EPA-R9-2015-010125 Production VOL002

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.

Bibo Trespass AUM Site

Navajo AUM Eastern Region

Prepared by:

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Contract: W91238-06-F-0083

12767.063.496.1111

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ED_000571_00012612-00001

Part I Site Identification, Location and Status

Site Names and ID numbers as applicable

Mine ID: 1034

Map ID: E80

CERCLIS: NNN 000 908 698

NAMLRP: NOT ASSIGNED

New Mexico Mining and Mineral Division ID: NM0047

New Mexico Bureau of Geology and Mineral Resources: NMMK0081, 0077, 0080

Local name / Aliases: Haystack No. 2, MLB-NM-B-1, Arthur Bibo, Bibo, Bilba

Chapter and local area: Baca/Haystack Chapter

Lat/Long: 35.3495228711 N / -107.94863969 W

Nearby road and highway: Haystack Road (BIA 23), Red Mountain Road (BIA 41)

Local Post Office: Prewitt, NM

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:

The Bibo Trespass mine site property is classified as Public Land Ordinance 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: 1 house approximately 330 feet east of the; 1 house approximately 700 feet southwest of site, 1 house approximately 1000 feet east of site.

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):

- 2 houses southeast of site – measured at 11,140 counts per minute (cpm)
- House south of site – measured at 8,257 cpm

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 located approximately 2.5 miles northwest of sites

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.

The Bibo Trespass mine consists of an area of 90,147.16 square meters. Any historical information pertaining to mining operations and historical ownership of the mine site appeared to be unclear.

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. The mine appears to have been reclaimed by dirt covering waste piles. Signs were posted warning of underground radiological hazards. The signs were faded and nearly illegible. No adits or other mine features were observed during the site visit.

Part IV Summary of radiological readings

Background Locations
#1 10.485 cpm

Mine site: Bibo Trespass
- See Figures 1 and 2

Nearby Structure Perimeter – None

Describe any other radiological measurements:
1,095 gamma radiation measurements were collected from mine sites, ranging from 6,552 cpm to 89,750 cpm. Measurements were found at their highest along the dirt road transecting the site. The measurements are represented in Figures 1 and 2.

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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

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Part VI Response Action Summary

Site Name(s): Bibo Trespass **Chapter:** Baca/Haystack

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? 300 ft.

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?
Three residences are located within ¼ mile of the mine.

At what distance from the cap/seal is the nearest domestic drinking water source? 2.5 miles

Summary of emergency response factors

Gamma radiation at greater than two-times background was found at the site, and three residences are located within ¼ mile of the mine. No drinking water sources were found in the vicinityof the site.

Summary hazard ranking system factors

None

Summary of reclamation factors

No known reclamation

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Part VII Photos

Photo 1. Bibo Trespass mine site, towards the south

Photo 2.Bibo Trespass mine site, towards the east

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Part VIII Contacts Reports and Information

Name Tom and Lena Vandever

Title or official role (if any) resident

Telephone number POB 518 Prewitt, NM 87045

Information provided Lives adjacent to the mine. His father is Brown Vandever who lives next door just off of mine (POB 262 Prewitt, NM 87045

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

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Name

Title or official role (if any)

