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.

Jim Lee - Richard King Claims AUM Site

Navajo AUM Northern Region

Prepared by:

Weston Solutions, Inc.

Contract: W91238-06-F-0083

12767.063.496.1111

August 2010

| Part I | Site Identification, Location and Status | | | | | | | |
|--|--|---------------|--|--|--|--|--|--|
| Site Names and ID numbers as applicable | | | | | | | | |
| Mine ID: | 279 | | | | | | | |
| Map ID: | N63 | | | | | | | |
| CERCLIS: | NNN000909054 | | | | | | | |
| Navajo Abandoned Mine Land Reclamation Program: NA-0422 | | | | | | | | |
| Local name / and Richard K | | 1; Richard K | ing 1; Jim Lee - Richa | rd King Claims; Jim Lee #1 | | | | |
| Chapter and local area: Beclabito Chapter | | | | | | | | |
| County: Apa | pache State: Arizona | | | | | | | |
| Lat/Long: 36.838509859 N / -109.097723992 W | | | | | | | | |
| Nearby road | and highway: Hi | ighway 64 | Local Post Office: B | eclabito | | | | |
| Surface Land below | Status: check on | ne or more a | nd provide ownershi | p and contact information | | | | |
| Tribal Trust Private Bureau of La State | |] | Public lands Tribal Fee Land Allotment Fee land | | | | | |
| Subsurface M | Iineral Rights: | | | | | | | |
| No information on subsurface mineral rights ownership was found in the EPA/AUM Database. | | | | | | | | |
| Claim and op | erator informatio | on: | | | | | | |
| the operator of | f the mine as Mexo | ona Corp. in | | Historical documents showed Drilling Co. in 1955. No other AUM database. | | | | |
| Number of re | sidential structur | res within 20 | 00 feet of mine: None | , | | | | |

Estimated volume of mine waste onsite: 920 yd^3

Part II Summary of radiological readings

Highest gamma radiation measurement:

345,434 counts per minute (cpm)

Describe any other radiological measurements:

A total of 3,967 gamma radiation measurements were collected from the mine site, ranging from 8,324 cpm to 345,434 cpm. Measurements collected in the vicinity of the waste debris were found at levels ranging from approximately 50,000 cpm to 330,000 cpm, and near the adits at levels ranging from approximately 50,000 cpm to 115,000 cpm. The measurements are represented in Figures 1 and 2.

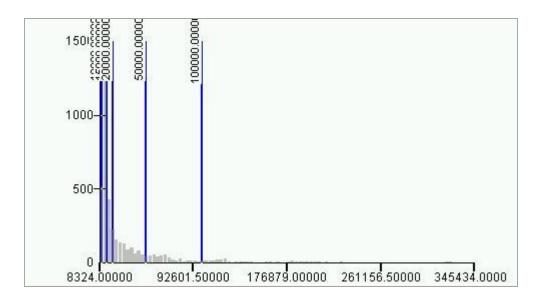
Background Locations

Average background = 11,580 cpm

#1 11,580 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:
 3967

 Minimum:
 8324,00000

 Maximum:
 345434,00000

 Sum:
 138106386,00000

 Mean:
 34813,81044

 Median:
 16264,00000

 Standard Deviation:
 43961,01609

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: Yes Waste Pile onsite: No

NAMLRP Project Number: NA-0422

NAMLRP Mine features: 2 Portals, 1 Rim Strip / Pit, 3 Prospects

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 reclamation work and status:

Adits

Three adits, each with stone reclamation seals: adit 1 was approximately 15' x 10'; adit 2 was approximately 20' x 10'; adit 3 was approximately 12' x 6'

Waste Piles

Four waste piles were noted onsite, all of which appeared to be unreclaimed: two waste piles bordering the ruined mining road on the way into the site; the larger waste pile was 30' x 12' x 4'; the smaller waste pile was 10' x 20' x 1.5'; two additional waste piles were observed extending down the slope immediately beneath adits; waste pile beneath adit 2 measured 40' x 40' x 10'; waste pile beneath adit 3 measured 30' x 80' x 3'

