EPA-R9-2015-010125 Production VOL001

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.

Haystack No. 2 AUM Site

Navajo AUM Eastern Region

Prepared by:

Weston Solutions, Inc.

Contract: W91238-06-F-0083

12767.063.496.1111

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Part I Site Identification, Location and Status

Site Names and ID numbers as applicable

Mine ID: 341

Map ID: E78

CERCLIS: NNN 000 908 721

NAMLRP: NOT ASSIGNED

New Mexico Mining and Mineral Division ID: NM0061

New Mexico Bureau of Geology and Mineral Resources: NMMK0079, 0078

Local name / Aliases: Haystack No.1, Section 13 Pit, Railroad Section

Chapter and local area: Baca/Haystack Chapter

Lat/Long: 35.3530482089 N / -107.959622714 W

Nearby road and highway: Haystack Road, Interstate 40 **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:

No ownership was identified. The mine site property is classified as private land, but no residences were found within 0.25 miles of the site

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: 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 located approximately 2.75 miles northwest of 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, period of operation, and type of mining operation.

The Haystack No. 2 mine consists of an area of 44,584.47 square meters. Any historical information pertaining to mining operations and historical ownership of the mine site appeared to be unclear.

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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 sites are currently unknown. No visible signs of reclamation were observed. A large recessed area in the center of the site may have been used as an open pit (Photo 2). No waste piles, adits, or other mine features were observed during the site visit.

Part IV Summary of radiological readings

Background Locations

#1 8,304 cpm
#2 9,414 cpm

Mine site: Haystack No. 2
- See Figures 1 and 2

Nearby Structure Perimeter – None

Describe any other radiological measurements:

A total of 1,210 gamma radiation measurements were collected from the mine site, ranging from 6,155 cpm to 32,732 cpm. The measurements are represented in Figures 1 and 2. Radiological measurements collected for the New Mexico Mining and Minerals Division during a 2008 field screening survey found gamma radiation levels near the ground surface with a maximum of 90 micro Roentgen per hour (μR/hr) and a minimum of 10 μR/hr, levels at the 4-foot elevation with a maximum of 60 μR/hr and a minimum of 9 μR/hr, and background levels of 10 μR/hr.

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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): Haystack No. 2 **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? 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

None

Summary of reclamation factors

No known reclamation

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Part VII Photos

Photo 1. Haystack No 2 mine site, towards the west

Photo 2. Haystack No 2 mine site and open recessed area, towards the north

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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

Information provided General Background and Contact/Access Information

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Name Susan A. Lucas Kamat

Title or official role (if any) AUM Data Manager – New Mexico Mining & Mineral Division

Telephone number (505) 476-3408 fx: (505) 476-3408

Information provided Background information and findings from 2008 New Mexico MMD Survey of mining sites.

Name

Title or official role (if any)

