

# WATER MAIN PRESSURE TEST REPORT

PROJECT NAME \_\_\_\_\_  
 PROJECT NUMBER \_\_\_\_\_  
 CONTRACTOR \_\_\_\_\_

Calculations for Allowable Leakage

$$L = \frac{SD \sqrt{P}}{133,200} \quad L = \frac{ND \sqrt{P}}{7400} \quad \text{[AWWA Formula]}$$

Conversions

128 oz/gal  
 7.48 gal/ft<sup>3</sup>

Where:

- L = Allowable Leakage in gallons per hour
- N = Number of Joints
- D = Diameter of pipe in inches
- P = Test pressure (square root) in psi
- S = Length of pipe being tested

NOTES:

- 1) Test pressure to be 1.5 times normal static pressure (min. pressure of 100 psi).
- 2) Duration of test shall be 2 hours.

TEST INFORMATION							
Location	Date	Test Pressure	Test Duration	Allowable Loss	Actual Loss	Pass	Fail

Remarks: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Project Representative \_\_\_\_\_  
 Contractor \_\_\_\_\_  
 Utility Representative \_\_\_\_\_

Allowable leakage at various pressures and pipe sizes are shown in the Table below (from AWWA C600 - Table 6A):

**Allowable Leakage Per 1,000 Feet of Pipeline\* - gallons per hour**

Test Pressure \ Pipe Dia.	3"	4"	6"	8"	10"	12"	14"	16"	18"	20"	24"	30"	36"	42"	48"	54"
250	0.36	0.47	0.71	0.95	1.19	1.42	1.66	1.90	2.14	2.37	2.85	3.56	4.27	4.99	5.70	6.41
225	0.34	0.45	0.68	0.90	1.13	1.35	1.58	1.80	2.03	2.25	2.70	3.38	4.05	4.73	5.41	6.03
200	0.32	0.43	0.64	0.85	1.06	1.28	1.48	1.70	1.91	2.12	2.55	3.19	3.82	4.46	5.09	5.73
175	0.30	0.40	0.59	0.80	0.99	1.19	1.39	1.59	1.79	1.98	2.38	2.98	3.58	4.17	4.77	5.36
150	0.28	0.37	0.55	0.74	0.92	1.10	1.29	1.47	1.66	1.84	2.21	2.76	3.31	3.86	4.41	4.97
125	0.25	0.34	0.50	0.67	0.84	1.01	1.18	1.34	1.51	1.68	2.01	2.52	3.02	3.53	4.03	4.53
100	0.23	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	1.50	1.80	2.25	2.70	3.15	3.60	4.05

\*If the pipeline under test contains sections of various diameters, the allowable leakage will be the sum of the computed leakage for each size.