

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.

NE Churchrock Quivira Mines (No. 2)

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: 306

Map ID: E3

CERCLIS: NNS FN0 905 492

NAMLRP: NOT ASSIGNED

New Mexico Mining and Mineral Division ID: NM0063

New Mexico Bureau of Geology and Mineral Resources: NMMK0114

Local name / Aliases: Kerr-McGee Quivira

Chapter and local area: Coyote Canyon Chapter

Lat/Long: 35.6775488709 N / -108.526235754 W

Nearby road and highway: Red Water Pond Road, Route 566

Local Post Office: Church Rock, 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 Navajo Tribal Trust land, but no residences were found within 0.25 miles of the site

Part II Site Observations

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

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:** nearest well is located 1.15 miles to the southeast

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 NE Churchrock Quivira Mines (No. 2) site consists of an area of 39,734.87 square meters. Any historical information pertaining to mining operations and historical ownership of the mine site appeared to be unclear. Navajo EPA reports that no mining occurred at this site.

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. No waste piles, adits, or other mine features were observed during the site visit. Several areas were fenced off. Several 2-foot square concrete pads were at the site and may be monitoring wells.

Part IV Summary of radiological readings**Background Locations**

#1 7,194 cpm

#2 6,742 cpm

#3 6,493 cpm

Mine site: NE Church Rock No. 2

- See Figures 1 and 2

Nearby Structure Perimeter – None

Describe any other radiological measurements:

A total of 1,929 gamma radiation measurements were collected from mine sites, ranging from 5,203 cpm to 13,437 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): NE Churchrock Quivira Mines (No. 2) **Chapter:** Coyote Canyon

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? Unknown

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? 1 mile to the southeast

At what distance from the cap/seal is the nearest domestic drinking water source? 1.2 miles to the southeast

Summary of emergency response factors

None

Summary hazard ranking system factors

None

Summary of reclamation factors

No known reclamation

Part VII Photos



Photo 1: NE Churchrock Quivira Mines (No.2), toward the south



Photo 2: Depression in land surface



Photo 3: Central portion of mine, towards the south.



Photo 4: One of several cattle grazing at the mine site.