Telephone number

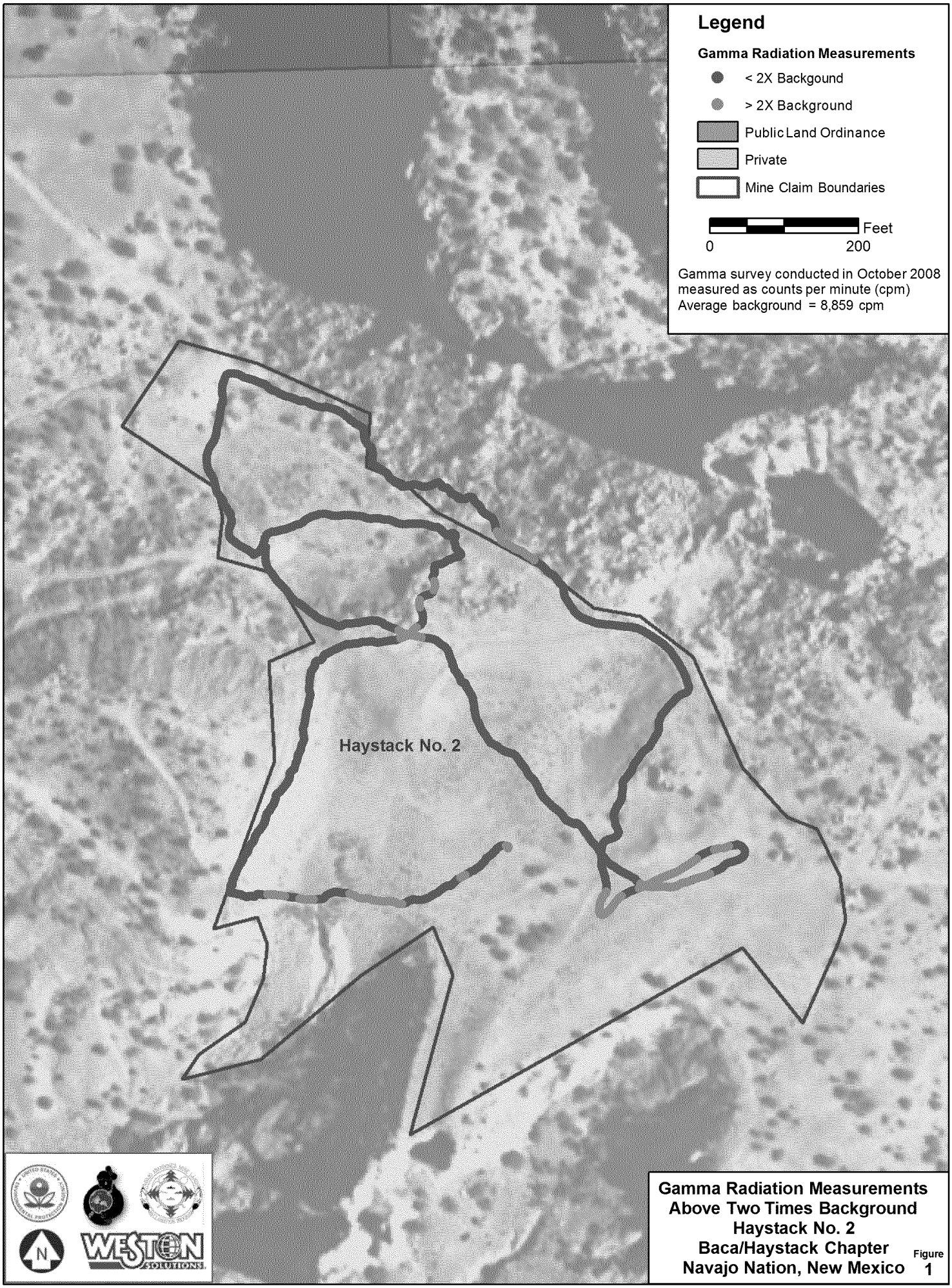
Information provided

Name

Title or official role (if any)

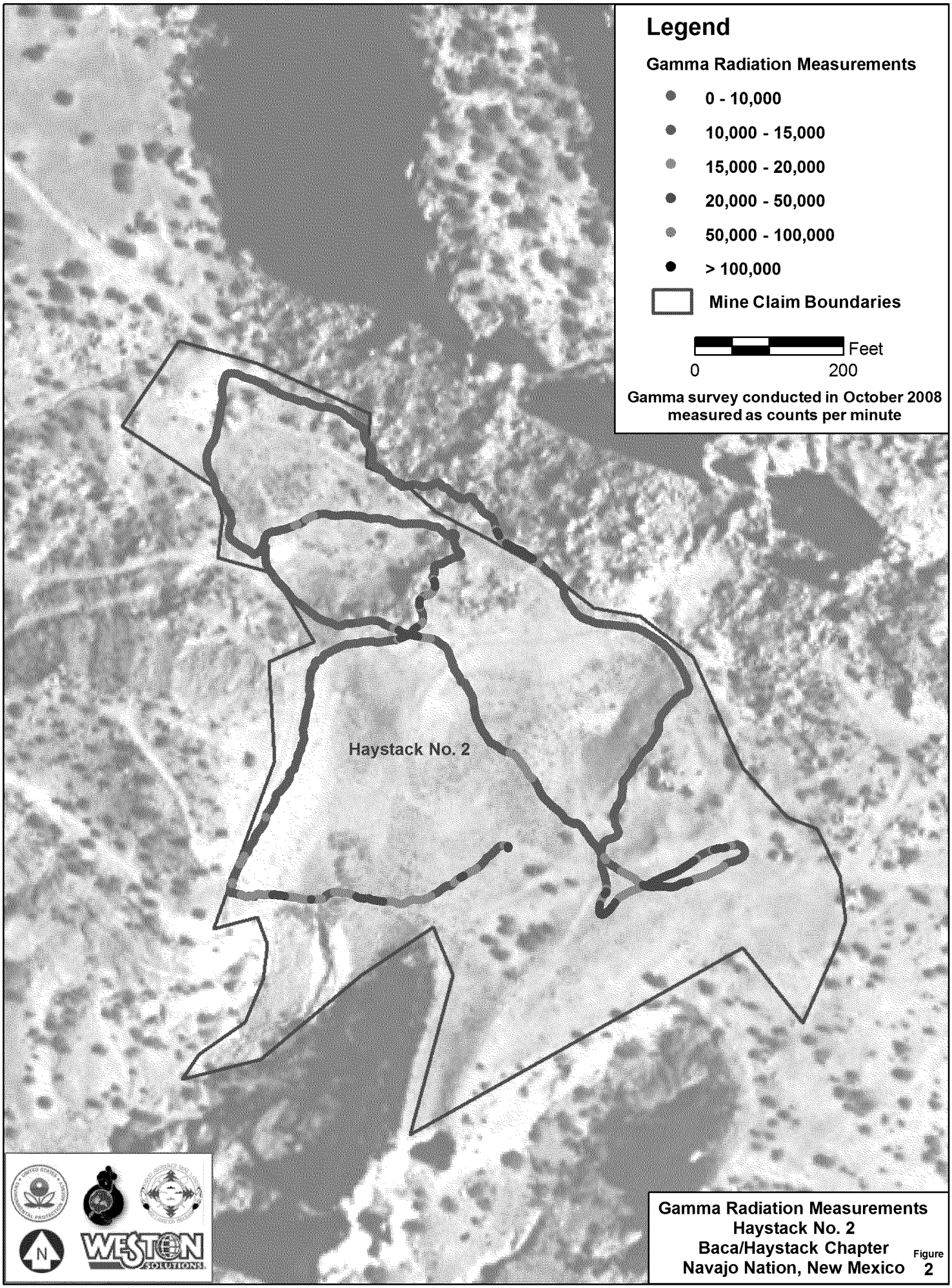
Telephone number

Information provided



Gamma Radiation Measurements Above Two Times Background Haystack No. 2 Baca/Haystack Chapter Navajo Nation, New Mexico

Figure 1



Gamma Radiation Measurements
Haystack No. 2
Baca/Haystack Chapter
Navajo Nation, New Mexico

Figure 2