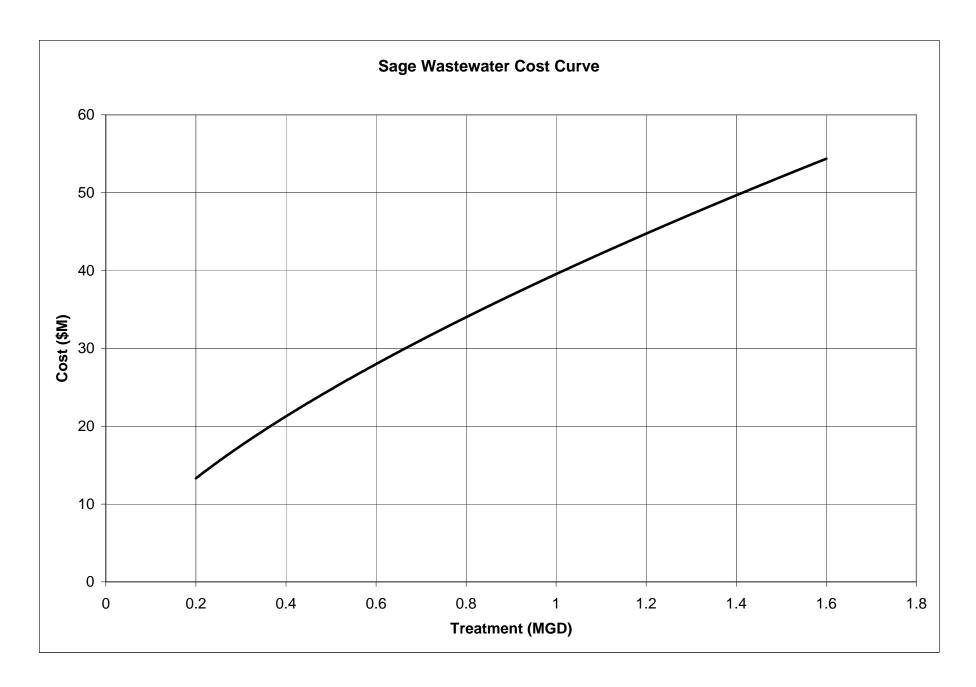


INTERCEPTORS							Comments		
Pipe Segment	Pipe (ft)	Diameter (In.)	Slope (ft/ft)	Node Q (mgd)	Total Q	Capacity 0.5 d/D (mgd)	Velocity (fps)	Full Pipe Capacity (mgd)	
Α	9,050	8	0.0400	0.18	0.18	0.73	6.4	1.5	Flow from Collection Area 2.
В	6,400	10	0.0200	0.54	0.54	0.93	5.3	1.86	50% Flow from Collection Area 1.
С	8,780	12	0.0200	1.07	1.07	1.52	6.0	3.03	Flow from Pipe B and 50% Flow from Collection Area 1.
D	9,160	14	0.0100	1.25	1.25	1.62	4.7	3.23	Combined Flow from Pipe A and C.
		I	RECLAIME	D WATER	PIPELINES	3			
E	9,100	8			0.70		3.1	0.00	Conveys total reclaimed flow.
F	15,100	6			0.53		4.1	0.00	Conveys 75% of total reclaimed flow.
G	9,000	4			0.18		3.1	0.00	Conveys 25% of total reclaimed flow.

