Leakage Testing Procedures

Gravity Sewers

- 1. All tests shall be conducted under the supervision of the engineer.
- 2. Sewers may be tested either hydrostatically using an infiltration or exfiltration test or with a low pressure air test
- 3. Leakage shall not exceed 100 gallons per mile of pipe per day per inch of nominal pipe diameter.
- 4. Calculations clearly indicating compliance are required. Low-pressure air tests must conform to NYSDEC pamphlet TIP 15 (4/19/89).

Force Mains

- 1. All tests shall be conducted under the supervision of the engineer.
- 2. Pressure tests shall be made after completion of backfilling operations and at least 36 hours after any concrete thrust blocks have been cast.
- 3. The test <u>must</u> be hydrostatic. The allowable leakage shall be calculated using AWWA Standard C600.
- 4. Test pressure shall be at least 50 psi or 1 ½ times the maximum system operating pressure, whichever is greater.
- 5. The duration of the test will be two (2) hours.

Manholes

Both vacuum testing and hydrostatic testing are acceptable. If a manhole fails a vacuum test, after repair it must be tested hydrostatically. Vacuum testing must conform to NYSDEC TIP 15 (4/19/89).

References

All testing shall be performed in accordance with NYSDEC Technical Information Pamphlet No. 15 dated April 19, 1989. ASTM C-828 for clay pipe, ASTM C-924 for concrete pipe, ASTM F-1417 for plastic pipe.