

HYDRANT FLOW TEST SHEET

ADDRESS / LOCATION	FERNANDEZ AVE/SOUTH OF GUSTINE
--------------------	--------------------------------

HYDRANT NUMBER	FH63273010	VALVE SIZE	6"
----------------	------------	------------	----

HYDRANT TYPE	3WAY	YEAR	1992	HYDRANT MAKE	MUELLER
--------------	------	------	------	--------------	---------

DATE	04/26/22	TIME		DONE BY	RANDY VOGEL
------	----------	------	--	---------	-------------

MAIN SIZE	12"	MAIN TYPE	AC	HYDRANT RUN	6"
-----------	-----	-----------	----	-------------	----

MAIN OBSERVED FLOW		MAIN CALCULATED FLOW	
HYDRANT OBSERVED FLOW	755	HYDRANT CALCULATED FLOW	924
URNS ON FIRE HYDRANT	18		
PORT SIZE	2.5		
STATIC	142		
RESIDUAL	58		
PITO	20		

NEW HYDRANT	MISSED HYDRANT	REPAIRED HYDRANT	FLOW TEST INFO
☐	☐	☐	☒
OTHER REASON FOR FLOW TEST			

MAIN RESIDUAL TAKEN AT: 3WAY HYDRANT

TEST EQUIPMENT: HOSE MONSTER

TEST REQUESTED BY: ANGIE MALDONADO

PHONE NUMBER(S): 714-521-4811

EMAIL ADDRESS: ANGIE@THIENESENG.COM

REASON FOR FLOW TEST: NEW CONST.

SIGNATURE:

Randy Vogel

THE INFORMATION CONTAINED IN THIS DOCUMENT IS FOR THE USE OF THE LIBERTY UTILITIES/ APPLE VALLEY RANCHOS WATER COMPANY ONLY. ANY CALCULATION NEEDED SHOULD BE OBTAINED BY A LICENSED, PROFESSIONAL ENGINEER, OR A STAT LICENSED CONTRACTOR.



Liberty Utilities®

Convert fire flow data to 20psi

$$\begin{array}{lcl}
 \text{Static Water Pressure in psi} \rightarrow & \left(\frac{142}{142} - \frac{20}{58} \right) & \begin{array}{l} \downarrow \text{to the power of} \\ \mathbf{0.54} \end{array} \\
 \text{Static Water Pressure in psi} \rightarrow & \left(\frac{142}{142} - \frac{20}{58} \right) & \begin{array}{l} \leftarrow \text{Desired Pressure psi} \\ \leftarrow \text{Residual Water Pressure} \end{array} \\
 & \uparrow = & \uparrow \text{Quotient} \\
 & & 1.45238
 \end{array}$$

$$\begin{array}{lcl}
 \text{Observed (gpm) Flow} \downarrow & & \downarrow \text{Fire Flow @ 20psi} \\
 = 1.22 \times 755 = & & \mathbf{924 \text{ gpm}} \\
 \uparrow \text{Quotient to power of 0.54 (rounded)} & &
 \end{array}$$

Insert Static Pressure here → 142
 Insert Residual Pressure here → 58
 Insert Observed Flow here → 755

Note: *This spreadsheet is intended to be used as a tool to quickly convert acquired flow numbers. The actual fire flow required and available for any given project requires ongoing analysis and consultation with a fire protection professional to determine more accurately what the actual conditions in the field are and how they may impact the project in question.*

HYDRANT FLOW TEST SHEET

ADDRESS / LOCATION	GUSTINE/SOMIS AVE
--------------------	-------------------

HYDRANT NUMBER	FH63274001	VALVE SIZE	6"
----------------	------------	------------	----

HYDRANT TYPE	3WAY	YEAR	1992	HYDRANT MAKE	MUELLER
--------------	------	------	------	--------------	---------

DATE	04/26/22	TIME		DONE BY	RANDY VOGEL
------	----------	------	--	---------	-------------

MAIN SIZE	12"	MAIN TYPE	AC	HYDRANT RUN	6"
-----------	-----	-----------	----	-------------	----

MAIN OBSERVED FLOW		MAIN CALCULATED FLOW	
HYDRANT OBSERVED FLOW	1068	HYDRANT CALCULATED FLOW	2214
TURNS ON FIRE HYDRANT	18		
PORT SIZE	2.5		
STATIC	128		
RESIDUAL	100		
PITO	40		

NEW HYDRANT	MISSED HYDRANT	REPAIRED HYDRANT	FLOW TEST INFO
☐	☐	☐	☒
OTHER REASON FOR FLOW TEST			

MAIN RESIDUAL TAKEN AT: 3WAY HYDRANT

TEST EQUIPMENT: HOSE MONSTER

TEST REQUESTED BY: ANGIE MALDONADO

PHONE NUMBER(S): 714-521-4811

EMAIL ADDRESS: ANGIE@THIENESENG.COM

REASON FOR FLOW TEST: NEW CONST.

SIGNATURE: Randy Vogel

THE INFORMATION CONTAINED IN THIS DOCUMENT IS FOR THE USE OF THE LIBERTY UTILITIES/ APPLE VALLEY RANCHOS WATER COMPANY ONLY. ANY CALCULATION NEEDED SHOULD BE OBTAINED BY A LICENSED, PROFESSIONAL ENGINEER, OR A STAT LICENSED CONTRACTOR.



Liberty Utilities®

Convert fire flow data to 20psi

$$\begin{array}{lcl}
 \text{Static Water Pressure in psi} \rightarrow & \left(\frac{128}{128} - \frac{20}{100} \right) & \begin{array}{l} \downarrow \text{to the power of} \\ \mathbf{0.54} \end{array} \\
 \text{Static Water Pressure in psi} \rightarrow & \left(\frac{128}{128} - \frac{20}{100} \right) & \begin{array}{l} \leftarrow \text{Desired Pressure psi} \\ \leftarrow \text{Residual Water Pressure} \end{array}
 \end{array}$$

$$\uparrow = 3.85714 \quad \uparrow \text{Quotient}$$

$$\begin{array}{lcl}
 \text{Observed (gpm) Flow} \downarrow & & \downarrow \text{Fire Flow @ 20psi} \\
 = 2.07 \times 1068 = & \mathbf{2214} & \text{gpm} \\
 \uparrow \text{Quotient to power of 0.54 (rounded)} & &
 \end{array}$$

Insert Static Pressure here → 128
 Insert Residual Pressure here → 100
 Insert Observed Flow here → 1068

Note: *This spreadsheet is intended to be used as a tool to quickly convert acquired flow numbers. The actual fire flow required and available for any given project requires ongoing analysis and consultation with a fire protection professional to determine more accurately what the actual conditions in the field are and how they may impact the project in question.*