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.

Mine Name: **Jack Daniels No. 1**Mine ID: **160**

Navajo AUM Western Region

Prepared by:

Weston Solutions, Inc.

Contract: W91238-06-F-0083

20074.063.017.0020

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Part I	Site Identification, Location and Status				
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Site Names and ID numbers as applicable					
Mine ID:	160				
Map ID:	W34				
CERCLIS:	NNN000909221				
Navajo Abandoned Mine Land Reclamation Program: NA-0124a					
Local name / Aliases: Jack Daniels #1					
Chapter and local area: Coalmine Mesa					
County: Coc	onino	State: Arizor	na		
Lat/Long:	35.928306167	N / -111.4505	86716 W		
Nearby road	and highway:	US-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 surface land status is classified as Tribal Trust Land. Historical documents identified the operator of the mine as Marcy Exploration and Mining Company from 1956 to 1960. No additional historical ownership / lease information was identified in the EPA / AUM database.

Number of residential structures within 200 feet of mine: None

Part II Summary of Radiological Readings

Mine ID: 160

Highest gamma radiation measurement: 72,314 counts per minute (cpm)

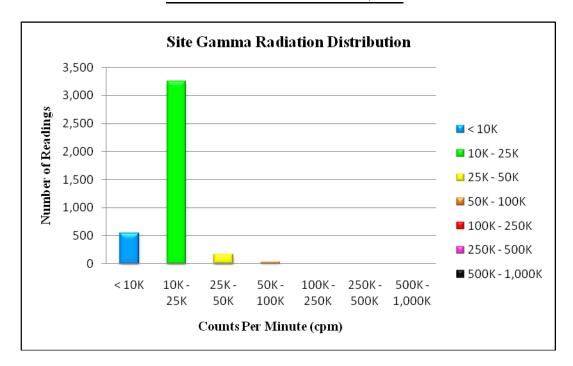
Background Average: 12,163 cpm **Two Times Background:** 24,326 cpm

Describe any other radiological measurements:

A total of 3,991 gamma radiation measurements were collected from the mine site, ranging from 5,878 cpm to 72,314 cpm. The measurements are represented in Figures 1 and 2.

Distribution Chart and Statistics:

Site Gamma Radiation S	Statistics
Number of Readings	3,991
Minimum (cpm)	5,878
Maximum (cpm)	72,314
Mean (cpm)	14,144
Median (cpm)	13,020
Standard Deviation	6,430



Part III Status of Reclamation and Mine Waste

Mine ID: 160

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

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

NAMLRP Project Number: NA-0124a

NAMLRP Mine features: 1 Rim Strip / Pit

The following information was obtained from field observations collected during the 2011 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 reclamation work and status:

Adits:

None observed

Waste Piles:

None observed

Pits:

None observed

Shafts:

None observed

Other Debris and Mine Features:

Reclamation cap, dozed area atop former pond area

Part IV Site Observations and Environs

Observed Residential Structures (number and human habitation status of structures at the following distances from the mine site):

0 to 200 feet: None observed

200 feet to 0.25 mile:

Observed Public or Commercial Structures (schools, clinics, Chapter Houses, places of business and any other structures used by members of the community at the following distances from the mine site):

0 to 200 feet: None observed

200 feet to 0.25 mile: None observed

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

Background levels

Observed Water Sources (number and type of wells and surface water sources that are potentially used for human consumption at the following distances from the mine site):

0 to 0.25 miles: None observed

0.25 miles to 4 miles: Seasonal tributary to Little Colorado River approximately 1.25 mi W of site, Little Colorado River approximately 2 mi S of site

Sensitive Environments (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 (information from interviews with Chapter officials and residents and database review, includes: mine ownership, type of mining operation, period of operation, known amount of production, and any other information provided):

The Jack Daniels No. 1 mine claim consists of an area of 123,646.84 m². The mine was identified as being operational from 1956 to 1960. While operational, the mine had a total reported production volume of 39,440 tons. The mine surface land status is classified as Tribal Trust Land. Historical documents identified the operator of the mine as Marcy Exploration and Mining Company from 1956 to 1960. No additional historical 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? No

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

Part VI Photos



Photo 1: Mine Site #160; Discolored mound



Photo 2: Mine Site #160; Reclamation area

Part VII Contacts Reports and Information

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

