Geochemical characterization of the Dublin Boulder Clay Dublin Ireland (ROI) ITM

Type File Geodatabase Feature Class

Tags Ireland, Geology, IE/GSI, Tellus, Geochemistry, Dublin Boulder Clay, Soil, Till

Summary

The Dublin Bounder Clay is glacial till found in the Greater Dublin area. The amount of chemicals and metals in this till has been characterized, using private sector data from site studies around Dublin.
This project gives us more detail on the natural geochemical signal of the Dublin Boulder Clay. We then can compare the results to rocks and soils in the area. This helps with the control of soil waste in Ireland. It also helps meet circular economy aims of the Climate Action Plan.

Description

Soil samples were collected by the private sector as part of site investigations and tested for the chemicals that make up the soil. The samples were taken from boreholes (drilling) or trial pits (excavations). The samples were described and sent to a lab to be tested for chemicals and the results were given as mg/kg (milligram per kilogram), % (percent) or pH units in the case of pH.

It is a vector dataset. Vector data portray the world using points, lines, and polygons (areas). This soil geochemistry data is shown as points. Each point gives information about where the sample was collected, the type of sample, the type and value of the chemicals that were tested. This includes:

GSI_Sample_ID= Sample Number

Source_type = the way the sample was taken from the ground

Easting_ITM = location coordinate Easting (Irish Transverse Mercator coordinate system)

Northing_ITM = location coordinate Northing (Irish Transverse Mercator coordinate system)

Depth_start_m = Start depth the sample was taken in metres below ground level

Depth_end_m = End depth the sample was taken in metres below ground level

pH = how acidic or basic the sample is

TOC_pct = Total Organic Carbon (%)

LOI_pct = Loss-on-Ignition (%)

OM_pct = Organic matter (%)

As_mgkg = Arsenic (As) (mg/kg)

B_mgkg = Boron (B) (mg/kg)

Ba_mgkg = Barium (Ba) (mg/kg)

Be_mgkg = Beryllium (Be) (mg/kg)

Cd_mgkg = Cadmium (Cd) (mg/kg)

Cr_mgkg = Chromium (Cr) (mg/kg)

Cr_mgkg_Hexavalent = Hexavalent chromium (mg/kg)

Cu_mgkg = Copper (Cu) (mg/kg)

Hg_mgkg = Mercury (Hg) (mg/kg)

Mo_mgkg = Molybdenum (Mo) (mg/kg)

Ni_mgkg = Nickel (Ni) (mg/kg)

Pb_mgkg = Lead (Pb) (mg/kg)

Sb_mgkg = Antimony (Sb) (mg/kg)

Se_mgkg = Selenium (Se) (mg/kg)

V_mgkg = Vanadium (V) (mg/kg)

Zn_mgkg = Zinc (Zn) (mg/kg)

Analytical_method = How the samples were analyzed

Digestion_method = How the samples were prepared before analysis

Units = units of the test results

Classification = The type of soil the samples came from

Description = Geological description of the sample for example colour, texture, parent material, particle size, any contamination

Comments = Extra information regarding the sample.

Credits

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Extent

West -6.507591 East -6.164102
North 53.422863 South 53.277322

Scale Range

Maximum (zoomed in) 1:5,000
Minimum (zoomed out) 1:150,000,000

Topics and Keywords ►

Themes or categories of the resource Environment, Geoscientific, Location
Content type ⇔ Downloadable Data
Export to FGDC CSDGM XML format as Resource Description No

Theme keywords Soil

Thesaurus ►

Title GEMET - INSPIRE themes, version 1.0
Alternate titles GEMET INSPIRE
Publication date 2008-06-01 00:00:00
Resource location online
Online location (URL) https://inspire.ec.europa.eu/theme/so
Connection protocol text/html
Name INSPIRE theme register
Function performed information
Application profile INSPIRE theme register

Place keywords Ireland

Thesaurus ►

Title Metadata Registry of the Publications Office of the EU Named Authority Lists - Country
Alternate titles MDR-COUNTRIES
Publication date 2015-03-18 00:00:00
Edition 20200624-0
Resource location online
Online location (URL) https://op.europa.eu/en/web/eu-vocabularies/concept/-/resource?uri=http://publications.europa.eu/resource/authority/country/IRL
Connection protocol text/html
Name Name authority list
Description Name authority list
Function performed information

