ESTIMATE ADDITIONAL COSTS FOR CHANGES TO WATER SYSTEM OPERATION

WATER SYSTEM CAPACITY AND CAPABILITY:

- 1. CURRENTLY (13) ACTIVE WELLS WITH TOTAL CAPACITY OF 44.350 MGD, OR APPROX. 30,800 GPM (REF. 2015 PSC REPORT).
- 2. AVERAGE PUMPING CAPACITY OF EXISTING WELLS IS 2,246 GPM (REF. 2015 PSC REPORT).
- 3. ANNUAL AVERAGE (2015 DATA) WATER PRODUCTION OF 10.6 MGD, OR APPROX. 7,361 GPM.
- 4. AVERAGE WATER SYSTEM FLUSHING RATE OF APPROX. 8,900 GPM WHILE SIMULTANEOUSLY FILLING RESERVOIR.

ESTIMATED UNIT COSTS RELATED TO WATER SYSTEM OPERATION:

1.	WATER VOLUME PER FOOT OF DEPTH IN RESERVOIR IS	250,000	GALLONS
2.	POWER COST:		
	ANNUAL POWER USED (2015 ACTUAL):	5,278,720	KWH
	ANNUAL PUMPAGE (2015 ACTUAL):	3,866,134	X 1000 GALLONS
	POWER USE RATE (2015 ACTUAL) OF	1.37	KWH PER 1000 GALLONS OF WATER PUMPED
	CURRENT XCEL RATE - ON PEAK ENERGY USE (SUMMER)*	\$0.073	PER KWH
	CURRENT XCEL RATE - ON PEAK ENERGY USE (WINTER)*	\$0.068	PER KWH
	CURRENT XCEL AVERAGE RATE - ON PEAK ENERGY USE	\$0.070	PER KWH
	CURRENT XCEL RATE - OFF PEAK ENERGY USE*	<u>\$0.058</u>	PER KWH
	AVERAGE INCREMENTAL ADDED COST FOR ON PEAK OPERATION	\$0.012	PER KWH
	* PEAK HOURS ARE 9:00 AM TO 9:00 PM; DAILY.		
3.	AVERAGE DEMAND CHARGE (2016 XCEL ENERGY RATES) OF	\$2,090	PER MONTH PER WELL

MINIMUM COSTS PER ADDITIONAL FOOT OF WATER STORED IN RESERVOIR:				
 POWER COST TO PUMP ADDITIONAL 250,000 GALLONS PER DAY - ON PEAK DEMAND CHARGE FOR MINIMUM OF ONE ADDITIONAL WELL OPERATING PER DAY: 				
ESTIMATED MIN. ADDITIONAL COST	\$26,201			
OTHER POTENTIAL CONSIDERATIONS:				

- 1. WATER AGE AND WATER QUALITY.
- 2. MINIMUM CHLORINE RESIDUAL REQUIREMENTS THROUGHOUT DISTRIBUTION SYSTEM.
- 3. EQUIPMENT WEAR AND MAINTENANCE.