

Supply of design data for GIS data entry

1. PURPOSE

To define the format and content of electronic mapping data received by East Gippsland Water (EGW) for information to be entered to the EGW Geographical Information System (GIS) as proposed (Design) infrastructure.

2. APPROVAL

Managing Director.

3. PROCEDURE

3.1 INTRODUCTION

Layers have been created in the EGW GIS to hold design information on water mains, sewer mains, sewer manholes, and water and sewer pipe fittings. This data consists of lines representing pipes and points representing manholes and fittings. The symbolisation of these items is done within the GIS.

Data supplied to EGW in the format described in this document will be imported into the GIS by a software process which will require very little human intervention.

NOTES:

- If data is received does not conform to these specifications, that data will be returned to the supplier with comment by the GIS Coordinator as to why the data does not meet EGW's requirements.
- EGW's GIS is a 2-D system. It is expected that all map data received according to this specification will be defined by East and North coordinates projected to GDA94 Zone 55 or offsets from the property boundary/prominent feature for the case of paper-based map.

3.2 WHY CADASTRAL DATA IS REQUIRED

The cadastral base of land parcels is used in identification of common points on the cadastre between EGW's VicMap dataset and the cadastre included with data delivered according to this SOP.

3.3 FORMAT OF ELECTRONIC DATA REQUIRED

- Esri Shapefile or File geodatabase
 - All coordinates projected to GDA94 Zone 55. Please contact the GIS Coordinator before data delivery on (03) 5150 4463 if you anticipate trouble meeting this requirement.
 - Files for each shapefile supplied are (.shp, .shx, .dbf, .prj).
 - Shapefiles are to be named according to the service. For example, water for water data and sewer for sewer data.
 - If it is an Esri file geodatabase, one file (.gdb) is expected.
- AutoCAD file
 - All coordinates projected to GDA94 Zone 55.
 - One .dwg or .dxf file containing individual layers, and named in relation to the service.
- Paper-based map
 - Layers are required to have offsets from the property boundary and also from the prominent features (Fireplugs, Manholes and Valves) where possible.
 - Layers are to be marked or labelled with respect to the service (water or sewer).
 - House numbers and roads are also essential.

3.4 ATTRIBUTE DATA REQUIRED

- Water
 - Water main – diameter, material, pressure rating, main type, depth, method of installation, installation date, manufacturer
 - Fireplug – diameter, model, direction of rotation, installation date, manufacturer.
 - Lateral-line – diameter, pressure rating, installation date and material.
 - Stop valve and control valve – diameter, direction of rotation, valve type, model, and manufacturer, installation date, standard operating position (open or closed).
 - Fitting – type, diameter (if applicable), installation date.
 - Location status of the retired mains and fittings (does it exist in the ground or not?)
- Sewer
 - Gravity main – diameter, material, pressure rating, main type, method of installation, upstream and downstream depth, upstream and downstream invert

levels, installation date, relining details if it was retired(date, material, method of relining and manufacturer), manufacturer.

- Pressurized main – diameter, material, pressure rating, main type, method of installation, installation date, manufacturer
- Manhole – diameter, wall material, cover type, manhole type, depth to invert, invert level, surface level, chainage distance, installation date, manufacturer.
- Stop valve and control valve – diameter, direction of rotation, valve type, model, and manufacturer, installation date, standard operating position (open or closed).
- Fitting – type, diameter (if applicable), installation date.
- Lateral-line - diameter, pressure rating, installation date and material, relining details if it was retired(date, material, method of relining and manufacturer)
- Service connection point – depth, offset, sideline length, distance to chainage manhole, installation date.
- Location status of the retired mains and fittings (does it exist in the ground or not?)

3.5 PERSON TO CONTACT

- Data should be delivered to the GIS Coordinator:
 - Email: DBukenya@egwater.vic.gov.au or support@egwater.vic.gov.au
 - Phone: 03 5150 4463