

Exploration Areas of the North Central AUM Region



Data format: Shapefile

File or table name: NC_Exploration_Areas

Coordinate system: Universal Transverse Mercator

Theme keywords: Exploration Drilling Areas, Uranium Mining

Abstract: This is a polygon dataset that maps the extent of exploration areas within the North Central AUM Region of the Navajo Nation. This was automated entirely from Malan, Roger C., 1964 (S04290701), "Figure 5 - Exploratory drilling in the Monument Valley district, Utah - Arizona" (U.S. Atomic Energy Commission). This dataset identifies areas where exploration drilling for uranium has occurred (as of July, 1964)

FGDC and ESRI Metadata:

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Metadata elements shown with blue text are defined in the Federal Geographic Data Committee's (FGDC) [Content Standard for Digital Geospatial Metadata \(CSDGM\)](#). Elements shown with green text are defined in the [ESRI Profile of the CSDGM](#). Elements shown with a green asterisk (*) will be automatically updated by ArcCatalog. ArcCatalog adds hints indicating which FGDC elements are mandatory; these are shown with gray text.

Identification Information:

Citation:

Citation information:

Originators: Malan, 1964

Title:

Exploration Areas of the North Central AUM Region

***File or table name:** NC_Exploration_Areas

Publication date: July, 1964

***Geospatial data presentation form:** vector digital data

Publication information:

Publisher: US Atomic Energy Commission

***Online linkage:**

\\Terra_dc\Navajo\NAUM_NN_Summary\DB\AUM\NC_Exploration_Areas.shp

Description:**Abstract:**

This is a polygon dataset that maps the extent of exploration areas within the North Central AUM Region of the Navajo Nation. This was automated entirely from Malan, Roger C., 1964 (S04290701), "Figure 5 - Exploratory drilling in the Monument Valley district, Utah - Arizona" (U.S. Atomic Energy Commission). This dataset identifies areas where exploration drilling for uranium has occurred (as of July, 1964)

Purpose:

This dataset was developed to support the U.S. Environmental Protection Agency (USEPA) in its undertaking of an extensive scientific study to determine if abandoned uranium mines (AUM) and related mine features pose a significant risk to human health and the environment, and to identify areas requiring action to reduce risk for the Navajo Nation.

***Language of dataset:** en

Time period of content:**Time period information:****Single date/time:**

Calendar date: July, 1964

Currentness reference:

ground condition

Status:

Progress: Complete

Maintenance and update frequency: None planned

Spatial domain:**Bounding coordinates:**

***West bounding coordinate:** -110.607357

***East bounding coordinate:** -109.815505

***North bounding coordinate:** 37.250697

***South bounding coordinate:** 36.780631

Local bounding coordinates:

***Left bounding coordinate:** 535033.623740

***Right bounding coordinate:** 605053.995287

***Top bounding coordinate:** 4122756.672977

***Bottom bounding coordinate:** 4071183.843252

Keywords:**Theme:**

Theme keywords: Exploration Drilling Areas, Uranium Mining

Theme keyword thesaurus: None

Place:

Place keywords: North Central AUM Region, Navajo Nation, Arizona, Utah, United States, Monument Valley District

Place keyword thesaurus: None

Access constraints: None

Use constraints:

These exploration areas are solely identified based upon Malan, 1964. These are located only in the North Central AUM Region of the Navajo Nation.

Use of this data generally requires computer workstations with ESRI's Arc/Info (8.x or above), ArcGIS (8.x or above), or ArcView (3.x), or some other GIS or CAD software that is capable of reading or converting this dataset.

The data are provided "as-is," without warranty of any kind, either express or implied.

These data have been compiled as part of a desktop project to collect existing spatial data to support the study of Navajo abandoned uranium mines. No field verifications were undertaken as part of this desktop study.

Point of contact:

Contact information:

Contact organization primary:

Contact organization: U. S. Environmental Protection Agency, Region 9, Superfund Program

Contact address:

Address type: mailing and physical address

Address:

75 Hawthorne St (SFD 8-2)

City: San Francisco

State or province: CA

Postal code: 94105

Country: USA

Contact voice telephone: 415-972-3167

Security information:

Security classification system: None

***Native dataset format:** Shapefile

***Native data set environment:**

Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 2; ESRI ArcCatalog 9.1.0.780

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Data Quality Information:

Attribute accuracy:

Attribute accuracy report:

Checked against the data source - Malan, 1964.

Completeness report:

These exploration areas are solely identified based upon Malan, 1964. These are located only in the North Central AUM Region of the Navajo Nation.

Positional accuracy:

Horizontal positional accuracy:

Horizontal positional accuracy report:

No more accurate than the large scale map Malan, 1964.

Lineage:**Source information:**

Type of source media: paper

Source citation abbreviation:

Malan

Source contribution:

Malan, Roger C., 1964 (S04290701), "Figure 5 - Exploratory drilling in the Monument Valley district, Utah - Arizona" (U.S. Atomic Energy Commission)

Process step:**Process description:**

Malan's 1964 Figure 5 was georeferenced. An empty polygon coverage with the following attributes was prepared:

Source - where S04290701 is Malan, 1964; S04290701, DOQQ is Malan updated by photointerpretation of USGS 1990's vintage B&W DOQQs; and DOQQ are areas mapped solely by photointerpretation of USGS 1990's vintage B&W DOQQs.

Comment - automation comments

The exploration areas were digitized and source information was populated.

