

CLIENT: Sacheen Lake W&S District  
 PROJECT: Sewer System Upgrade  
 SUBJECT: Engineer's Estimate of Probable Cost

Prices are based on area contractor rates and include installation and material costs, 2012

**Sewer to Stimson Property - Lagoon Treatment - Winter Storage, Summer Irrigation - 450 Total Units**  
 Individual E-ONE pump stations to lagoon treatment/storage and sprinkler distribution

ITEM	DESCRIPTION	ESTIMATED QUANTITY	UNITS	UNIT PRICE	Phase I Cost	Phase II Cost
<b>Mobilization and Management</b>						
1	Mobilization	1	LS	\$ 340,000.00	\$ 340,000.00	\$ 200,000.00
2	SPCC Plan	1	LS	\$ 10,000.00	\$ 10,000.00	\$ 10,000.00
3	Stormwater & Erosion Control & Maintenance	1	LS	\$ 10,000.00	\$ 5,000.00	\$ 10,000.00
	<b>Subtotal</b>				\$ 355,000.00	\$ 220,000.00
<b>Sewer Collection and Transmission System</b>						
4	Rock Excavation	38,000	LF	\$ 15.00	\$ 570,000.00	\$ -
5	6" HDPE Pressure Main, Single Pipeline Trench	21,500	LF	\$ 25.00	\$ 537,500.00	\$ -
6	4" HDPE Pressure Main, Single Pipeline Trench	16,500	LF	\$ 20.00	\$ 330,000.00	\$ -
7	Pressure Line Cleanout Assembly (Terminal Ends of Mains)	6	EACH	\$ 2,000.00	\$ 12,000.00	\$ -
8	4" DI Gate Valve (Every 2000 feet)	9	EACH	\$ 700.00	\$ 6,300.00	\$ -
9	6" DI Gate Valve (Every 2000 feet)	11	EACH	\$ 900.00	\$ 9,900.00	\$ -
10	Road Surface Repair, Gravel	8,100	LF	\$ 6.00	\$ 48,600.00	\$ -
11	Road Surface Repair, Asphalt 2"	6,100	LF	\$ 14.00	\$ 85,400.00	\$ -
12	Air/Vacuum Release Valve	6	EACH	\$ 5,000.00	\$ 30,000.00	\$ -
13	2" Service Tap 211/200	211	EACH	\$ 250.00	\$ 52,750.00	\$ 50,000.00
	<b>Subtotal</b>				\$ 1,682,450.00	\$ 50,000.00
<b>Services</b>						
14	2" HDPE Service Line & Curb Stop - 100/125	100	EACH	\$ 1,000.00	\$ 100,000.00	\$ 125,000.00
15	E-ONE Pump Station 100/125	100	EACH	\$ 7,500.00	\$ 750,000.00	\$ 937,500.00
16	4" Gravity Service to Pump Station, 233/217	233	EACH	\$ 500.00	\$ 116,500.00	\$ 108,500.00
	<b>Subtotal</b>				\$ 966,500.00	\$ 1,171,000.00
<b>Treatment/Storage Lagoons</b>						
17	Cleaning and Grubbing	7	Acre	\$ 2,500.00	\$ 17,500.00	\$ 17,500.00
18	Excavation and Embankment (storage lagoon), 32250/20550	32,250	CY	\$ 8.00	\$ 258,000.00	\$ 164,400.00
19	Excavation and Embankment (treatment lagoon), 19250/13750	19,250	CY	\$ 8.00	\$ 154,000.00	\$ 110,000.00
20	Lagoon Double Liner 60mil, treatment and storage lagoons (installed)	330,000	SF	\$ 1.45	\$ 478,500.00	\$ 478,500.00
21	Headwork Facility - Channel, Building, Screen	1	LS	\$ 225,000.00		\$ 225,000.00
22	Concrete Distribution Boxes	2	EACH	\$ 45,000.00	\$ 90,000.00	\$ -
23	Treatment Lagoon Aerators	3	EACH	\$ 12,500.00	\$ 37,500.00	\$ 37,500.00
24	Chlorine Feed Disinfection System	1	LS	\$ 15,000.00	\$ 15,000.00	\$ -
25	Chain Link Fence 2500/1550	2500	LF	\$ 25.00	\$ 62,500.00	\$ 38,750.00
26	Yard Piping 15%	1	LS	\$ 175,000.00	\$ 175,000.00	\$ 50,000.00
27	Electrical	1	LS	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00
28	Access Road	1,000	LF	\$ 25.00	\$ 25,000.00	\$ -
	<b>Subtotal</b>				\$ 1,413,000.00	\$ 1,221,650.00
<b>Forest Irrigation System</b>						
29	24'x40' Facility Building	960	SF	\$ 125.00	\$ 120,000.00	\$ -
30	6" C900 PVC Irrigation Pipe, Underground Installation, 800/700	800	LF	\$ 25.00	\$ 20,000.00	\$ 17,500.00
31	4" C900 PVC Irrigation Pipe, Underground Installation, 13650/13650	13,650	LF	\$ 20.00	\$ 273,000.00	\$ 273,000.00
32	Nelson Sprinkler Head and Riser, 350/350	350	EACH	\$ 65.00	\$ 22,750.00	\$ 22,750.00
33	Irrigation Pump with Controls	1	LS	\$ 35,000.00	\$ 35,000.00	\$ 35,000.00
34	Chlorine Contact Piping	300	LF	\$ 115.00	\$ 34,500.00	\$ -
	<b>Subtotal</b>				\$ 505,250.00	\$ 348,250.00

Subtotal Construction		\$ 4,922,200.00	\$ 3,010,900.00
7.5% Sales Tax		\$ 369,200.00	\$ 225,800.00
10% Contingency		\$ 492,200.00	\$ 301,100.00
<b>TOTAL ESTIMATED CONSTRUCTION COST</b>		<b>\$ 5,783,600.00</b>	<b>\$ 3,537,800.00</b>
Treatment and Disposal Site Property		\$ 370,000.00	
Administration, Legal, and Interim Financing		\$ 35,000.00	35,000
Engineering 18%		\$ 974,592.00	\$ 596,160.00
<b>TOTAL ESTIMATED PROJECT COST</b>		<b>\$ 7,163,192.00</b>	<b>\$ 4,168,960.00</b>
Phase I Design number of ERU's = 250 Phase II Design number of ERU's = 200			
Phase I Total number of Lots =	422		
Phase II Total number of Lots =	200		
<b>INDIVIDUAL LOT OWNER'S SHARE OF PROJECT COST - Phase I</b>			
Total Number of Lots in Phase I =	422		
Individual Lot Owner's Share of Project Cost	Average over 422	\$ 16,970.00	
Equivalent Monthly Assessment Rate - 20 Yr Loan @ 2.0%		\$ 86.49	
<b>INDIVIDUAL LOT OWNER'S SHARE OF PROJECT COST - Phase II</b>			
Total Number of Lots in Phase II =	200		
Individual Lot Owner's Share of Project Cost	Average over 200	\$ 20,840.00	
Equivalent Monthly Assessment Rate - 20 Yr Loan @ 2.0%		\$ 106.28	