None

Shafts

None

Other Debris and Mine Features

Reclamation cap throughout center of site with diversion channels

Part IV

Site observations and Environs

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: Windmill Well approximately 1 mi W of the site; Little Colorado River Basin approximately 4 mi E of the site

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, type of mining operation, period of operation, known amount of production, and any other information as provided.

Taylor Reid No. 3 mine consists of an area of 35,630.88 m². No other historical information or any additional ownership / lease information was identified in the EPA/AUM database.

Part V Response Action Summary

Summary of Evaluation Factors:

Accessibility:

Was the mine easily accessible to potential human activity? Yes

Radiological Measurements:

Were any gamma radiation measurements collected at the mine greater than two times the site-specific background levels?

Yes

Waste Piles:

Were any unreclaimed waste piles observed at the mine with gamma radiation measurements greater than two times the site-specific background levels? Yes

Structures:

Were any structures observed within 200 feet of the mine?

No

Potential Drinking Water Sources:

Were any potential drinking water sources observed within 4 miles of the mine? Yes

Reclamation:

Was the mine reported to be previously reclaimed, or did the mine appear to be reclaimed?

Yes (reclamation cap throughout center of site)

Part VI Photos



Photo 1. Taylor Reid No. 3 mine site



Photo 2. Taylor Reid No. 3 mine site, reclamation cap



Photo 3. Taylor Reid No. 3 mine site, waste pile

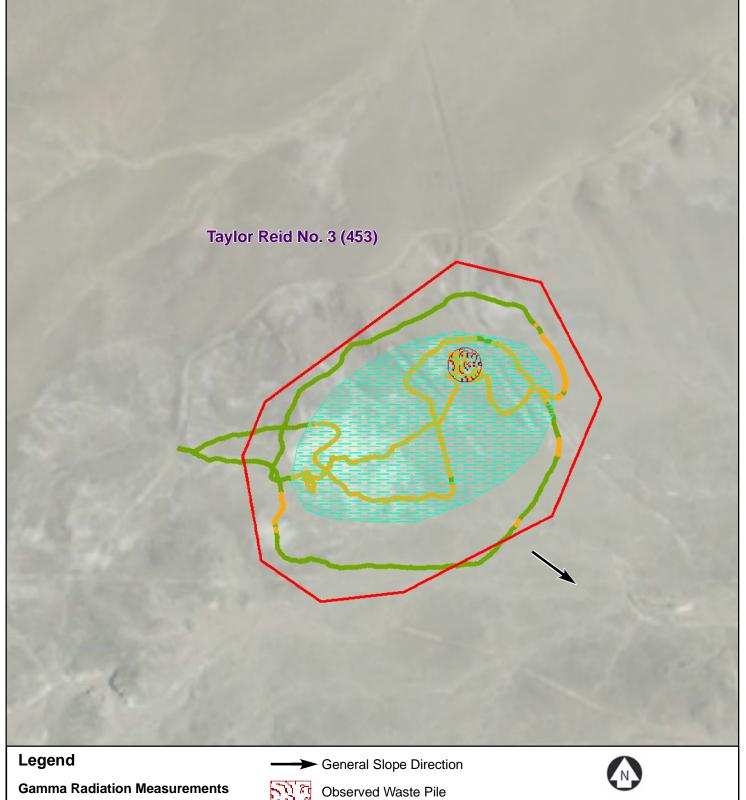


Photo 4. Taylor Reid No. 3 mine site, waste pile and debris

Part VII Contacts Reports and Information

Name: Stanley Edison (928) 871-6861 Eugene Esplain (928) 871-7331 Title or official role (if any) Navajo EPA Superfund Program Address___PO Box 2946, Window Rock, AZ 86515 Information provided Lead Regulatory Agency Title or official role (if any) Address Telephone number_____ Information provided_____ Title or official role (if any) Telephone number_____ Information provided_____ Name Title or official role (if any) Telephone number Information provided_____

Figure 1 - Gamma Radiation Measurements, Above Two Times Background Taylor Reid No. 3 (453) **Cameron Chapter, Navajo Nation**



- < 2X Backgound
- > 2X Background

Gamma survey conducted 11/2010 Measured as counts per minute (cpm)

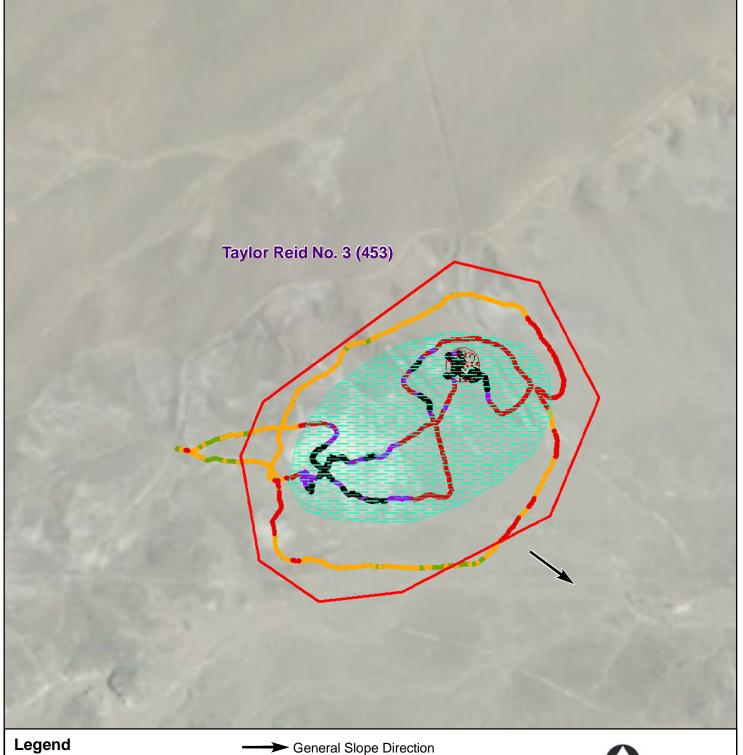
Average background 11,499 cpm

Observed Reclamation Area

Mine Site Boundary

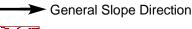


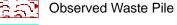
Figure 2 - Gamma Radiation Measurements Taylor Reid No. 3 (453) Cameron Chapter, Navajo Nation



Gamma Radiation Measurements

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





Observed Reclamation Area



Gamma survey conducted 11/2010 Measured as counts per minute (cpm)

Average background 11,499 cpm



