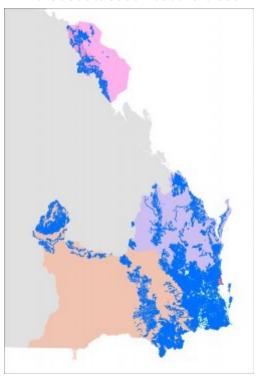
## GDE\_Surface\_Lines\_v01\_2

File Geodatabase Feature Class



Tags

WATER Springs, WATER, Wide Bay Burnett (WBB), inlandWaters, Eastern Murray-Darling Basin (MDB), WATER Wetlands Mapping, South East Queensland (SEQ), inlandWaters, WATER Wetlands, WATER Mapping, WATER Groundwater, environment, WATER Groundwater Mapping, Mackay-Whitsunday (MW), environment, ECOLOGY Ecosystem, Pumicestone Passage Catchment (PUM)

### Summary

Surface expression groundwater dependent ecosystems (GDE) lines Description

Surface expression GDEs are ecosystems that are dependent on the discharge of groundwater on a permanent or intermittent basis to meet all or some of their water requirements so as to maintain their communities of plants and animals, ecological processes and ecosystem services. Surface expression GDE line features include drainage lines that have some surface groundwater dependency. Information about the location and extent of known and potential GDEs was sourced from expert knowledge, literature and existing datasets. This dataset is one of five datasets that describe the distribution of known and potential GDEs across the landscape. The complete set of GDE datasets is: 1. Surface expression GDE points, 2. Surface expression GDE lines, 3. Surface expression GDE areas, 4. Terrestrial GDE areas, 5. Subterranean GDE areas. As the different types of GDEs represent different overlapping layers or cross-sections of the landscape, it is recommended that the datasets be mapped in the order of listing shown above (i.e. surface expression GDE points on top) to maintain logical consistency and assist visualization.

### Credits

There are no credits for this item.

### Use limitations

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### Extent

```
West 147.266665 East 153.549945
North -20.043645 South -29.174527
Scale Range

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

### ArcGIS Metadata ▶

### Topics and Keywords ▶

THEMES OR CATEGORIES OF THE RESOURCE environment, inlandWaters

```
* CONTENT TYPE Downloadable Data

PLACE KEYWORDS Mackay-Whitsunday (MW)

PLACE KEYWORDS Eastern Murray-Darling Basin (MDB)

PLACE KEYWORDS South East Queensland (SEQ)

PLACE KEYWORDS Pumicestone Passage Catchment (PUM)

PLACE KEYWORDS Wide Bay Burnett (WBB)