Other keywords IE/GSI

Thesaurus ►

Title Global Change Master Directory (GCMD) Data Center Keywords 9.1.5
Alternate titles GCMD Data Center Keywords
Publication date 2016-08-04 00:00:00
Edition 9.1.5
Resource location online
Online location (URL) https://vocabs.ardc.edu.au/repository/api/lda/ardc-curated/gcmd-providers/9-1-5-2020-02-06/resource?uri=https://gcmdservices.gsfc.nasa.gov/kms/concept/4bdbb012-4aed-485b-8ee8-16519985681e
Connection protocol text/html

Name GCMD Data Center Keywords
Description GCMD Data Center Keywords
Function performed information

Citation ►

Title Geochemical characterization of the Dublin Boulder Clay Dublin Ireland (ROI) ITM
Creation date 2022-06-03 00:00:00
Publication date 2022-06-03 00:00:00
Revision date 2022-06-03 00:00:00
Presentation formats ⇔ digital map
FGDC geospatial presentation format vector digital data
Resource identifier
Value
SO_ChemicalParameter_IE_GeologicalSurveyIreland_Geochemical_characterization_DBC_Dublin_IE26_ITM
Reference that defines the value ►

Title GSI
Creation date 2022-06-03 00:00:00
Publication date 2022-06-03 00:00:00
Revision date 2022-06-03 00:00:00

Citation Contacts ►

Responsible party - point of contact
Individual's name Tellus Project
Organization's name Geological Survey Ireland
Contact's position Tellus Project Manager
Contact information ►

Phone
Voice +353-1-6782896
Address
Type both
Delivery point Block 1, Booterstown Hall, Booterstown Avenue, Booterstown, Blackrock
City Dublin
Postal code A94 N2R6
Country IE
e-mail address support@geodata.gov.ie
Online resource
Online location (URL) https://www.gsi.ie
Connection protocol text/html
Name GSI Website
Description GSI Website
Function performed information

Resource Details ►

Dataset languages ⇔ English (IRELAND)
Dataset character set utf8 - 8 bit UCS Transfer Format
Status on-going
Spatial representation type vector
Spatial resolution
Dataset's scale
Scale denominator 50000

Ground sample distance
Precision of spatial data 500 m (meter)
Processing environment Esri ArcGIS 12.6.0.24783
Credits
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ArcGIS item properties
Name ⇔ Tellus_DBC_Geochemistry_Dublin_ITM

Extents ►

Extent
Geographic extent
Bounding rectangle
Extent type Extent used for searching
West longitude ⇔ -6.507591
East longitude ⇔ -6.164102
North latitude ⇔ 53.422863
South latitude ⇔ 53.277322
Extent contains the resource ⇔ Yes

Temporal extent
Beginning date 2021-01-25 00:00:00
Ending date 2022-05-31 00:00:00

Extent in the item's coordinate system
westBL ⇔ 699521.000000
eastBL ⇔ 722035.000000
southBL ⇔ 726784.000000
northBL ⇔ 742461.000000
exTypeCode ⇔ Yes

Resource Points of Contact ►

Point of contact - point of contact
Individual's name Tellus Project Manager
Organization's name Geological Survey Ireland
Contact's position Tellus Project Manager
Contact information ►

Phone
Voice +353-1-6782896
Address
Type both
Delivery point Block 1, Booterstown Hall, Booterstown Avenue, Booterstown, Blackrock
City Dublin
Postal code A94 N2R6
Country IE
e-mail address support@geodata.gov.ie
Online resource
Online location (URL) https://www.gsi.ie
Connection protocol text/html
Name GSI Website
Description GSI Website

Function performed information

Resource Maintenance ►

Resource maintenance
Update frequency irregular

Resource Constraints ►

Legal constraints
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Use constraints license
Security constraints
Classification unclassified
Additional restrictions
no limitations to public access

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Spatial Reference ►

ArcGIS coordinate system
Type ⇔ Projected
Geographic coordinate reference ⇔ GCS_IRENET95
Projection ⇔ IRENET95_Irish_Transverse_Mercator
Coordinate reference details ⇔

