Hydraulic Model Data Summary

Brief Description of Project:					
Hydraulic Mo	del Input Summary	:			
Entire d Part of t	istribution system is mo he distribution system i ap is provided	odeled			
If only part of th	e distribution is modele	ed, what is the basis	s for model deve	lopment:	
Hydrant	flow test:	gpm @	psi residu	al pressure	
Other: _	from storage tank: wate				
Based Upon	er Demand: Q = Census data x gj Historical Usage Data Other: I Industrial Demand:	pcd ı			
	$Q_{avg} = $ gpm	c	, ,		
Maximum Day I	Demand: Q _{avg} x 2.0 peaking factor Other:			pm	
Peak Hour Dema Based Upon:	and: Q _{avg} x 4.0 peaking factor Other:	_			
-	n included in the project ire flow and duration:		No gpm for	hours	

Does the proje	ect include gravity storage?	Yes No			
(If more than o	one tank is included in the model,	provide addition	nal tank ir	nformation on attached	
sheets.)		-			
If Yes,	Storage tank nominal capacity:			gallons feet feet	
	Tank base elevation:				
				feet	
				feet	
	ect include pumps? Yes one pumping station is included in eets.)	No n the model, prov	vide addit	ional tank information	
If Yes,	Number of pumps provided:			feet TDH	
	Single pump capacity: Combined pump capacity:		_ gpm @		
	been calibrated based on actual h	•	Yes	No	

Pipe Roughness Coefficient: C = _____

Hydraulic Model Output Summary:

Peak Flow Evaluation:

The model output must demonstrate that a 20 psi minimum pressure can be maintained at all locations during peak hour demand <u>or</u> maximum day demand plus a simultaneous fire flow event, whichever is greater. Typically, the starting tank elevation should be the normal low tank level. The model should perform an extended period simulation to run through the entire designated fire flow event (i.e., 500 gpm for 2-hours) during max day demand. A simple snap shot of max day + fire flow at the beginning of the fire duration may be appropriate in simple models. <u>Model must also assign a node and appropriate demand at the highest elevation.</u>

Junction Report for Max Day + Fire Flow (or peak hour if greater)	
Pipe Report for Max Day + Fire Flow (or peak hour if greater)	
Tank Report, as needed	
Pump Report, as needed	
Fire Flow Report (in lieu of Junction Report)	

Critical Node Output:

Node Elevation:_____ Pressure: _____

Effective Storage Evaluation:

Available effective storage is determined based on the minimum storage tank water surface elevation necessary to maintain a minimum pressure of 20 psi at all locations in the distribution system during maximum day flow.

Reports submitted:	Junction Report for Max Day				
	Pipe Report	t for Max Day			
	Tank Report	rt			
	Pump Report, as needed				
Critical Node Output:					
Node Identification: Flow:		Node Elevation: Pressure:			
Storage Tank Identifica	tion:				
(If more than one tank i sheets.)	s included in the mo	del, provide additional tank informati	ion on attached		
Minimum elevation nec	essary under maxim	um day domestic flow:	feet		
Overflow elevation:	-	· · · · · · · · · · · · · · · · · · ·	feet		
Tank bottom elevation:			feet		
Effective storage volum	ne:		gallons		