

- A. Infiltration test shall be conducted upon completion of the permanent construction of the tunnel to verify the joints are water tight. The infiltration test shall be carried out after dewatering is stopped and the groundwater has attained normal levels. In the case of lined concrete pipes the leakage tests shall be carried out after installation and before the liners of the successive pipes are joined and sealed. After joining and sealing of the liners, there shall be no evidence of a build-up of groundwater pressure at the joints of the concrete pipe.
- B. Man entry pipelines shall be visually inspected only. Any leaks to be repaired / stopped.
- C. Infiltration or pipe deflection is not permitted in sections of pipelines underneath roads, paved areas and services.
- D. In the event of the works failing the test, for whatever reason, the Contractor shall take such remedial action as is necessary to correct the deficiencies, subject to the Engineer's approval of any methods proposed. The works shall be re-tested until such time as the works pass the test.

### **1.3.13 Project Record Documents**

- A. The Contractor shall maintain and submit to the Engineer after each working shift a log which records the following:
  - 1. Identification number of pipes installed during shift and name of operator.
  - 2. Strata encountered.
  - 3. Position and orientation of the lead ten pipes.
  - 4. Forces used on both main and interjack rams during driving of each pipe.
  - 5. Line and level.
  - 6. Roll of pipejacking shield.
  - 7. Maximum rate of advance.
  - 8. Distance moved.
  - 9. Thrust from ground on face of machine.
  - 10. Volume of lubricant used, location of injection and pressure at point of injection.