ProjectedCoordinateSystem
WKID 2157
XOrigin -5022200
YOrigin -15179500
XYScale 10000
ZOrigin -100000
ZScale 10000
MOrigin -100000
MScale 10000
XYTolerance 0.001
ZTolerance 0.001
MTolerance 0.001
HighPrecision true
LatestWKID 2157
WKT PROJCS["IRENET95_Irish_Transverse_Mercator",GEOGCS["GCS_IRENET95",DATUM ["D_IRENET95",SPHEROID["GRS_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT ["Degree",0.0174532925199433]],PROJECTION["Transverse_Mercator"],PARAMETER ["False_Easting",600000.0],PARAMETER["False_Northing",750000.0],PARAMETER["Central_Meridian",-8.0],PARAMETER["Scale_Factor",0.99982],PARAMETER["Latitude_Of_Origin",53.5],UNIT ["Meter",1.0],AUTHORITY["EPSG",2157]]

Reference system identifier
Value 2157
Version ⇔ 6.5.1(8.1.2)
Codespace ⇔ EPSG
Reference that defines the value ►

Title European Petroleum Survey Group (EPSG) Geodetic Parameter Dataset
Alternate titles EPSG
Publication date 2004-04-07 00:00:00
Edition 9.8.12
Resource location online
Online location (URL) http://www.opengis.net/def/crs/EPSG/0/2157
Connection protocol text/html
Name EPSG
Description EPSG
Function performed information

Spatial Data Properties ►

Vector ►

Level of topology for this dataset ⇔ geometry only
Geometric objects
Feature class name Tellus_DBC_Geochemistry_Dublin_ITM
Object type ⇔ point
Object count ⇔ 479
ArcGIS Feature Class Properties ►

Feature class name Tellus_DBC_Geochemistry_Dublin_ITM
Feature type ⇔ Simple
Geometry type ⇔ Point
Has topology ⇔ FALSE
Feature count ⇔ 479

Spatial index ⇔ TRUE
Linear referencing ⇔ FALSE

Data Quality ►

Scope of quality information ►

Resource level dataset

Data quality report - Domain consistency ►

Conformance test results
Test passed No
Result explanation
The INSPIRE Directive or INSPIRE lays down a general framework for a Spatial Data Infrastructure (SDI) for the purposes of European Community environmental policies and policies or activities which may have an impact on the environment.

Product specification ►

Title D2.8.III.3 Data Specification on Soil – Technical Guidelines
Alternate titles INSPIRE Data Specifications v3.0
Publication date 2013-12-10 00:00:00

Data quality report - Domain consistency ►

Conformance test results
Test passed Yes
Result explanation
See the reference specification

Product specification ►

Title COMMISSION REGULATION (EC) No 1205/2008 of 3 December 2008 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards metadata
Publication date 2008-12-04 00:00:00

Data quality report - Domain consistency ►

Conformance test results
Test passed No
Result explanation
See the reference specification

Product specification ►

Title Regulation 1089/2010 COMMISSION REGULATION (EU) No 1089/2010 of 23 November 2010 implementing Directive 2007/2/EC of the European Parliament and of the Council as regards interoperability of spatial data sets and services
Publication date 2010-12-08 00:00:00

Lineage ►

Lineage statement
Data Quality\Lineage:

Data compilation:
Geochemical data from tests on the Dublin Boulder Clay were compiled from third parties, by:

• Asking private sector environmental consultancy and site investigation companies for data
• Consulting publicly available Environmental Impact Assessment Reports on major infrastructure/building projects;
• Reference to the National Geotechnical Database.

A total of 479 useable observations were compiled into a database. The quality was checked, and basic statistics were carried out to summarise the main characteristics of the data in MS Excel. Some chemical elements, namely mercury, selenium and antimony had data quality that was too poor to allow further analysis to be carried out.

Mapping and data analysis:

More data analysis was carried out using ioGAS software, to compare the DBC database to other soil databases and geological information. The data were mapped in ArcGIS software as point maps coloured according to the geochemical result.