THEME KEYWORDS inlandWaters, environment
```



THEME KEYWORDS WATER Springs, WATER, WATER Wetlands Mapping, WATER Wetlands, WATER Mapping, WATER Groundwater, WATER Groundwater Mapping, ECOLOGY Ecosystem



THEME KEYWORDS inlandWaters, environment



Hide Topics and Keywords ▲

### Citation ▶

\* TITLE GDE\_Surface\_Lines\_v01\_2 PUBLICATION DATE 2014-11-11

EDITION Version 1.2

PRESENTATION FORMATS digital map
FGDC GEOSPATIAL PRESENTATION FORMAT vector digital data

### OTHER CITATION DETAILS

Access AVAILABLE FORMAT TYPE(S) 1. Online Digital Data and Map Products http://wetlandinfo.ehp.qld.gov.au/wetlands/facts-maps/gde-background/ 2. Digital data available as a ESRI Shapefile, ESRI Geodatabase and ESRI Geodatabase Export download

Hide Citation ▲

### Citation Contacts ▶

RESPONSIBLE PARTY

ORGANIZATION'S NAME Queensland Herbarium, Department of Science, Information Technology, Innovation and the Arts
CONTACT'S ROLE originator

Hide Citation Contacts ▲

### Resource Details ▶

DATASET LANGUAGES English (AUSTRALIA)

STATUS under development
SPATIAL REPRESENTATION TYPE Vector

\* Processing environment Microsoft Windows 7 Version 6.1 (Build 7601) Service Pack 1; Esri ArcGIS 10.2.1.3510

### ARCGIS ITEM PROPERTIES

- \* NAME GDE\_Surface\_Lines\_v01\_2
- \* LOCATION file://\\minfile3\groupdir\ecosystem outcomes\Ecosystem Analysis and Support\Wetlands\SEQ Project\GDE mapping\UAT\GDE\_v01\_2.gdb
  - \* ACCESS PROTOCOL Local Area Network

Hide Resource Details ▲

### Extents >

EXTENT DESCRIPTION

Eastern Murray-Darling Basin (MDB); Wide Bay Burnett (WBB); Pumicestone Passage Catchment (PUM); Mackay-Whitsunday (MW); South East Queensland (SEQ) areas

### TEMPORAL EXTENT

DATE AND TIME 2009-08-01

### **EXTENT**

### GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

WEST LONGITUDE 147.266665
EAST LONGITUDE 153.549945
SOUTH LATITUDE -29.174527
NORTH LATITUDE -20.043645

### **EXTENT**

### GEOGRAPHIC EXTENT

BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

\* WEST LONGITUDE 147.266665

\* EAST LONGITUDE 153.549945

\* NORTH LATITUDE -20.043645

\* SOUTH LATITUDE -29.174527

\* EXTENT CONTAINS THE RESOURCE Yes

### EXTENT IN THE ITEM'S COORDINATE SYSTEM

- \* WEST LONGITUDE 147.266665
- \* EAST LONGITUDE 153.549945
- \* SOUTH LATITUDE -29.174527
- \* NORTH LATITUDE -20.043645
- \* EXTENT CONTAINS THE RESOURCE Yes

Hide Extents ▲

### Resource Points of Contact ▶

### POINT OF CONTACT

INDIVIDUAL'S NAME Queensland Herbarium, Science Delivery

ORGANIZATION'S NAME Queensland Department of Science, Information Technology,

Innovation and the Arts

CONTACT'S POSITION Queensland GDE Program Manager

CONTACT'S ROLE point of contact

### CONTACT INFORMATION >

PHONE

VOICE 61 7 3896 9326

### Address

Type both

DELIVERY POINT Brisbane Botanic Gardens, Mt Coot-tha Road

CITY TOOWONG

ADMINISTRATIVE AREA QLD

POSTAL CODE 4066

COUNTRY AU

E-MAIL ADDRESS Queensland. Herbarium@dsitia.qld.gov.au

### HOURS OF SERVICE

9 am -5 pm

Hide Contact information ▲

### Resource Maintenance >

RESOURCE MAINTENANCE UPDATE FREQUENCY irregular

Hide Resource Maintenance

### Resource Constraints >

### LEGAL CONSTRAINTS LIMITATIONS OF USE

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### OTHER CONSTRAINTS

Unrestricted to all levels of government and community. Dataset is available to all government agencies, community groups and individuals. Dataset is available through physical supply and may be made available via web delivery tools, for example, through the Queensland Department of Environment and Heritage Protection internet site.

### CONSTRAINTS LIMITATIONS OF USE

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Hide Resource Constraints ▲

### Spatial Reference ▶

### ARCGIS COORDINATE SYSTEM

- \* Type Geographic
- \* GEOGRAPHIC COORDINATE REFERENCE GCS\_GDA\_1994
- \* COORDINATE REFERENCE DETAILS GEOGRAPHIC COORDINATE SYSTEM

Well-known identifier 4283

X ORIGIN -400

YORIGIN -400

XY SCALE 999999999.9999988

Z ORIGIN -100000 **Z** SCALE 10000 M ORIGIN -100000 M SCALE 10000 XY TOLERANCE 8.9932204607556589e-009 Z TOLERANCE 0.001 M TOLERANCE 0.001 HIGH PRECISION true LEFT LONGITUDE -180 LATEST WELL-KNOWN IDENTIFIER 4283 WELL-KNOWN TEXT GEOGCS["GCS\_GDA\_1994",DATUM["D\_GDA\_1994",SPHEROID["GRS\_1980",637813"] 7.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.017453292519943 3], AUTHORITY ["EPSG", 4283]] REFERENCE SYSTEM IDENTIFIER \* VALUE 4283 \* CODESPACE EPSG

- \* VERSION 8.2.6

Hide Spatial Reference A

### Spatial Data Properties ▶

VECTOR > \* Level of topology for this dataset geometry only GEOMETRIC OBJECTS FEATURE CLASS NAME GDE\_Surface\_Lines\_v01\_2 \* OBJECT TYPE composite \* OBJECT COUNT 297483 Hide Vector ▲ ARCGIS FEATURE CLASS PROPERTIES > FEATURE CLASS NAME GDE\_Surface\_Lines\_v01\_2 \* FEATURE TYPE Simple \* GEOMETRY TYPE Polyline \* HAS TOPOLOGY FALSE \* FEATURE COUNT 297483 \* SPATIAL INDEX TRUE \* LINEAR REFERENCING FALSE Hide ArcGIS Feature Class Properties ▲ Hide Spatial Data Properties ▲

### Data Quality >

SCOPE OF QUALITY INFORMATION RESOURCE LEVEL dataset

Hide Scope of quality information ▲

# DATA QUALITY REPORT - COMPLETENESS OMISSION MEASURE DESCRIPTION

This dataset reflects the level of knowledge and information about the landscape that may be biased due to a range of reasons such as accessibility and land use: It is likely that the dataset is incomplete. Detailed field survey and verification of the groundwater location, extent and fluctuation has not been done, nor has the level of ecosystem dependency on groundwater been tested.

Hide Data quality report - Completeness omission ▲

## DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY MEASURE DESCRIPTION

The GDE attribution was sourced from local expert knowledge, literature and spatial data. The reliability of different attribute values may vary. Lines described as 'known' have been delineated according to local expert knowledge and generally have the highest level of confidence. Lines that are derived from a rule base, that make up the majority of the areas mapped, have been assigned a level of confidence according to judgment of the reliability of knowledge supporting the rule base.

Hide Data quality report - Quantitative attribute accuracy \( \big| \)

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY

DIMENSION horizontal

### MEASURE DESCRIPTION

The mapping linework is at a nominal scale of 1:100 000 or better & the accuracy associated with this is within the range +/-100 metres. For more information refer to the regional ecosystems and Queensland Wetlands Data metadata.

Hide Data quality report - Absolute external positional accuracy

Hide Data Quality ▲

## Geoprocessing history ▼

### Distribution >

# DISTRIBUTOR CONTACT INFORMATION

INDIVIDUAL'S NAME Principal Project Officer, Wetlands
ORGANIZATION'S NAME Queensland Department of Environment and Heritage Protection
Contact's Position Principal Project Officer, Wetlands

