Mine Entry Zone of Influence Metadata

Description

Keywords

Theme: Mine Entry, Coal Mining, Zone of Influence, Underground, Mining Report, Ground Stability

Description

Abstract

A Mine Entry with Potential Zone of Influence is the area of the ground that might be affected if subsidence of the mine entry was to occur.

Purpose

Mining and geographical data held on the National Coal Mining Database.

Supplementary Information

Each mine entry has a zone of influence buffer around the mine entry calculated from the same algorithm used in producing a 'Mine Entry Interpretive Report'. The Zone of Influence (ZOI) highlights the area on the surface that could potentially be affected in the unlikely event a collapse was to occur. The calculation takes into account the size of the mine entry entrance, the geological 'drift' deposits for the area and the original source from which the mine entry was captured.

The layer shows a mathematical area, which may be affected and does not attempt to take into account the varying local geological conditions that may affect this. Where the calculated ZOI is less than 20m then a default value of 20m is used.

The National Coal Mining Database, which is based on the records held at The Coal Authority offices in Mansfield, Nottinghamshire, is updated on a regular basis. This dataset has been extracted from this dynamic database on the date stated below and therefore represents a snapshot in time.

Status of the data

Extract of data from the National Coal Mining Database

Data update frequency: As needed

Time period for which the data is relevant

Date and time: 14/08/2014

Description: Dataset export from the National Coal Mining Database

Publication Information

Who created the data: The Coal Authority

Date and time: 26/09/2014

Data storage and access information

File name: MineEntryZOI

Type of data: vector digital data

Data processing environment: Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; ESRI ArcCatalog 10.0(Build 2800)

Mine Entry Zone of Influence Metadata

Constraints on accessing and using the data

Access and use constraints: This data, service or application is provided free of charge under the terms and conditions of the Open Government Licence.

The full terms and conditions of the Open Government Licence can be viewed at: http://www.nationalarchives.gov.uk/doc/open-government-licence/

If you need any additional advice please contact the Customer Service Team on +44 (0) 345 762 6848 or at groundstability@coal.gov.uk.

Details about this document

Contents last updated: 26/09/2014

Who completed this document

Louise Tipper, Information Management, The Coal Authority
mailing and physical address:
200 Lichfield Lane
Mansfield
Nottinghamshire
NG18 4RD
England

Phone: +44 (0) 345 762 6848

Standards used to create this document

Standard name: FGDC Content Standards for Digital Geospatial Metadata
Standard version: FGDC-STD-001-1998
Time convention used in this document: local time
Metadata profiles defining additonal information

- ESRI Metadata Profile: http://www.esri.com/metadata/esriprof80.html

Mine Entry Zone of Influence Metadata

Spatial

Horizontal coordinate system
Projected coordinate system name: British_National_Grid
Geographic coordinate system name: GCS_OSGB_1936

Details

Map Projection Name: Transverse Mercator
Scale Factor at Central Meridian: 0.999601
Longitude of Central Meridian: -2.000000
Latitude of Projection Origin: 49.000000
False Easting: 400000.000000
False Northing: -100000.000000

Planar Coordinate Information
Planar Distance Units: meters
Coordinate Encoding Method: coordinate pair

Coordinate Representation
Abscissa Resolution: 0.000000
Ordinate Resolution: 0.000000

Geodetic Model
Horizontal Datum Name: D_OSGB_1936
Ellipsoid Name: Airy_1830
Semi-major Axis: 6377563.396000
Denominator of Flattening Ratio: 299.324965

Altitude System Definition
Resolution: 0.000100
Encoding Method: Explicit elevation coordinate included with horizontal coordinates

Bounding coordinates
Horizontal
In decimal degrees
West: -5.973728
East: 1.952598
North: 58.029351
South: 50.977168
In projected or local coordinates
Left: 165007.000000
Right: 633740.000000
Top: 904433.880000
Bottom: 125147.990000

Mine Entry Zone of Influence Metadata

Spatial data description

Vector data information

ESRI description

MineEntryZOI

ESRI feature type: Simple
Geometry type: Polygon
Topology: FALSE
Feature count: 171995
Spatial Index: TRUE
Linear referencing: FALSE

SDTS description

Feature class: SDTS feature type, feature count

- MineEntryZOI: G-polygon, 171995

Attributes

Details for MineEntryZOI

Type of object: Feature Class
Number of records: 171995

Attributes

FID

Alias: FID
Data type: OID
Width: 4
Precision: 0
Scale: 0
Definition: Internal feature number.
Definition Source: ESRI

Shape

Alias: Shape
Data type: Geometry
Width: 0
Precision: 0
Scale: 0
Definition: Feature geometry.
Definition Source: ESRI

OBJECTID

Alias: OBJECTID
Data type: Number
Width: 9

Mine Entry Zone of Influence Metadata

FEATURE_TYPE

Alias: FEATURE_TYPE
Data type: String
Definition:
The coal mining feature type
Width: 50

HYPERLINK

Alias: HYPERLINK
Data type: String
Definition:
Web URL for further data information
Width: 50

SHAPE_Length

Alias: SHAPE_Length
Data type: Float
Width: 19
Number of decimals: 11

SHAPE_Area

Alias: SHAPE_Area
Data type: Float
Width: 19
Number of decimals: 11
Definition:
Area of feature in internal units squared.
Definition Source:
ESRI