

DATASET

Title: Utilities
Custodian: GHD Pty Ltd
Jurisdiction: Australia

DESCRIPTION

Abstract:

The data supplied has been sourced from a collection of Computer Assisted Drawings (CAD) drawings detailing the services that are part of the overall infrastructure for Cocos (Keeling) Island. Information relating to these services were extracted from CAD drawings and converted to ArcView shapefiles. Although some of the files were in different grid coordinate systems, GHD has transformed the relative files to the CKIG92 grid.

The CAD drawings used for the data extraction are all as-constructed drawings. There are essentially three distinct categories of information that consists of power, wastewater and water supply. However, during the data extraction process, three additional categories were included that are made up of fuel, gas, and telecommunications services.

Purpose:

The information contained in each dataset should be used in conjunction with other GIS data from the Cocos Island GIS to enable users to make reliable decisions.

Supplementary Information:

Please take note that the information provided does not cover the entire area of the Cocos (Keeling) Islands. This is due to the availability of data as well as the proposed scope of works.

Search Words:

HUMAN ENVIRONMENT
URBAN
PLANNING
STRUCTURES
FACILITIES
SERVICES
UTILITIES
WASTEWATER
WATER
POWER
FUEL
TELECOMMUNICATIONS

Geographic Extent Names:

Cocos (Keeling) Islands

DATA CURRENCY

Beginning Date: 1994
Ending Date: 2003-03-25

Dataset Status

Progress: Complete
Maintenance and Update Frequency: As required

ACCESS

Stored Data Format:

Digital – ESRI Shapefiles: Points and Polylines

Digital – CAD generated files (DWG, DXF, DGN): Points, lines and polygons

Available Format Type:

Digital – ESRI Shapefiles: Points and Polylines

Access Constraint: The information provided has been a result of the data extraction process approved by Department of Transport and Regional Services. Hence, all legal and access restrictions will be as stated for the complete Cocos Island GIS.

DATA QUALITY

Lineage:

Source files include digital CAD drawing files in the AutoCAD format. Other sources such as hardcopy plans were also used in the production of the data layers. All data extracted is from as-constructed information. CAD files were converted to ArcView shapefiles that were then attributed with the information provided on the actual drawings. All point data were screen digitised at a scale of 1:500 or better.

Positional Accuracy:

All data has been converted to the CKIG92 grid coordinate system. Note that some positional errors do persist in the data.

Attribute Accuracy:

All attribute information was taken from annotations on the source drawings and plans. These details are believed to be true and accurate.

Logical Consistency:

The information is based on as-constructed drawings and as such the content of the data is limited to what can be detailed on a drawing. The data layers have been structured in way that further information can be included.

Completeness:

The data layers are considered complete until more information is brought forward or collected. GHD recognises a need for all services to be available as a complete network. This however would require extra time for manipulation and verification of the data.

SPATIAL REFERENCE

Horizontal Coordinate System:

Cocos (Keeling) Island Grid 1992 (CKIG92)

Projection:	Transverse Mercator
Datum:	WGS 1984
Spheroid:	WGS 1984
False Easting:	50000
False Northing:	1400000
Central Meridian:	96.875
Scale Factor:	1
Units:	Metres

Horizontal Positional Accuracy:

Some positional errors exist but are within 2m in horizontal accuracy. GHD does not warrant the actual positions of some of the features that have been identified and recorded.

CONTACT INFORMATION

Contact Organisation: GHD Pty Ltd
Contact Position: GIS Analyst – Barry Lei
Mail Address: 239 Adelaide Tce
Locality: Perth
State: Western Australia
Country: Australia
Post code: 6004
Telephone: 618+94296666
Facsimile: 618+94296555
Electronic Mail Address: perthmail@ghd.com.au
Metadata Date: 2003-06-27