```
CONTACT'S ROLE distributor
        CONTACT INFORMATION >
         ADDRESS
          COUNTRY AU
          E-MAIL ADDRESS wetlands@ehp.qld.gov.au
          Hide Contact information ▲
      Hide Distributor ▲
   DISTRIBUTION FORMAT
     * NAME File Geodatabase Feature Class
   Hide Distribution ▲
Fields >
   DETAILS FOR OBJECT GDE_Surface_Lines_v01_2 ▶
     * Type Feature Class
     * ROW COUNT 297483
     FIELD GW_PH ▶
      * ALIAS Ph of GW Source
      * DATA TYPE String
      * WIDTH 16
      * PRECISION 0
      * SCALE 0
      FIELD DESCRIPTION
         Ph of Groundwater Source: pH < 6, 6-8 or pH > 8, fluctuating, etc. Not part of GFS
       Hide Field GW_PH ▲
     FIELD AQ_GFS ▶
      * ALIAS Source Aquifer Groundwater Flow System
      * DATA TYPE String
      * WIDTH 32
      * PRECISION 0
      * SCALE 0
      FIELD DESCRIPTION
         Source aquifer Groundwater Flow System (GFS): Shallow alluvial/ Basin/ Bedrock
         (Local, Intermediate, Regional) or Perched
       Hide Field AQ_GFS ▲
     FIELD GW_SALINTY ▶
      * ALIAS Salinity of Groundwater Source
      * DATA TYPE String
      * WIDTH 32
```

\* PRECISION 0

