

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 Mines 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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Part I Site Identification, Location and Status

Site Names and ID numbers as applicable

Mine ID: 342, 345, 1038, 1039

Map ID: E79 (342), E77 (345), E102 (1039), E103 (1038)

CERCLIS: NNN 000 908 719

NAMLRP: NOT ASSIGNED

New Mexico Mining and Mineral Division ID: (342)-NM0047, (345) NM0061, (1039) NM0061, (1038) NM0061

New Mexico Bureau of Geology and Mineral Resources: (342)-NMMK0081, 0077, 0080; (345)-NM0079, 0078; (1039)- NM0079, 0078; (1038)- NM0079,0078

Local name / Aliases: Haystack, DOE Lease NM-1-B, Section 13, Railroad Section, Arthur Bibo

Chapter and local area: Baca / Haystack Chapter

Lat/Long: 35.3511399598 N / -107.952383202 W (#342)
35.3578843120 N / -107.961126193 W (#345)
35.3515474488 N / -107.946412575 W (#1039)
35.3518280017 N / -107.949355001 W (#1038)

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** (ID# 1039)
- Fee Land**
- Public lands** (ID#s 342, 345, 1038)
- Private**
- Bureau of Land Mgmt**
- State**

Ownership and contact information:

No ownership was identified. The mine site properties were classified as Indian Allotment and Public Land Ordinance.

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 is currently unknown. No visible signs of reclamation were observed. No waste piles, adits, pits, or other mine features were observed during the site visits, as is consistent with the residents claim that the mine was underground, and no open-pit mining was ever conducted at the sites. Openings/adits were observed in the vicinity of the mine sites, including an open hole was observed approximately 450 feet south of site 1039, residents reported that the hole was not dug from the surface, but created from subsidence from the underground mining operation. Another large opening was observed approximately 0.25 miles east of site 1039, in the center of the Section 18 (ID# 343) mine site. A mine shaft entrance was also observed along the western edge of Section 18, approximately 800 feet west of site 1039. Residents also reported that many openings/shafts are present within the hillsides surrounding the sites. Several water pipe and valves were observed within site 1039, but these are not believed to be used for drinking water, and are not known to be originated at the mine sites.

Part IV Summary of radiological readings

Background Locations

- #1 8,663 cpm
- #2 9,698 cpm
- #3 10,485 cpm

Mine site: 342

- See Figures 1 and 2

Mine site: 345

- See Figures 1 and 2

Mine site: 1038

- See Figures 1 and 2

Mine site: 1039

- See Figures 1 and 2

Nearby Structure Perimeter – Houses southeast of 1039

- #1 8,780 cpm
- #2 13,500 cpm

Nearby Structure Perimeter – House south of 342

- #1 8,257

Describe any other radiological measurements:

A total of 2,223 gamma radiation measurements were collected from the mine sites, ranging from 6,074 cpm to 33,870 cpm. The measurements are represented in Figures 1 and 2.

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

Part VI Response Action Summary

Site Name(s): Haystack (342, 345, 1038, 1039) **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?

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

Summary hazard ranking system factors

Summary of reclamation factors

No known reclamation

Haystack

Part VII Photos



Photo 1. Haystack mine site 345, towards the north



Photo 2. Haystack mine site 345, towards the north/northwest



Photo 3. Haystack mine site 1039, towards the south



Photo 5. Haystack mine site 1039, water pipe, towards the south



Photo 6. Haystack mine site 342, towards the northwest



Photo 7. Haystack mine site 1038, towards the north



Photo 8. Haystack mine site 1038, towards the north

Part VIII Contacts Reports and Information

Name

Title or official role (if any)

Telephone number

Information provided

Name

Title or official role (if any)

