

Water Calculations and Cost Estimates
Sage

Estimated Costs for the Facilities in Sage

No.	Description	Qty.	Unit	Unit Cost	Total Cost	
1	From South Boundary to West area					
1.1	Transmission					
	16" Pipe	9,830	L.F.	\$192	\$1,887,360	
	14" Pipe	2,830	L.F.	\$168	\$475,440	
	12" Pipe	5,540	L.F.	\$144	\$797,760	
	10" Pipe	12,880	L.F.	\$120	\$1,545,600	
	8" Pipe	11,150	L.F.	\$96	\$1,070,400	
	Pump Station 2	70	hp		\$400,000	
1.2	Storage					
	Tanks	1,400,000	Gal	\$1	\$1,400,000	
					Subtotal =	\$ 7,577,000
2	From South Boundary to East area					
2.1	Transmission					
	10" Pipe	7,290	L.F.	\$120	\$874,800	
	8" Pipe	5,160	L.F.	\$96	\$495,400	
	Pump Station 3	25	hp		\$400,000	
2.2	Storage					
	Tanks	500,000	Gal	\$1	\$500,000	
					Subtotal =	\$ 2,270,000
Construction Total						\$ 9,847,000
3	Other Costs					
	Engineering Cost (20%)				\$ 1,969,400	
	Contingency (20%)				\$ 1,969,400	
					Subtotal	\$ 3,939,000
Total =						\$ 13,786,000

Note: 20 Cities ENRCCI = 7,942, May 2007

Estimated Water Supply Costs for Sage

No.	Description	Qty.	Unit	Unit Cost	Total Cost	
1	Facility Costs					
1.1	<i>Transmission</i>					
	16" Pipe	310	L.F.	\$192	\$59,520	
	10" Pipe	150	L.F.	\$120	\$18,000	
	8" Pipe	300	L.F.	\$96	\$28,800	
1.2	Well (500 gpm, including pump station)	4	Ea	\$700,000	\$2,800,000	
1.3	Tank	500,000	Gal	\$1	\$500,000	
1.4	Pump Station 1	300	hp		\$735,400	
					Construction Total =	\$ 4,141,700
2	Other Costs					
	Engineering Cost (20%)				\$ 828,300	
	Contingency (20%)				\$ 828,300	
					Subtotal =	\$ 1,656,600
					Total =	\$ 5,798,000

Note: 20 Cities ENRCCI = 7,942, May 2007