```
* SCALE 0
 FIELD DESCRIPTION
    Salinity of Groundwater Source: < 1500 mg/L TDS 1,500 - 3,000 3,000 - 35,000 >
    35,000 Fluctuating etc
  Hide Field GW_SALINTY ▲
FIELD AQ_POROSTY ▶
 * ALIAS Source Aquifer Porosity
 * DATA TYPE String
 * WIDTH 32
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
    Source aquifer porosity: Primary / Secondary / Tertiary
  Hide Field AQ_POROSTY ▲
FIELD AQ_NAME ▶
 * ALIAS Source Aquifer Name
 * DATA TYPE String
 * WIDTH 100
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
    Source aquifer name. Can be more than 1 source aquifer.
  Hide Field AQ_NAME ▲
FIELD GW_CON_T_D ▶
 * ALIAS Temporal Nature of GW Connectivity Detailed
 * DATA TYPE String
 * WIDTH 50
 * PRECISION 0
 * SCALE 0
  Hide Field GW_CON_T_D ▲
FIELD Shape_Length ▶
 * ALIAS Shape_Length
 * DATA TYPE Double
 * WIDTH 8
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
    Length of feature in internal units.
 DESCRIPTION SOURCE
    Esri
```

DESCRIPTION OF VALUES

Positive real 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.

Hide Field SHAPE ▲

### FIELD GAB\_WC\_RKU ▶

- \* ALIAS GAB\_WC\_RKU
- \* DATA TYPE String
- \* WIDTH 100
- \* PRECISION 0
- \* SCALE 0

Hide Field GAB\_WC\_RKU ▲

### FIELD GW\_RECHARG ▶

- \* ALIAS Dominant Recharge Process of GW Source
- \* DATA TYPE String
- \* WIDTH 32
- \* PRECISION 0
- \* SCALE 0

### FIELD DESCRIPTION

Dominant recharge process of groundwater source: Infiltration, inundation, marine throughflow etc

Hide Field GW\_RECHARG ▲

### FIELD GDE\_D\_RULE ▶

- \* ALIAS GDE Decision Rule
- \* DATA TYPE String
- \* WIDTH 32
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

FIELD GDE\_CLASS ▶

```
FIELD GDE_EVID ▶
 * ALIAS GDE Evidence
 * DATA TYPE String
 * WIDTH 50
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
    Evidence supporting GDE presence: EXPERT OPINION, STREAM GAUGE, REPORT,
    JOURNAL ARTICLE, EXTRAPOLATED FROM RULE
  Hide Field GDE_EVID ▲
FIELD RESID_TIME ▶
 * ALIAS Residence Time of GW
 * DATA TYPE String
 * WIDTH 16
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
    Residence time (subterranean only): Long / Short / Unknown / No data
  Hide Field RESID_TIME ▲
FIELD GW_CONN_TM ▶
 * ALIAS Temporal Nature of GW Connectivity
 * DATA TYPE String
 * WIDTH 50
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
    Temporal nature of GW connectivity/use: Seasonal/ permanent/ intermittent etc
  Hide Field GW_CONN_TM ▲
FIELD DOMIN_RK ▶
 * ALIAS DOMIN_RK
 * DATA TYPE String
 * WIDTH 6
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
    Dominant rock e.g. BASALT
  Hide Field DOMIN_RK ▲
```

```
* ALIAS Type of GDE
 * DATA TYPE String
 * WIDTH 75
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
    Type of GDE: surface ecosystem dependent on the surface expression of
    groundwater; surface ecosystem dependent on the sub-surface presence of
    groundwater; aquifer or cave ecosystem
  Hide Field GDE_CLASS ▲
FIELD RULE NAME >
 * ALIAS GDE Rule Set Name
 * DATA TYPE String
 * WIDTH 120
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
    GDE Rule Set Name e.g. Alluvia – eMDB, Inland sand ridges - eMDB
  Hide Field RULE_NAME ▲
FIELD AQ_GEOL ▶
```

- \* ALIAS Source Aquifer Geology
- \* DATA TYPE String
- \* WIDTH 80
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Source aguifer broad geology: Cavernous, Unconsolidated, Fractured > Different to ANAE (Porous, Unconsolid, Fractured)

Hide Field AQ\_GEOL ▲

### FIELD GW\_CONN\_SP ▶

- \* ALIAS Spatial Connectivity between GDE and GW
- \* DATA TYPE String
- $^{\star}$  WIDTH 32
- \* PRECISION 0
- \* SCALE 0

FIELD DESCRIPTION

Spatial connectivity between GDE and GW. The type or direction of connectivity e.g. connected gaining or losing

Hide Field GW\_CONN\_SP ▲

### FIELD C\_MODEL >

- \* ALIAS Conceptual Model
- \* DATA TYPE String
- \* WIDTH 160
- \* PRECISION 0

```
FIELD DESCRIPTION
    Link to associated GDE conceptual model (URL hyperlinked attribute) e.g. Alluvia
  Hide Field C_MODEL ▲
FIELD GDE_PCT ▶
 * ALIAS GDE Percent of Polygon Area
 * DATA TYPE String
 * WIDTH 16
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
    Percentage of area that is potentially a GDE: Contains GDE, 01-50_GDE, 51-
    80_GDE, 81-100_GDE
  Hide Field GDE_PCT ▲
FIELD GDE_RULE ▶
 * ALIAS GDE Rule Set
 * DATA TYPE String
 * WIDTH 32
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
    GDE rule-set (grouping of a number of decision rules) or alternative data source.
    E.g. EMDB_RS_03 KNOWN SITE DERIVED FROM OTHER STUDIES
  Hide Field GDE_RULE ▲
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.
  Hide Field OBJECTID ▲
FIELD GDE_TYPE ▶
```

\* SCALE 0

\* ALIAS Type of GDE
\* DATA TYPE String