Pits

None

Shafts

None

Other Debris and Mine Features

None

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

Jim Lee - Richard King Claims mine is actually two separate mines; Jim Lee No. 1 and Richard King No. 1. These mines are co-located and their production combined over their year of operation in 1955. Together, the mine occupies an area of 17,618.76 m². Historical documents showed the operator of the mine as Mexona Corp. in 1955, and G.B. Cree Drilling Co. in 1955. While operational, the mine had a total reported production volume of 177 tons. No other historical information or any additional ownership / lease information was identified in the EPA/AUM database.

Part V Response Action Summary

Site Name(s): Jim Lee - Richard King Claims **Chapter:** Beclabito

Decision Criteria

Is there an unreclaimed waste pile at the site? Yes

At what distance from the waste pile is the nearest residential structure located? None

At what distances from the waste pile are there potential drinking water sources? None

Is there a reclamation cap or sealed adit in place at the site? Yes

Is the cap/seal functionally intact? Yes

Is the cap/seal sufficiently degraded to create a concern about releases? No

At what distance from the cap/seal is the nearest domestic structure located? None

At what distance from the cap/seal is the nearest domestic drinking water source? None

Summary of emergency response factors

None

Summary hazard ranking system factors

None

Summary of reclamation factors

3 sealed adits; unreclaimed waste piles

Part VI Photos



Photo 1. Large waste pile



Photo 2. Waste pile and rock wall



Photo 3. Adit with stone reclamation seal

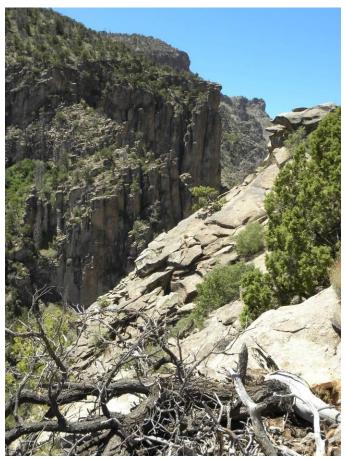


Photo 4. Jim Lee - Richard King Claims mine site

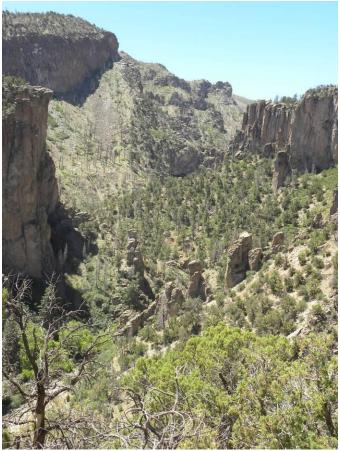


Photo 5. Jim Lee - Richard King Claims mine site



Photo 6. Adit with stone reclamation seal

August 2010



Photo 7. Large waste pile extending down slope



Photo 8. Adit with stone reclamation seal



Photo 9. Waste pile extending down slope

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 Name____ Title or official role (if any) _____ Address__ Telephone number____ Information provided_____ Name____

| NT | | | |
|------|--|--|--|
| Name | | | |

Title or official role (if any)

Telephone number_____

Title or official role (if any)

Telephone number_____

Information provided_____

Information provided_____

Figure 1 - Gamma Radiation Measurements, Above Two Times Background
Jim Lee - Richard King Claims (279)
Beclabito Chapter, Navajo Nation

