
Gippsland Water – Design Audit Report

Information to Auditors

What is expected.

Gippsland Water under contract GWS280 requires selected Contractors from the Panel of Providers to undertake random design auditing on selected water & wastewater projects submitted to Gippsland Water prior to construction. Gippsland Water wishes to achieve a uniform auditing standard from all of its Auditors. This is not easy to achieve as individual Auditors often have different views on what is deemed acceptable practice. With this in mind Auditors are asked to follow the Standards and Addendum Documents, and if in doubt question the Contract Project Officer.

Auditors are expected to have relevant design experience and be fully aware of the requirements of the following Standards and documents:

- WSA 02-1999 (Sewerage Code).
- WSA 03-1999 (Water Reticulation Code).
- WSA 01-1999 (Polyethylene Code).
- Water Industry Technical Standards (WITS) Volume 4 – Sewage Pumping Stations.
- Addendum to the Water Industry Technical Standards and National Codes of Practice (Gippsland Water document). Including all documents contained within.

Design Audits shall cover:

- Compliance with documented design standards for water and sewerage reticulation projects, sewage pumping stations & rising mains.
- Compliance with relevant Drafting Specifications and Australian Standards.
- Acceptable presentation in line with industry standards and expectations.

What you will receive from Gippsland Water.

Gippsland Water will provide you with the following:

- Mainpac job request.
- Hard copy of the drawings (usually A3 size).
- Acrobat PDF files of the drawings if supplied in email format.
- Print or extracts from the GIS system if required.
- Plans of subdivision if required.

About the auditing criteria.

The document "Design Audit Report Criteria.doc" provides the basic auditing criteria which is believed will enable basic checking of all designs. It does not cover all cases but is the suggested minimum reporting requirement. Auditors may wish to include more checking points and are encouraged to tailor this document to suit their own setup or standards. However, the minimum reporting requirement must be met.

Auditors should consider all aspects of the design and not just audit to the minimum reporting requirement.

What to be aware of.

Previous experience with design auditing has enabled us to provide a list of common problems and non-conformances that are often encountered.

We are finding that the following issues most often fail the audit process:

- Insufficient setout information (eg. offsets, coordinates)
- Sewer pipe grades too flat for number of property connections.
- Failure to provide total lot control for sewers.
- Insufficient easements provided.
- Maintenance structure numbering not in accordance with the existing system.
- Incorrect pipe material chosen for expected sewage quality or application.
- Insufficient pipe cover.
- Poor selection of location for valves, fireplugs & maintenance structures.

The following issues related to the drawings also regularly fail the audit process:

- Presentation of the design does not meet the required Standards.

- Drawing scales not to Standards.
- Bar scale(s) missing for all or some drawing scales.
- Text positioned on linework and text on text.
- Lack of required information
- Drawing titles do not meet Gippsland Water's standard for title formatting.

Your Performance.

Auditors are advised that Gippsland Water may decide to pass the same audit request to other Auditors to gauge performance and consistency. Results will be compared and all parties notified of the results.