```
* WIDTH 32
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
    Type of GDE: SURFACE EXPRESSION GDE, TERRESTRIAL GDE or SUBTERRANEAN
  Hide Field GDE_TYPE ▲
FIELD SATUR_TIME ▶
 * ALIAS Saturation Regime
 * DATA TYPE String
 * WIDTH 16
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
    Saturation regime (subterranean only): Permanent, intermittent etc
  Hide Field SATUR_TIME ▲
FIELD ROCK_U_NAM ▶
 * ALIAS ROCK_U_NAM
 * DATA TYPE String
 * WIDTH 200
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
    Rock unit name e.g. Texas beds/I
  Hide Field ROCK_U_NAM ▲
FIELD GDE_CONF ▶
 * ALIAS GDE Confidence
 * DATA TYPE String
 * WIDTH 50
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
    Confidence in the knowledge used to delineate the GDE: KNOWN GDE, DERIVED
    GDE - HIGH CONFIDENCE, DERIVED GDE - MODERATE CONFIDENCE, DERIVED
    GDE - LOW CONFIDENCE, UNKNOWN CONFIDENCE
  Hide Field GDE_CONF ▲
FIELD HYDGEOL_CZ ▶
 * ALIAS Hydrogeological Capture Zone
 * DATA TYPE String
 * WIDTH 80
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
```

Hydrogeological capture zone: Free text

```
FIELD DATA_SRC ▶
 * ALIAS Data Source
 * DATA TYPE String
 * WIDTH 50
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
    Principal source dataset used to delineate the GDE boundary: QUEENSLAND
    SPRINGS 2009 V3, 2009 WETLANDS V3, 2009 RE V7
  Hide Field DATA_SRC ▲
FIELD AQ_CONFIN ▶
 * ALIAS Source Aquifer Confinement
 * DATA TYPE String
 * WIDTH 32
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
    Source aquifer confinement: Confined or unconfined
  Hide Field AQ_CONFIN ▲
FIELD NAME
 * ALIAS NAME
 * DATA TYPE String
 * WIDTH 50
 * PRECISION 0
 * SCALE 0
  Hide Field NAME ▲
FIELD RULE_PART ▶
 * ALIAS GDE Rule Part
 * DATA TYPE String
 * WIDTH 250
 * PRECISION 0
 * SCALE 0
 FIELD DESCRIPTION
    GDE Rule Part e.g. Wetlands (excluding riverine REs) on alluvia
  Hide Field RULE_PART ▲
 Hide Details for object GDE_Surface_Lines_v01_2 ▲
```

Hide Fields ▲

### Metadata Details ▶

METADATA LANGUAGE English (AUSTRALIA)

METADATA CHARACTER SET Utf8 - 8 bit UCS Transfer Format

Scope of the data described by the metadata dataset scope name \* dataset

\* LAST UPDATE 2014-12-09

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

STANDARD OR PROFILE USED TO EDIT METADATA FGDC

METADATA STYLE FGDC CSDGM Metadata

CREATED IN ARCGIS FOR THE ITEM 2013-04-23 14:43:42 LAST MODIFIED IN ARCGIS FOR THE ITEM 2014-12-09 14:53:28

**AUTOMATIC UPDATES** 

HAVE BEEN PERFORMED Yes

LAST UPDATE 2014-12-09 14:53:28

PUBLISHED TO AN ARCIMS METADATA SERVICE Published

Hide Metadata Details ▲

### Metadata Contacts ▶

METADATA CONTACT

ORGANIZATION'S NAME Queensland Herbarium, Department of Science, Information Technology, Innovation and the Arts
CONTACT'S ROLE point of contact

Hide Metadata Contacts ▲

### Thumbnail and Enclosures ▶

THUMBNAIL

THUMBNAIL TYPE JPG

**ENCLOSURE** 

ENCLOSURE TYPE File

DESCRIPTION OF ENCLOSURE original metadata

ORIGINAL METADATA DOCUMENT, WHICH WAS TRANSLATED YES

SOURCE METADATA FORMAT fgdc