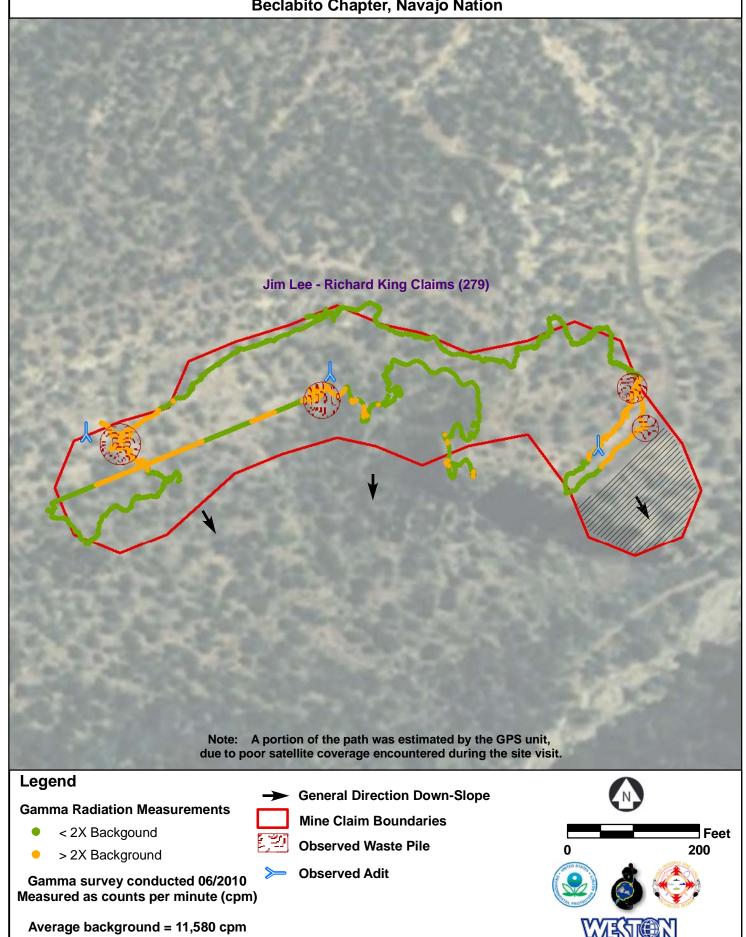
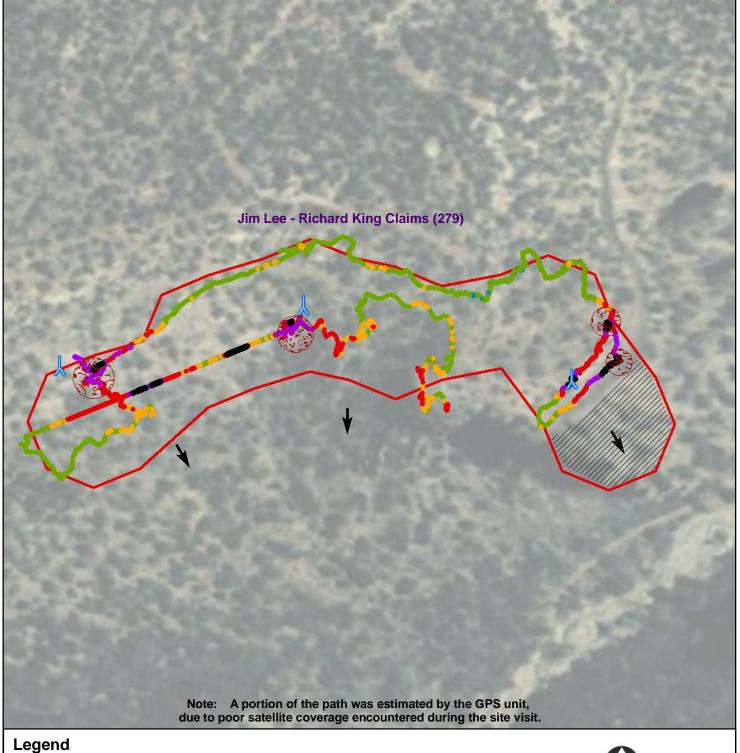


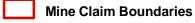
Figure 2 - Gamma Radiation Measurements Jim Lee - Richard King Claims (279) Beclabito Chapter, Navajo Nation



Gamma Radiation Measurements

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

→ General Direction Down-Slope



Observed Waste Pile

Observed Adit

Gamma survey conducted 06/2010 Measured as counts per minute (cpm)

Average background 11,580 cpm

