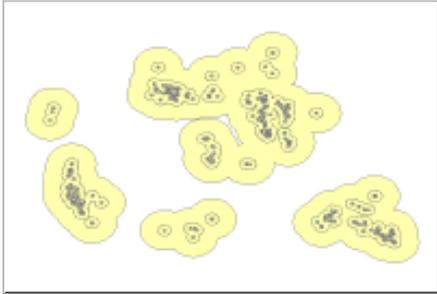


Navajo Nation Aggregated Buffers Around Surficial Abandoned Uranium Mines



Data format: Shapefile

File or table name: NN_AUM_Buffer_Surf

Coordinate system: Geographic

Theme keywords: HRS-derived Scoring Buffers, Aggregated Buffers, Abandoned Uranium Mines

Abstract: A multipart polygon shapefile of aggregated 200 foot, 1/4 mile, 1 mile, 4 mile and 15 mile buffers around the surficial extent of Abandoned Uranium Mines (AUM) of the six AUM Regions. These buffers were developed from the shapefile for AUMs named NN_AUM_Poly_Surf.shp. The 200ft to 1mile buffers are associated with the air and soil pathway analysis. The 15 mile buffer is associated with the surface water pathway analysis. The 4 mile buffer is provided for reference. This dataset covers the six Abandoned Uranium (AUM) Regions of the Navajo Nation.

FGDC and ESRI Metadata:

- [Identification Information](#)
- [Data Quality Information](#)
- [Spatial Data Organization Information](#)
- [Spatial Reference Information](#)
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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: TerraSpectra Geomatics

Title:

Navajo Nation Aggregated Buffers Around Surficial Abandoned Uranium Mines

***File or table name:** NN_AUM_Buffer_Surf

Publication date: July 2007

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

Publication information:**Publication place:** San Francisco, CA**Publisher:** U. S. Environmental Protection Agency, Region 9, Superfund Program***Online linkage:**\\Terra_dc\Navajo\NAUM_NN_Summary\DB\AUM\NN_AUM_Buffer_Surf.shp**Description:****Abstract:**

A multipart polygon shapefile of aggregated 200 foot, 1/4 mile, 1 mile, 4 mile and 15 mile buffers around the surficial extent of Abandoned Uranium Mines (AUM) of the six AUM Regions. These buffers were developed from the shapefile for AUMs named NN_AUM_Poly_Surf.shp. The 200ft to 1mile buffers are associated with the air and soil pathway analysis. The 15 mile buffer is associated with the surface water pathway analysis. The 4 mile buffer is provided for reference. This dataset covers the six Abandoned Uranium (AUM) Regions of the Navajo Nation.

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. This buffer dataset was developed to support the assessment of AUMs.

Language of dataset:** en**Time period of content:*Time period information:****Single date/time:****Calendar date:** July 2007**Currentness reference:**

publication date

Status:**Progress:** Complete**Maintenance and update frequency:** None planned**Spatial domain:****Bounding coordinates:*****West bounding coordinate:** -111.910263***East bounding coordinate:** -107.571823***North bounding coordinate:** 37.629632***South bounding coordinate:** 35.098788**Local bounding coordinates:*****Left bounding coordinate:** -111.910263***Right bounding coordinate:** -107.571823***Top bounding coordinate:** 37.629632***Bottom bounding coordinate:** 35.098788**Keywords:****Theme:****Theme keywords:** HRS-derived Scoring Buffers, Aggregated Buffers, Abandoned Uranium Mines**Theme keyword thesaurus:** None

Place:

Place keywords: Six AUM Regions, Navajo Nation, Arizona, New Mexico, Utah, United States

Place keyword thesaurus: None

Access constraints: None

Use constraints:

This dataset buffers abandoned uranium mines identified on or within one mile of the Navajo Nation for the six AUM Regions.

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:**

Buffer_Ft was assigned by the ArcMap 9.1 software. Buffer is a text version.

Completeness report:

This dataset buffers abandoned uranium mines identified on or within one mile of the Navajo Nation for the six AUM Regions.

Positional accuracy:

Horizontal positional accuracy:

Horizontal positional accuracy report:

The horizontal accuracy is derived from the accuracy of the buffered dataset, NN_AUM_Poly_Surf.shp. It's horizontal accuracy statement is:

NAMLRP sourced AUMs were prepared from sets of 7.5 minute USGS topographic maps (accurate to ~67 feet) for the Navajo Nation with project areas located and identified.

Some AUMs were adjusted positionally or by shape based on DOQQ apparent surface disturbance, DRG mapped mines, and mine maps from literature. The PolySkey field records the source (Skeys) for these sources used to change AUM polygons, The horizontal accuracy for these changes would be taken from the reference source's horizontal accuracy report in its metadata.

Lineage:

Process step:

Process description:

NN_AUM_Poly_Surf.shp was buffered in aggregation by 200 feet, 1/4 mile, 1 mile, 4 miles, and 15 miles on the outside of all AUM polygons, using the ArcMap buffer wizard. This aggregated buffer shapefile cannot be related back to individual AUMs.

Process software and version: ESRI ArcGIS 9.1

Process date: July 2007

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

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Spatial Data Organization Information:

***Direct spatial reference method:** Vector

Point and vector object information:

SDTS terms description:

***Name:** NN_AUM_Buffer_Surf

***SDTS point and vector object type:** G-polygon

***Point and vector object count:** 5

ESRI terms description:

***Name:** NN_AUM_Buffer_Surf
***ESRI feature type:** Simple
***ESRI feature geometry:** Polygon
***ESRI topology:** FALSE
***ESRI feature count:** 5
***Spatial index:** TRUE
***Linear referencing:** FALSE

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Spatial Reference Information:

Horizontal coordinate system definition:

Coordinate system name:

***Geographic coordinate system name:** GCS_North_American_1983

Geographic:

***Latitude resolution:** 0.000000
***Longitude resolution:** 0.000000
***Geographic coordinate units:** Decimal degrees

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:** NN_AUM_Buffer_Surf

Entity type:

***Entity type label:** NN_AUM_Buffer_Surf
***Entity type type:** Feature Class
***Entity type count:** 5

Entity type definition:

Aggregated Buffers for NN_AUM_Polys_Surf.shp

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: Number
- *Attribute width: 19
- *Attribute number of decimals: 11

Attribute domain values:***Unrepresentable domain:**

Coordinates defining the features.

Attribute:

- *Attribute label: Buffer_Ft
- *Attribute alias: Buffer_Ft

- *Attribute type: Number
- *Attribute width: 19
- *Attribute number of decimals: 11

Attribute:

- *Attribute label: Buffers
- *Attribute alias: Buffers

- *Attribute type: String
- *Attribute width: 15

Overview description:**Dataset overview:**

There are 5 multipart polygons; one for each buffer distance.

Entity and attribute overview:

There are two thematic attributes:

Buffer_Ft - the buffer distance in feet
Buffers - a text description of the buffer distance

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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

Resource description: Navajo Nation AUM Region Aggregated Buffers for Surface AUMs

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:** 5.556

***Dataset size:** 5.556

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>

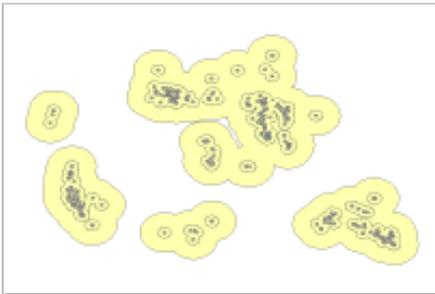
***Profile name:** ESRI Metadata Profile

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Binary Enclosures:

Thumbnail:

Enclosure type: Picture



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