Telephone number

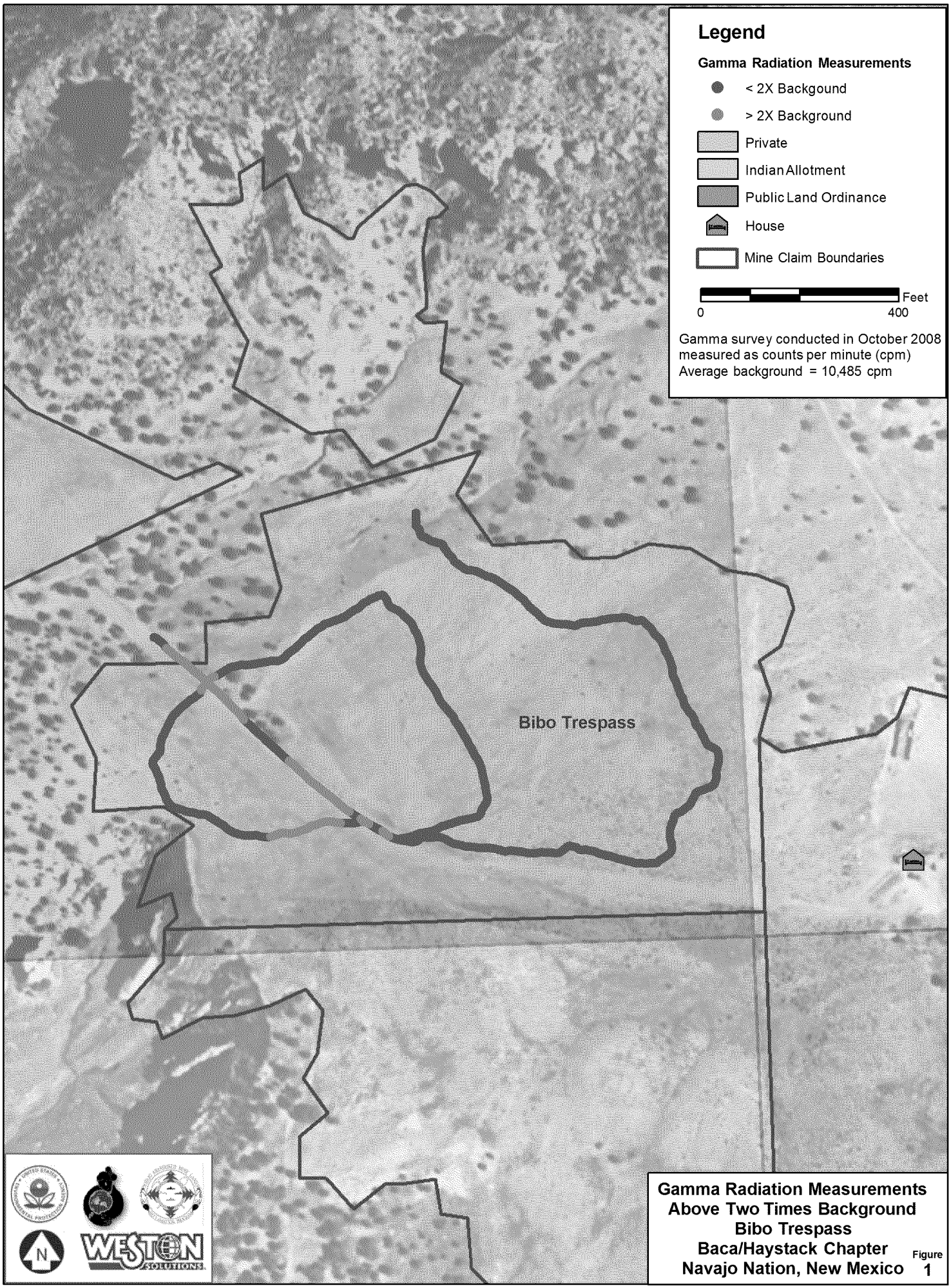
Information provided

Name

Title or official role (if any)

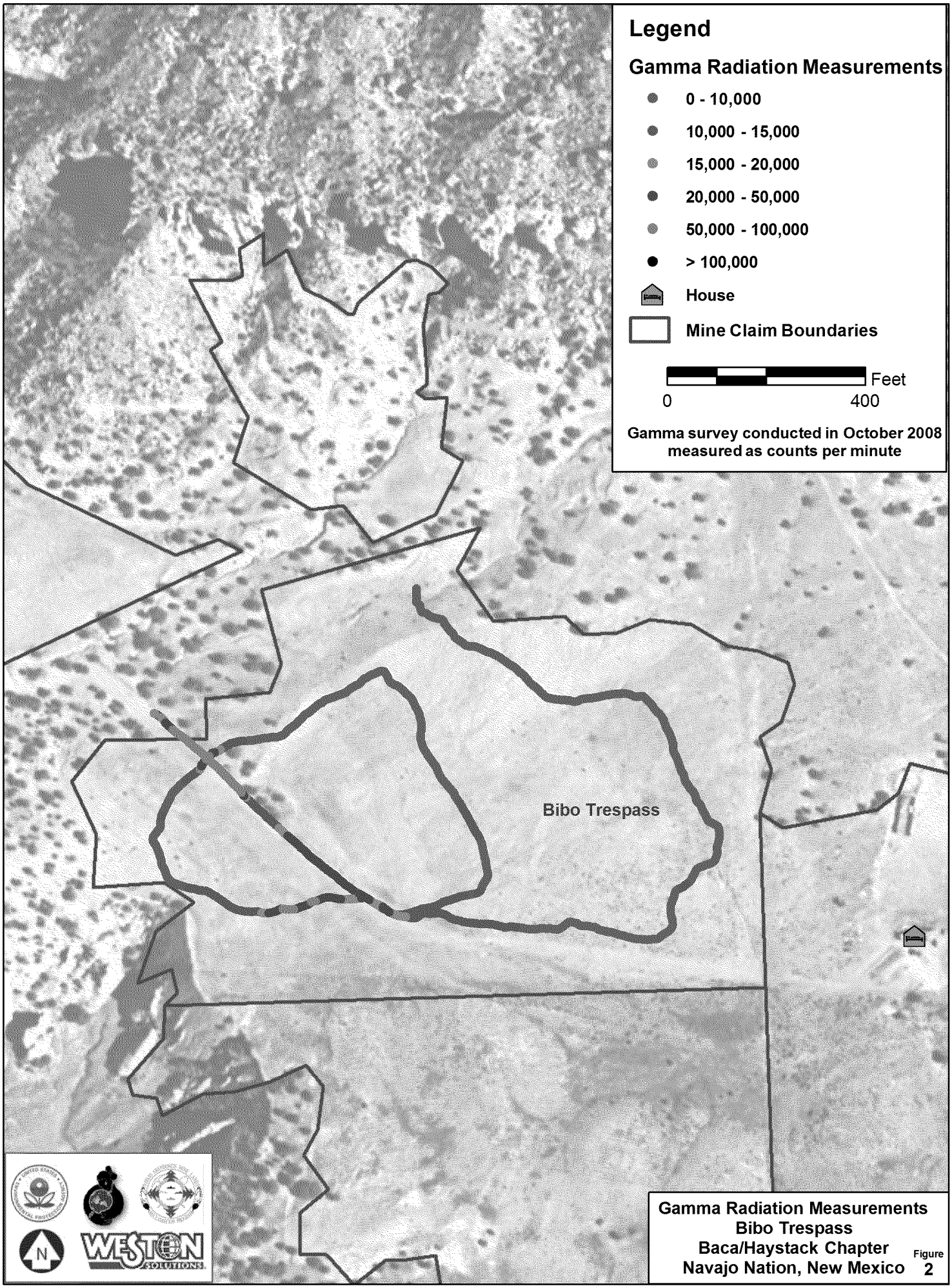
Telephone number

Information provided



Gamma Radiation Measurements Above Two Times Background Bibo Trespass Baca/Haystack Chapter Navajo Nation, New Mexico

Figure 1



Gamma Radiation Measurements
Bibo Trespass
Baca/Haystack Chapter
Navajo Nation, New Mexico

Figure 2