Final Dataset: Tellus_DBC_Geochemistry_Dublin_ITM.xlsx
Data Points: 479
Projection: IRENET95 / Irish Transverse Mercator (ITM); EPSG:2157

Distribution ►

Distributor ►

Contact information - publisher
Individual's name Information Management
Organization's name Geological Survey Ireland
Contact's position Head of Information Management
Contact information ►

Phone
Voice +353-1-6782896
Address
Type both
Delivery point Block 1, Booterstown Hall, Booterstown Avenue, Booterstown, Blackrock
City Dublin
Postal code A94 N2R6
Country IE
e-mail address support@geodata.gov.ie
Online resource
Online location (URL) https://www.gsi.ie
Connection protocol text/html
Name GSI Website
Description GSI Website
Function performed information

Distribution format
Version 10.7
Name ⇔ File Geodatabase Feature Class
Transfer options
Online source
Online location (URL) https://dcenr.maps.arcgis.com/apps/webappviewer/index.html?id=b8576fe6efca43058953573dbbd71f25
Connection protocol text/html
Name Webmapping Viewer
Description Webmapping Viewer
Function performed information

Online source
Online location (URL) https://www.gsi.ie/en-ie/data-and-maps/Pages/Geochemistry.aspx
Connection protocol application/vnd.shp
Name Data Download
Description Data Download
Function performed download

Online source
Online location (URL) https://gsi.geodata.gov.ie/server/rest/services/Geochemistry
Connection protocol text/html
Name REST Service
Description REST Service
Function performed information

Fields ►

Details for object Tellus_DBC_Geochemistry_Dublin_ITM ►

Type ⇔ Feature Class
Row count ⇔ 479
Definition
Geochemical characterization of the Dublin Boulder Clay samples

Definition source
DBC Project

Field OBJECTID ►

Alias ⇔ OBJECTID
Data type ⇔ OID
Width ⇔ 4
Precision ⇔ 0
Scale ⇔ 0
Field description ⇔
Internal feature number.

Description source ⇔
Esri

Description of values ⇔
Sequential unique whole numbers that are automatically generated.

Field Shape ►

Alias ⇔ Shape
Data type ⇔ Geometry
Width ⇔ 0
Precision ⇔ 0
Scale ⇔ 0
Field description ⇔
Feature geometry.

Description source ⇔
Esri

Description of values ⇔
Coordinates defining the features.

Field GSI_Sample_ID ►

Alias GSI Sample ID
Data type ⇔ String
Width ⇔ 255
Precision ⇔ 0
Scale ⇔ 0
Field description
Sample Number

Description source
DBC Project

Field Source_type ►

Alias Source type
Data type ⇔ String
Width ⇔ 255
Precision ⇔ 0
Scale ⇔ 0
Field description
The way the sample was taken from the ground

Description source
DBC Project

Field Comments ►

Alias ⇔ Comments
Data type ⇔ String
Width ⇔ 255
Precision ⇔ 0
Scale ⇔ 0
Field description
Extra information regarding the sample.

Description source
DBC Project

Field Easting_ITM ►

Alias Easting (ITM)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
Easting (Irish Transverse Mercator)

Description source
DBC Project

Field Depth_start_m ►

Alias Depth start (m)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
Start depth the sample was taken in metres below ground level

Description source
DBC Project

Field Depth_end_m ►

Alias Depth end (m)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
End depth the sample was taken in metres below ground level

Description source
DBC Project

Field pH ►

Alias ⇔ pH
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
How acidic or basic the sample is

Description source
DBC Project

Field TOC_pct ►

Alias Total organic carbon (%)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
Total Organic Carbon (%)

Description source
DBC Project

Field LOI_pct ►

Alias Loss on ignition (%)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
Loss on ignition (%)

Description source
DBC Project

Field OM_pct ►

Alias Organic Matter (%)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
Organic Matter (%)

Description source
DBC Project

Field As_mgkg ►

Alias As (mg/kg)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
As (mg/kg)

Description source
DBC Project

Field B_mgkg_Water_Soluble ►

Alias B (mg/kg) (Water Soluble)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
B (mg/kg) (Water Soluble)

Description source
DBC Project

Field Ba_mgkg ►

Alias Barium (Ba) (mg/kg)
Data type ⇔ Double
Width ⇔ 8

Precision ⇔ 0
Scale ⇔ 0
Field description
Barium (Ba) (mg/kg)

Description source
DBC Project

Field Be_mgkg ►

Alias Beryllium (Be) (mg/kg)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
Beryllium (Be) (mg/kg)

Description source
DBC Project

Field Cd_mgkg ►

Alias Cadmium (Cd) (mg/kg)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
Cadmium (Cd) (mg/kg)

Description source
DBC Project

Field Cr_mgkg ►

Alias Chromium (Cr) (mg/kg)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
Chromium (Cr) (mg/kg)

Description source
DBC Project

Field Cr_mgkg_Hexavalent ►

Alias Hexavalent chromium (mg/kg)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description