Telephone number

Information provided

Name Stanley Edison

Title or official role (if any) Navajo EPA Superfund Program

Address PO Box 2946, Window Rock, AZ 86515

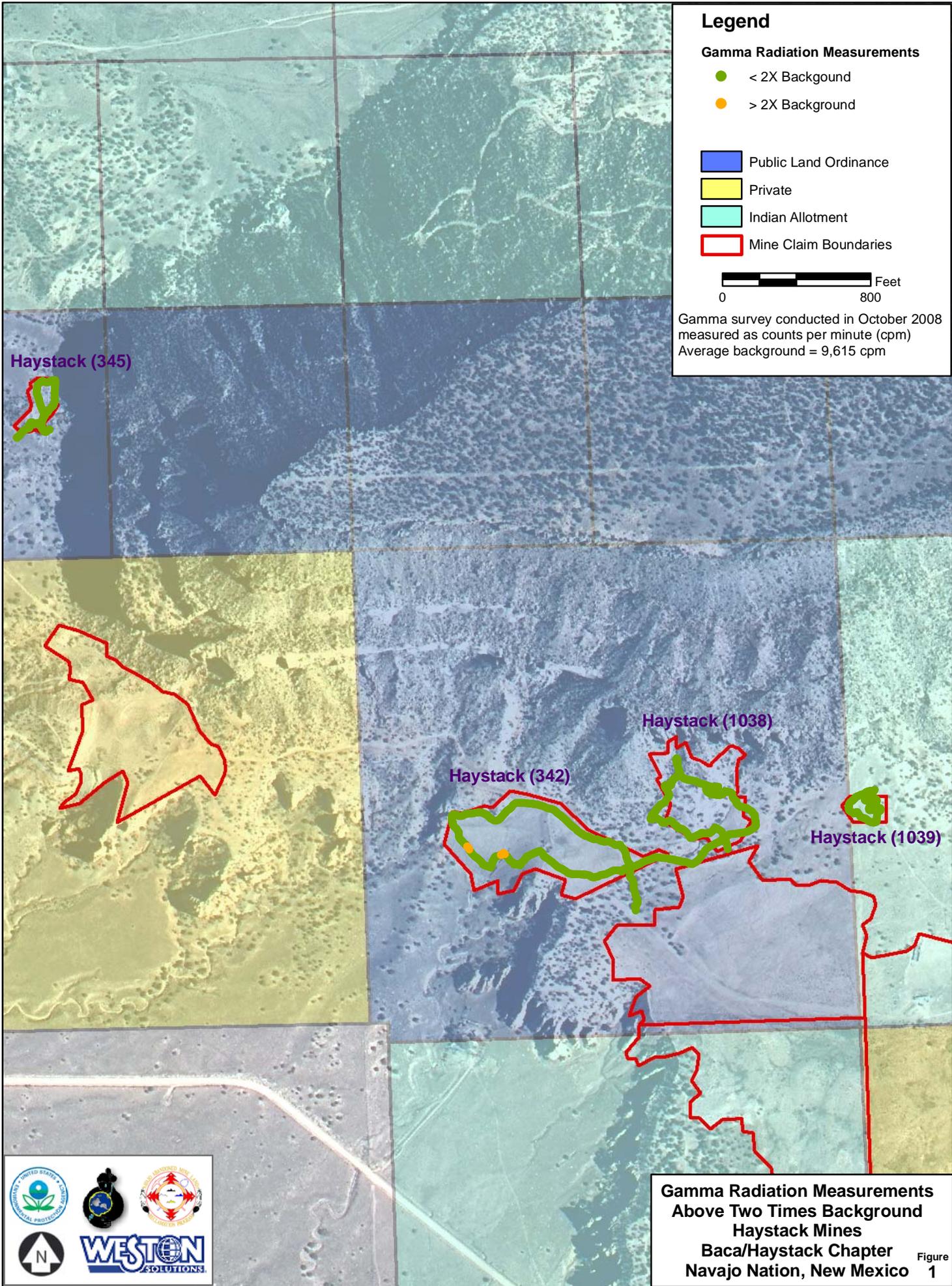
Information provided General Background and Contact/Access Information

Name Ms George Padilla

Title or official role (if any) Regional Environmental Scientist, BIA, Navajo Nation

Telephone number (505) 863-8434

Address PO Box 1060, Gallup, NM 87305



Legend

Gamma Radiation Measurements

- <math>< 2\times</math> Background
- > 2X Background

- Public Land Ordinance
- Private
- Indian Allotment
- Mine Claim Boundaries

0 800 Feet

Gamma survey conducted in October 2008
 measured as counts per minute (cpm)
 Average background = 9,615 cpm

Haystack (345)

