



WATERFLOW TEST SUMMARY

Contact Scada/Dispatch at 817.743.4200 to schedule a hydrant flow test

City of Keller Project Name:	
Address/Location of Test:	
Test Date and Time	

Flow Test Requested By:		Test Conducted By:	
Company Name:		Company Name:	
Phone Number:		Phone Number:	
Email Address:		Email Address:	

Residual Hydrant:

Hydrant ID: _____

Main Size: _____

Static Pressure (psi): _____

Residual Pressure (psi): _____

Flow Hydrant:

Hydrant ID: _____

Main Size: _____

Velocity Pressure (Pitot Reading) (psi): _____

Flow Rate (gpm): _____

Notes:

All fields on this form shall be completed before it is submitted. Any form with blank fields will be considered incomplete and will not be processed. Submit this form with your Fire Sprinkler plan review.

Note: This information represents the water supply characteristics in the area on the date and time tested. The City of Keller does not guarantee this data will be representative of the water supply characteristics at any time in the future. It is the requesting party's responsibility to ensure that this test information is appropriate to the location of the project in question and that any differences in elevation between the test location and project are accounted for and included in the hydraulic calculations.

Conducted by - Print Name: _____ Signature: _____

Witnessed by - Print Name: _____ Signature: _____



WATERFLOW TEST PROCEDURES

A set of three water pressure measurements are recorded from two hydrants. One hydrant is known as the residual hydrant and is located on or near the water main where a new water connection is desired. From this residual hydrant, a static pressure and a residual pressure will be measured.

The other hydrant, known as the flow hydrant, is generally the nearest hydrant away from the test hydrant. The flow hydrant is fitted with a diffuser device containing a pitot tube that measures stagnation pressure in the middle of the stream while the hydrant is flowing.

First, a static pressure gauge is attached to the residual hydrant and the static water pressure is measured at that residual hydrant.

Second, the flow hydrant opened fully to allow water to flow. Simultaneously the pitot tube pressure is recorded from the flow hydrant while the residual pressure is measured from the test hydrant.

These three pressures, the static pressure, the stagnation pressure (Pitot), and the residual pressure, along with a specified design pressure of 20psi taken from the American Water Works Association (AWWA) or the NFPA are input into the Hazen-Williams formula to calculate the available flow for the fire sprinkler system.