SAGE INTERCEPTORS, RECLAIMED WATER PUMP STATIONS, AND RECLAIMED WATER PIPELINES COSTS

B 6,400 10 \$768,00 C 8,780 12 \$1,264,0 D 9,160 14 \$1,539,0 Sub Total \$4,400,0 RECLAIMED WATER PIPELINES E 9,100 8 \$874,00 F 15,100 6 \$1,087,0 G 9,000 4 \$432,00 Sub Total \$2,400,0 RECLAIMED WATER PUMP STATIONS North [b] \$1,000,0 South [b] \$1,000,0 Sub Total \$2,000,0 Total \$2,000,0	ERCEPTORS			
A 9,050 8 \$869,00 B 6,400 10 \$768,00 C 8,780 12 \$1,264,0 D 9,160 14 \$1,539,0 Sub Total \$4,400,0 RECLAIMED WATER PIPELINES E 9,100 8 \$874,00 F 15,100 6 \$1,087,0 G 9,000 4 \$432,00 Sub Total \$2,400,0 RECLAIMED WATER PUMP STATIONS North [b] \$1,000,0 South [b] \$1,000,0 Sub Total \$2,000,0	Pipe	Pipe	Diameter	City
B 6,400 10 \$768,00 C 8,780 12 \$1,264,0 D 9,160 14 \$1,539,0 Sub Total \$4,400,0 RECLAIMED WATER PIPELINES E 9,100 8 \$874,00 F 15,100 6 \$1,087,0 G 9,000 4 \$432,00 Sub Total \$2,400,0 RECLAIMED WATER PUMP STATIONS North [b] \$1,000,0 South [b] \$1,000,0 Sub Total \$2,000,0 Sub Total \$2,000,0 RECLAIMED WATER PUMP STATIONS North [b] \$1,000,0 South [b] \$1,000,0 Sub Total \$2,000,0 Sub Total \$2,000,0	terceptor	(ft)	(ln.)	Cost
C 8,780 12 \$1,264,0 D 9,160 14 \$1,539,0 Sub Total \$4,400,0 RECLAIMED WATER PIPELINES E 9,100 8 \$874,00 F 15,100 6 \$1,087,0 G 9,000 4 \$432,00 Sub Total \$2,400,0 RECLAIMED WATER PUMP STATIONS North [b] \$1,000,0 South [b] \$1,000,0 Sub Total \$2,000,0 Total \$8,800,0	Α	9,050	8	\$869,000
D 9,160 14 \$1,539,0 Sub Total \$4,400,0 RECLAIMED WATER PIPELINES E 9,100 8 \$874,00 F 15,100 6 \$1,087,0 G 9,000 4 \$432,00 Sub Total \$2,400,0 RECLAIMED WATER PUMP STATIONS \$1,000,0 South [b] \$1,000,0 Sub Total \$2,000,0 Total \$8,800,0	В	6,400	10	\$768,000
Sub Total \$4,400,0 RECLAIMED WATER PIPELINES E 9,100 8 \$874,00 F 15,100 6 \$1,087,0 G 9,000 4 \$432,00 Sub Total \$2,400,0 RECLAIMED WATER PUMP STATIONS North [b] \$1,000,0 South [b] \$1,000,0 Sub Total \$2,000,0 Total \$8,800,0	С	8,780	12	\$1,264,000
RECLAIMED WATER PIPELINES E 9,100 8 \$874,00 F 15,100 6 \$1,087,0 G 9,000 4 \$432,00 Sub Total \$2,400,0 RECLAIMED WATER PUMP STATIONS North [b] \$1,000,0 South [b] \$1,000,0 Sub Total \$2,000,0 Total \$8,800,0	D	9,160	14	\$1,539,000
E 9,100 8 \$874,00 F 15,100 6 \$1,087,0 G 9,000 4 \$432,00 Sub Total \$2,400,0 RECLAIMED WATER PUMP STATIONS North [b] \$1,000,0 South [b] \$1,000,0 Sub Total \$2,000,0 Total \$8,800,0	Total			\$4,400,000
F 15,100 6 \$1,087,0 G 9,000 4 \$432,00 Sub Total \$2,400,0 RECLAIMED WATER PUMP STATIONS North [b] \$1,000,0 South [b] \$1,000,0 Sub Total \$2,000,0 Total \$8,800,0	CLAIMED WAT	ER PIPEL	INES	
G 9,000 4 \$432,00 Sub Total \$2,400,0 RECLAIMED WATER PUMP STATIONS North [b] \$1,000,0 South [b] \$1,000,0 Sub Total \$2,000,0 Total \$8,800,0	Е	9,100	8	\$874,000
Sub Total \$2,400,0 RECLAIMED WATER PUMP STATIONS \$1,000,0 North [b] \$1,000,0 South [b] \$1,000,0 Sub Total \$2,000,0 Total \$8,800,0	F	15,100	6	\$1,087,000
RECLAIMED WATER PUMP STATIONS North [b] \$1,000,0 South [b] \$1,000,0 Sub Total \$2,000,0 Total \$8,800,0	G	9,000	4	\$432,000
North [b] \$1,000,0 South [b] \$1,000,0 Sub Total \$2,000,0 Total \$8,800,0	Total			\$2,400,000
South [b] \$1,000,0 Sub Total \$2,000,0 Total \$8,800,0	CLAIMED WAT	ER PUMP	STATIONS	
Sub Total \$2,000,0 Total \$8,800,0	North [b]			\$1,000,000
Total \$8,800,0	South [b]			\$1,000,000
·	Total			\$2,000,000
Engineering (20%) \$1.800.0	al	\$8,800,000		
1 U U \=-/-/	ineering (20%)	\$1,800,000		
Contingency (20%) \$1,800,0	tingency (20%)	\$1,800,000		
Total \$12,300,	al			\$12,300,000

[[]a] 20 Cities ENRCCI = 7,942 May 2007.[b] Does not include detailed cost analysis.



Sage Effluent Disposal

Area	Disposal Land (ac)	Available Effluent Disposal (AFY)
Irrigated Reclamation Fields	231 (a)	675
Effluent Storage Pond	66 (b)	427
Total		1102

- (a) Acreage based on 3.5 ac-ft/yr demand. Assumes no other reclaimed water usage.(b) Acreage based on 139 million gallon basin with 8 ft depth and 3:1 side slopes

Costs	Area	Cost unit	Total
Irrigation Cost	231	\$31,000	\$7,200,000
Pond Costs	66	\$197,000	\$13,100,000
Total			\$20,300,000

20 Cities ENRCCI = 7,942 May 2007