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

Telephone number 928-871-6861

Information provided General Background and Contact/Access Information

Name _____

Title or official role (if any) _____

Telephone number _____

Information provided _____

Name _____

Title or official role (if any) _____

Telephone number _____

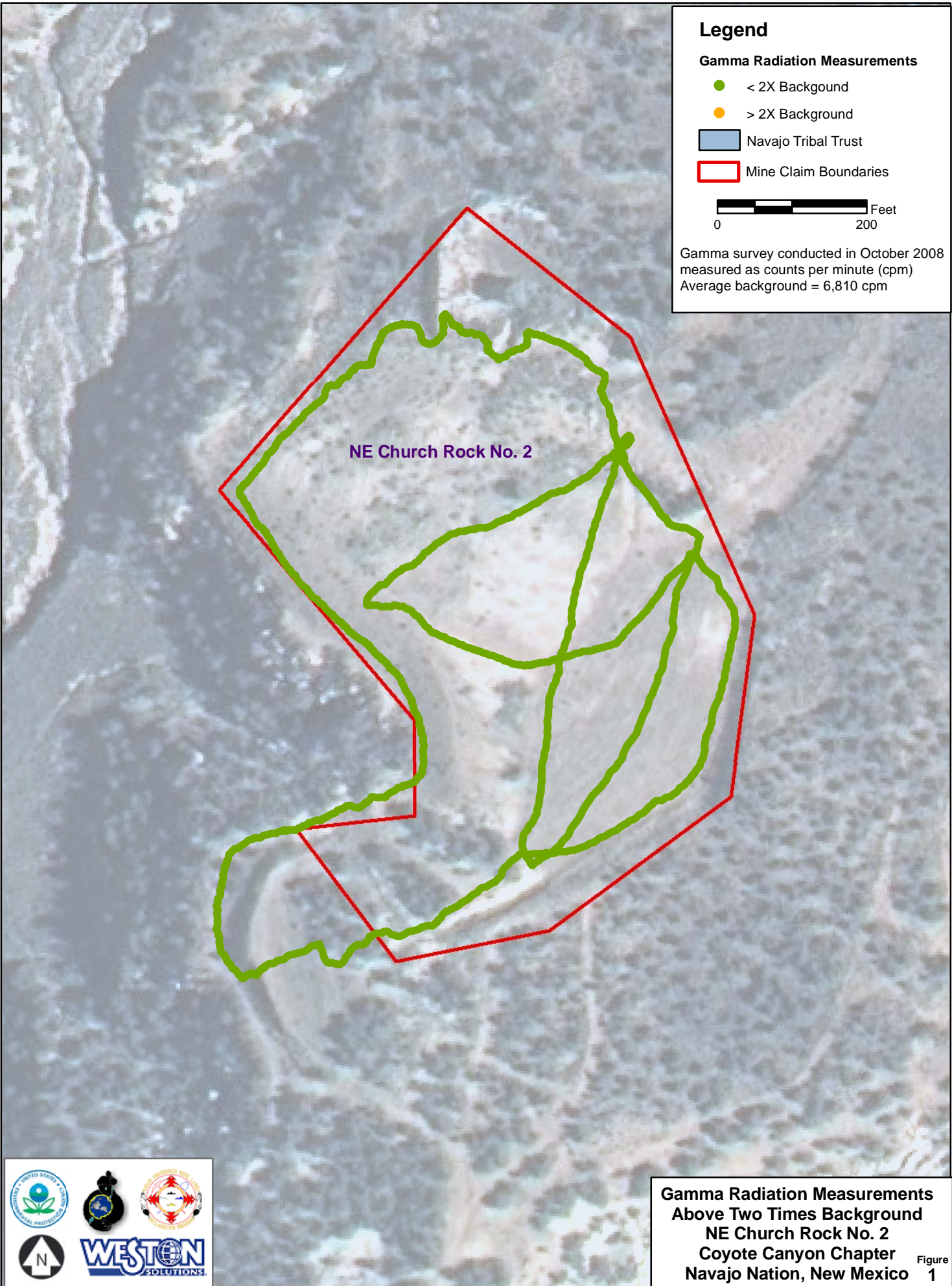
Information provided _____

Name _____

Title or official role (if any) _____

Telephone number _____

Information provided _____



Legend

Gamma Radiation Measurements

- < 2X Background
- > 2X Background

Navajo Tribal Trust

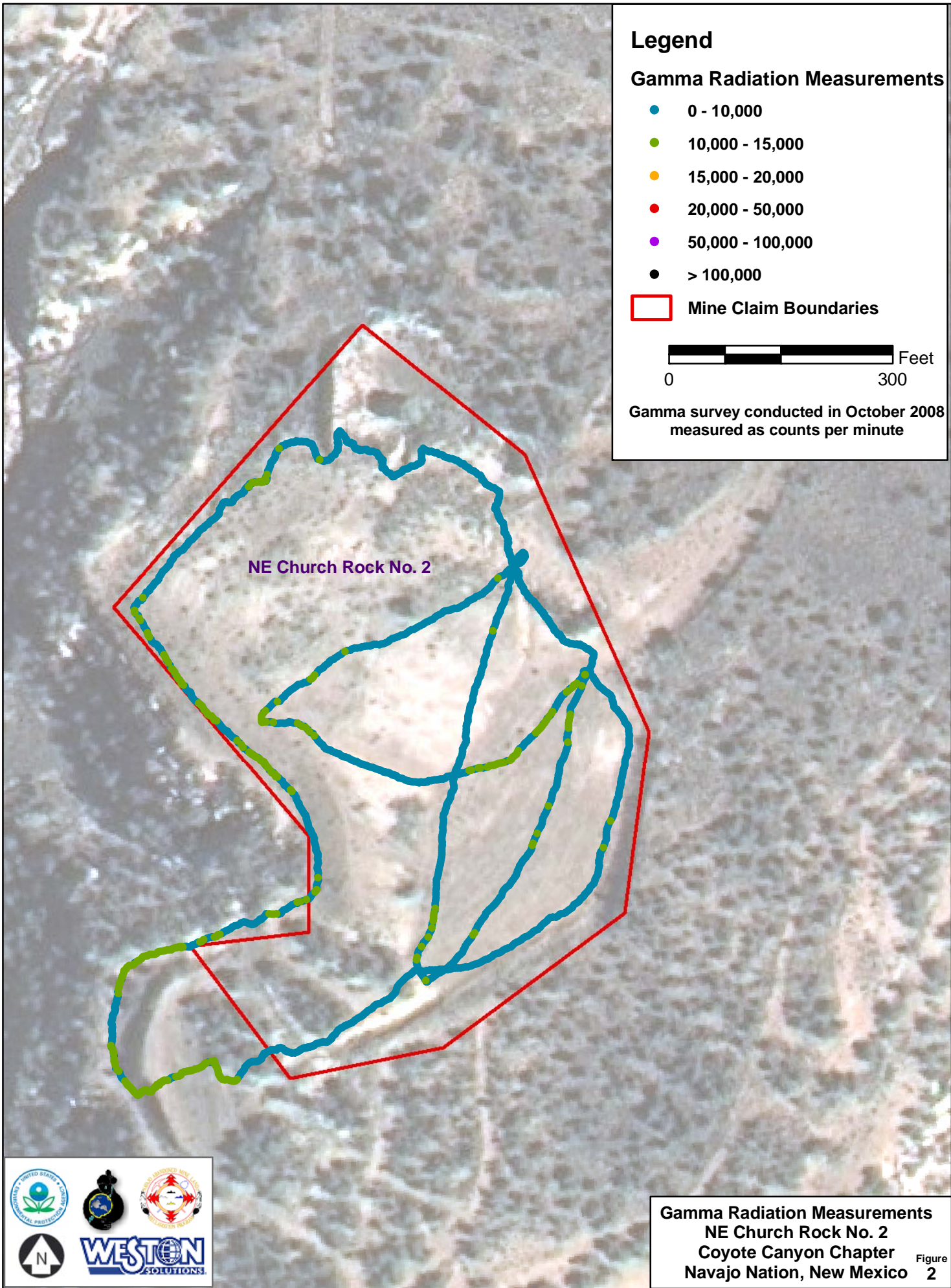
Mine Claim Boundaries

0 200 Feet

Gamma survey conducted in October 2008
 measured as counts per minute (cpm)
 Average background = 6,810 cpm

NE Church Rock No. 2

**Gamma Radiation Measurements
 Above Two Times Background
 NE Church Rock No. 2
 Coyote Canyon 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

0 300 Feet

Gamma survey conducted in October 2008
measured as counts per minute

NE Church Rock No. 2



Gamma Radiation Measurements
NE Church Rock No. 2
Coyote Canyon Chapter
Navajo Nation, New Mexico Figure 2