

TESTING REQUIREMENTS

PRESSURE TESTING:

- **WATERMAIN (Potable)**
1600 kPa. to be held for 30 minutes. **RESPONSIBILITY** SA Water
- **WATERMAIN (Non potable)**
1200 kPa to be held for 30 minutes **RESPONSIBILITY** SA Water
- **SEWER PUMPING MAIN PRESSURE TEST.**
Double maximum pump output held for 30 minutes (or as specified by superintendent's representative)
RESPONSIBILITY SA Water
- **SEWER GRAVITY MAIN AIRTEST**
50 kPa to be maintained, by use of a regulator, for 3 mins then shut off. If the pressure doesn't fall for a further 3 mins, the test is deemed to have passed. If the pressure starts to drop within the second 3 min period, the pressure does not to fall below 35 kPa after 15 mins, the test is deemed to have passed.
RESPONSIBILITY Consulting Engineer

COMPACTION TESTING:

By NATA accredited Laboratory

**To be to Consultant Engineer's or the relevant Road Authorities specification if higher.
Minimum density requirements shown.**

- **WATER MAIN (Potable and non potable) REQUIRED = 100% SMDD**
REFER SECTION B IN BLUE BOOK
All testing to be carried out in sand only for water main and connections.
One test per 50m zone. Service connection tests required = 20% (**one per group of five service connections**), to be carried out in road pavement up to 300mm behind kerb line or road shoulder to road pavement compaction requirements.
- **SEWER PRESSURE MAIN REQUIRED = 100% SMDD**
Same as water main.
- **SEWER REQUIRED = 95% SMDD**
REFER SECTION G IN RED BOOK One test per
one metre layer of fill (or part there of) for each 50m zone **and** between any two adjacent maintenance holes where the maintenance hole spacing is less than 50 metres.
One test per one metre layer of fill at each chamber.
Connection tests required = 20% (**one per group of five connections**). **To be carried out in road pavement up to 300mm behind kerb line or road shoulder to road pavement compaction requirements.**
- **SEWER MAINTENANCE HOLE (MH)**
- A leakage test shall then be carried out for a **minimum of 24 hours**. The chamber shall be deemed to be satisfactory if it shows no visible leakage of water through the walls of the chamber, and the drop in water level does not exceed 3 mm per hour for the duration of the test. Refer "Sewer Manual" – "WSAA Code Supplement" – "Construction"
RESPONSIBILITY Consulting Engineer

SEWER BACKFILL IN EXISTING ROADWAYS

- a) PM2/20 = 100% SMDD or
- b) TS4 sand = 100% SMDD

NOTE: When using TS4 sand, one of the following is required: -
either a 300mm core of compacted fill over screenings or
geotextile membrane between screenings and sand.

**ALL TEST RESULTS TO RELEVANT FIELD OPERATIONS OFFICER A MINIMUM OF
10 WORKING DAYS PRIOR TO LAYING OF BITUMEN.**