CONTRACTOR OF THE PARTY OF THE	City Utilities Design Standards Manual	Exhibit W5-9 Translation of Flow Test Results Worksheet	
		Created: January 1, 2002	Revised: June 10, 2014
Step 1: List Variables			
FLOW TEST ID # *			
ST_{FT} = Static Pressure @ Pressure Hydrant location			psi *
RP _{FT} = Residual Pressure @ Pressure Hydrant location			psi *
Q_{FT} = Flow rate @ Residual Pressure of flow test			gpm*
Q_{DD} = Flow rate of Design Demand			gpm
RP_{DD} = Residual Pressure @ Pressure Hydrant @ Design Demand see below			see below

* = Directly read from FLOW TEST

Step 2: Determine RP_{DD}

$$RP_{DD} = ST_{FT} - \left[(ST_{FT} - RP_{FT})^{1/1.85} * Q_{DD} - Q_{FT} \right]^{1.85}$$

