

1. PURPOSE

To define the format and content of electronic mapping data received by EGW for information to be entered to the EGW GIS as Proposed (Design) infrastructure.

2. APPROVAL

IT Manager.

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 stopvalves. This data consists of lines representing pipes and points representing manholes and stopvalves. The symbolisation of these items is done within the GIS.

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

NOTES:

- If data is received which 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.
- Design data supplied according to this specification will have no attributes. It is later, during the entry of *as-constructed* data, that attributes such as material and diameter are entered to the GIS.
- Electronic drawings usually consist of two parts, namely the frame and title strip data plus map data. EGW is only interested in the map data. For example, if design information for sewer pipes and manholes is received, that data will consist of:
 - points (manholes)
 - lines (sewer mains)
 - polygons or lines (land parcels)

3.1 Why Cadastral Data is Required

EGW has a software process in place to check the registration of any data destined for the GIS. The cadastral base of land parcels is used in this process and involves the identification of common points on the cadastre between EGW's Vicmap dataset and the cadastre included with data delivered according to this SOP.

3.2 Format of Electronic Data Required

- All coordinates projected to GDA94 Zone 55. Please contact the GIS Coordinator before data delivery on (03) 5150 4433 if you anticipate trouble meeting this requirement.
- Separate layers (for DXF) or files (for Shapefiles) for:
 - Land parcels as lines or polygons covering the extent of the design works,
 - Pipes as lines,
 - Manholes as points (may not be applicable),
 - Water stopvalves as points (may not be applicable).
- Standard Layer Names of:
 - “LAND_PARCELS”
 - “WATER_MAINS”
 - “SEWER_MAINS”
 - “MANHOLES”
 - “STOP_VALVES”
- Data in interchange format. One of:
 - **Autocad DXF** – one ASCII file with layers having Standard Layer Names as defined above. Data types one of either:
 - “POINT” or
 - “LINE” or
 - “POLYLINE”.
 - **ESRI Shapefiles** – one (.SHP + .SHX + .DBF) triplet of files for each of the layers supplied. Data types for a single shapefile one of either:
 - “POINT” or
 - “POLYLINE” or
 - “POLYGON”.

Shapefiles are to be named according to the Standard Layer Names. For example, for water main data we would expect the three files:

 - WATER_MAINS.SHP and
 - WATER_MAINS.SHX and
 - WATER_MAINS.DBF.
- Symbolisation such as point symbols and line styles is done within the GIS, hence the simple data format required under this SOP.
- You can check the validity of your data before sending it to EGW. Do so by going to <https://shop.tatukgis.com/downloads/DownloadList.aspx> and downloading and installing the TatukGIS Free Viewer which is listed towards the bottom of the page. If the file(s) you intend sending to EGW open in the TatukGIS Free Viewer and the coordinates displayed appear to agree with GDA94 Zone 55 you can be fairly sure that your data will be acceptable to EGW. Both DXF and Shapefiles are compatible with this viewer.
- Data should be delivered to Ian Hall, GIS Coordinator, as <mailto:ihall@egwater.vic.gov.au>