Hexavalent chromium (mg/kg)

Description source
DBC Project

Field Cu_mgkg ►

Alias Copper (Cu) (mg/kg)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
Copper (Cu) (mg/kg)

Description source
DBC Project

Field Hg_mgkg ►

Alias Mercury (Hg) (mg/kg)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
Mercury (Hg) (mg/kg)

Description source
DBC Project

Field Mo_mgkg ►

Alias Molybdenum (Mo) (mg/kg)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
Molybdenum (Mo) (mg/kg)

Description source
DBC Project

Field Ni_mgkg ►

Alias Nickel (Ni) (mg/kg)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
Nickel (Ni) (mg/kg)

Description source

DBC Project

Field Pb_mgkg ►

Alias Lead (Pb) (mg/kg)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
Lead (Pb) (mg/kg)

Description source
DBC Project

Field Sb_mgkg ►

Alias Antimony (Sb) (mg/kg)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
Antimony (Sb) (mg/kg)

Description source
DBC Project

Field Se_mgkg ►

Alias Selenium (Se) (mg/kg)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
Selenium (Se) (mg/kg)

Description source
DBC Project

Field V_mgkg ►

Alias Vanadium (V) (mg/kg)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
Vanadium (V) (mg/kg)

Description source
DBC Project

Field Zn_mgkg ►

Alias Zinc (Zn) (mg/kg)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
Zinc (Zn) (mg/kg)

Description source
DBC Project

Field Analytical_method ►

Alias Analytical method
Data type ⇔ String
Width ⇔ 255
Precision ⇔ 0
Scale ⇔ 0
Field description
How the samples were analyzed

Description source
DBC Project

Field Digestion_method ►

Alias Digestion method
Data type ⇔ String
Width ⇔ 255
Precision ⇔ 0
Scale ⇔ 0
Field description
How the samples were prepared before analysis

Description source
DBC Project

Field Units ►

Alias ⇔ Units
Data type ⇔ String
Width ⇔ 255
Precision ⇔ 0
Scale ⇔ 0
Field description
Units of the test results

Description source
DBC Project

Field Classification ►

Alias ⇔ Classification
Data type ⇔ String
Width ⇔ 255

Precision ⇔ 0
Scale ⇔ 0
Field description
The type of soil the samples came from

Description source
DBC Project

Field Description ►

Alias ⇔ Description
Data type ⇔ String
Width ⇔ 32767
Precision ⇔ 0
Scale ⇔ 0
Field description
Geological description of the sample for example colour, texture, parent material, particle size, any contamination

Description source
DBC Project

Field Northing_ITM ►

Alias Northing (ITM)
Data type ⇔ Double
Width ⇔ 8
Precision ⇔ 0
Scale ⇔ 0
Field description
Northing (Irish Transverse Mercator)

Description source
DBC Project

Metadata Details ►

Metadata language ⇔ English (IRELAND)
Metadata character set utf8 - 8 bit UCS Transfer Format
Metadata identifier
MD_SO_ChemicalParameter_IE_GeologicalSurveyIreland_Geochemical_characterization_DBC_Dublin_IE26_ITM
Scope of the data described by the metadata ⇔ dataset
Scope name ⇔ dataset
Last update ⇔ 2022-06-03
ArcGIS metadata properties
Metadata format ArcGIS 1.0
Created in ArcGIS for the item 2022-06-03 12:43:22
Last modified in ArcGIS for the item 2022-06-03 14:21:43
Automatic updates
Have been performed Yes
Last update 2022-06-03 12:52:52

Metadata Contacts ►

Metadata contact - point of contact

Individual's name Information Management
Organization's name Geological Survey Ireland
Contact's position Head of Information Management
Contact information ►

Phone
Voice +353-1-6782896
Address
Type both
Delivery point Block 1, Booterstown Hall, Booterstown Avenue, Booterstown, Blackrock
City Dublin
Postal code A94 N2R6
Country IE
e-mail address support@geodata.gov.ie
Online resource
Online location (URL) https://www.gsi.ie
Connection protocol text/html
Name GSI Website
Description GSI Website
Function performed information

Metadata Maintenance ►

Maintenance
Update frequency as needed

Metadata Constraints ►

Legal constraints
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Thumbnail and Enclosures ►

Thumbnail

Thumbnail type Image file