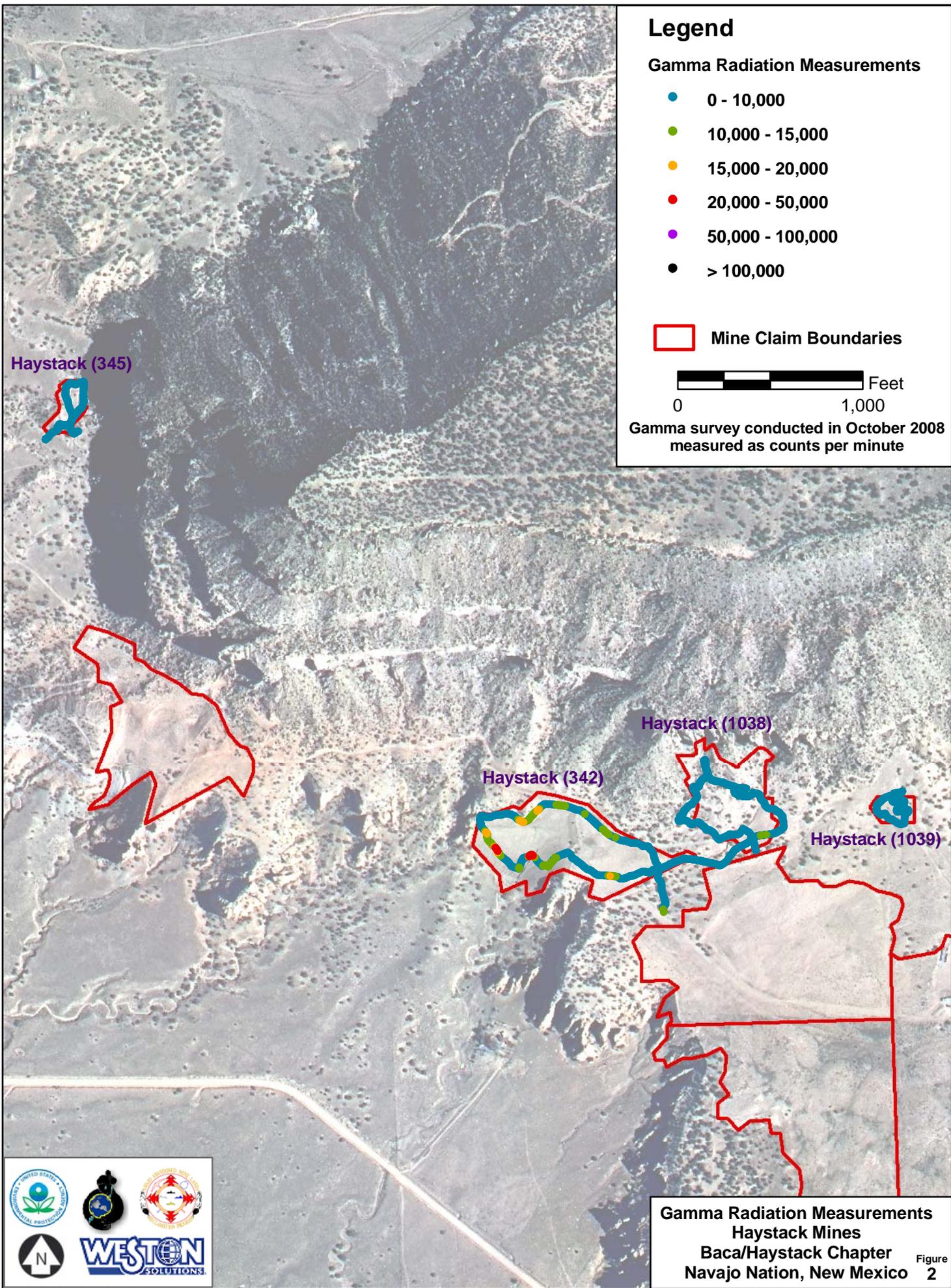
Haystack (1038)

Haystack (342)

Haystack (1039)



Gamma Radiation Measurements Above Two Times Background Haystack Mines
Baca/Haystack Chapter Navajo Nation, New Mexico Figure 1



Legend

Gamma Radiation Measurements

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

Mine Claim Boundaries

0 1,000 Feet

Gamma survey conducted in October 2008
measured as counts per minute

Haystack (345)

Haystack (1038)

Haystack (342)

Haystack (1039)



**Gamma Radiation Measurements
Haystack Mines
Baca/Haystack Chapter
Navajo Nation, New Mexico** Figure 2