

SECTION 7.03

TESTING OF COMPLETED SEWER SYSTEM

All gravity sewer facilities shall be subjected to air pressure testing, lamping and deflection testing.

Prior to testing all lines and manholes shall be cleaned. Sanitary sewer system must be complete before testing by the Authority. This includes finished manholes inside and out, clean-outs in proper location and base course pavement over lines to be tested.

The tests shall be performed between two manholes or as otherwise directed by the Engineer for the Authority and shall include all related sewerage including laterals and clean outs.

The applicant's contractor shall furnish all labor, material and equipment necessary for the testing.

Air pressure testing shall start at a minimum of 5.0 PSIG with a 0.5 PSIG allowable drop over the time required, see table blow. The air pressure correction, which must be added to the 5.0 PSIG normal test starting pressure, shall be calculated by dividing the average vertical height, in feet of groundwater above the invert of the sewer pipe to be tested, by 2.31. The result gives the air pressure correction in pounds per square –inch result gives the air pressure connection in pounds per square –inch to be added. In no case should the starting test pressure exceed 9.0 PSIG.

All lines from manhole to manhole shall be lamped or CCTV inspected for alignment. The applicant's Contractor shall pass a device through the pipe that will check for excessive vertical deflection. A pipe that has deflected more than 5% of its diameter is considered to have deflected excessively. The test shall be conducted a minimum of thirty (30) days after installation. The device for checking the deflection shall be provided by the applicant's Contractor. Details of the device shall be submitted to the Authority's engineer for approval, prior to its use.

Note that the deflection device shall be pulled through the pipeline using only the force of one (1) man without the aid of any devices other than the rope/chain attached to the deflection device.

Any piping found to have deflected excessively shall be replaced or repaired as directed.

Any pipe, joint or other part of the sewer construction found to show leakage in excess of the permissible limit shall be repaired, or removed and replaced in accordance with latest revision of "Repair Guidelines" published by Utility Contractor's Association of New Jersey.

Requirements for pressure testing of force mains and pump stations and for equipment performance testing at Pump stations and treatment plants shall be established by the Authority.