Process software and version: ESRI ArcGIS 9.1

Process date: July 2007

Source used citation abbreviation:

Malan

Process contact:**Contact information:****Contact organization primary:**

Contact organization: TerraSpectra Geomatics

Contact address:

Address type: mailing and physical address

Address:

2700 E Sunset Rd, Ste A-10

City: Las Vegas

State or province: NV

Postal code: 89120

Country: USA

Contact voice telephone: 702-795-8254

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Spatial Data Organization Information:

***Direct spatial reference method:** Vector

Point and vector object information:

SDTS terms description:

- ***Name:** NC_Exploration_Areas
- ***SDTS point and vector object type:** G-polygon
- ***Point and vector object count:** 156

ESRI terms description:

- ***Name:** NC_Exploration_Areas
- ***ESRI feature type:** Simple
- ***ESRI feature geometry:** Polygon
- ***ESRI topology:** FALSE
- ***ESRI feature count:** 156
- ***Spatial index:** TRUE
- ***Linear referencing:** FALSE

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Spatial Reference Information:

Horizontal coordinate system definition:

Coordinate system name:

- ***Projected coordinate system name:** NAD_1983_UTM_Zone_12N
- ***Geographic coordinate system name:** GCS_North_American_1983

Planar:

Grid coordinate system:

- ***Grid coordinate system name:** Universal Transverse Mercator

Universal Transverse Mercator:

- ***UTM zone number:** 12

Transverse mercator:

- ***Scale factor at central meridian:** 0.999600
- ***Longitude of central meridian:** -111.000000
- ***Latitude of projection origin:** 0.000000
- ***False easting:** 500000.000000
- ***False northing:** 0.000000

Planar coordinate information:

- ***Planar coordinate encoding method:** coordinate pair

Coordinate representation:

- ***Abscissa resolution:** 0.000128
- ***Ordinate resolution:** 0.000128
- ***Planar distance units:** meters

Geodetic model:

- ***Horizontal datum name:** North American Datum of 1983
- ***Ellipsoid name:** Geodetic Reference System 80
- ***Semi-major axis:** 6378137.000000
- ***Denominator of flattening ratio:** 298.257222

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Entity and Attribute Information:

Detailed description:

- ***Name:** NC_Exploration_Areas

Entity type:

***Entity type label:** NC_Exploration_Areas

***Entity type type:** Feature Class

***Entity type count:** 156

Entity type definition:

North Central AUM Region exploration drilling areas

Attribute:

***Attribute label:** FID

***Attribute alias:** FID

Attribute definition:

Internal feature number.

***Attribute definition source:**

ESRI

***Attribute type:** OID

***Attribute width:** 4

***Attribute precision:** 0

***Attribute scale:** 0

Attribute domain values:

***Unrepresentable domain:**

Sequential unique whole numbers that are automatically generated.

Attribute:

***Attribute label:** Shape

***Attribute alias:** Shape

Attribute definition:

Feature geometry.

***Attribute definition source:**

ESRI

***Attribute type:** Geometry

***Attribute width:** 0

***Attribute precision:** 0

***Attribute scale:** 0

Attribute domain values:

***Unrepresentable domain:**

Coordinates defining the features.

Attribute:

***Attribute label:** Source

***Attribute alias:** Source

***Attribute type:** String

***Attribute width:** 50

Attribute:

***Attribute label:** Comment

***Attribute alias:** Comment

***Attribute type:** String

***Attribute width:** 200

Overview description:**Dataset overview:**

There are 156 polygons.

Entity and attribute overview:

There are two thematic attributes:

Source - where S04290701 is Malan, 1964; S04290701, DOQQ is Malan updated by photointerpretation of USGS 1990's vintage B&W DOQQs; and DOQQ are areas mapped solely by photointerpretation of USGS 1990's vintage B&W DOQQs.

Comment - automation comments

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Distribution Information:**Distributor:****Contact information:****Contact organization primary:**

Contact organization: U. S. Environmental Protection Agency, Region 9,
Superfund Records Center

Contact address:

Address type: mailing address

Address:

95 Hawthorne St (SFD-7C)

City: San Francisco

State or province: CA

Postal code: 94105

Country: USA

Contact voice telephone: 415-536-2033

Distribution liability:

Although these data have been processed successfully on a computer system for the USEPA, no warranty expressed or implied is made by the USEPA or its contractors regarding the utility of the data on any other system, nor shall the act of distribution constitute any such warranty. No responsibility is assumed by USEPA or its contractors in the use of these data.

Standard order process:**Digital form:****Digital transfer information:**

***Transfer size:** 0.043

***Dataset size:** 0.043

Custom order process:

Contact the USEPA for a custom order.

Technical prerequisites:

Use of this data generally requires computer workstations with ESRI's Arc/Info (8.x or above), ArcGIS (8.x or above), or ArcView (3.x), or some other GIS or CAD software that is capable of reading or converting this dataset.

Available time period:

Time period information:
Single date/time:

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Metadata Reference Information:

***Metadata date:** 20070720

***Language of metadata:** en

Metadata contact:

Contact information:

Contact person primary:

Contact person: Andrew Bain

Contact organization: U. S. Environmental Protection Agency, Region 9,
Superfund Program

Contact position: Project Manager

Contact address:

Address type: mailing and physical address

Address:

75 Hawthorne St (SFD 8-2)

City: San Francisco

State or province: CA

Postal code: 94105

Country: USA

Contact voice telephone: 415-972-3167

***Metadata standard name:** FGDC Content Standards for Digital Geospatial Metadata

***Metadata standard version:** FGDC-STD-001-1998

***Metadata time convention:** local time

Metadata access constraints: None.

Metadata use constraints:

None.

Metadata security information:

Metadata security classification system: None

Metadata extensions:

***Online linkage:** <http://www.esri.com/metadata/esriprof80.html>

***Profile name:** ESRI Metadata Profile

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Binary Enclosures:

Thumbnail:

Enclosure type: Picture



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