

PER TABLE 5 - REVISED MAY 9, 2012
City of Lakeport
Wastewater System Improvements Project
Recommended Project Preliminary Cost Estimate

No.	Item	Quantity	Unit	Unit Cost	Total Cost
Construction Costs					
1	Dewater Oxidation Pond No. 1	1	LS	\$5,000	\$5,000
2	Mobilize sludge removal equipment to Pond 1	1	LS	\$10,000	\$10,000
3	Remove, transport, dispose of sludge from Pond 1 ¹	525	DT	\$625	\$328,125
4	Demobilize equipment	1	LS	\$5,000	\$5,000
5	Desludge Oxidation Pond 1 Subtotal				\$348,000
6	Mobilize	1	LS	\$10,000	\$10,000
7	Directional drill 30-Inch x 0.25 wall steel casing	530	LF	\$650	\$344,500
8	16-Inch DIP restrained joint force main	530	LF	\$100	\$53,000
9	East tie-in to new force main	1	LS	\$5,000	\$5,000
10	West tie-in to new force main	1	LS	\$5,000	\$5,000
11	Test & demobilize	1	LS	\$5,000	\$5,000
12	16-Inch Force Main Subtotal				\$422,500
13	Mobilize	1	LS	\$10,000	\$10,000
14	Pipeburst (E) 8-inch to (N) 12-inch on Main St from Clear Lake to 6th St	1450	LF	\$160	\$232,000
15	Reinstall laterals to property line with two-way cleanout	30	EA	\$3,500	\$105,000
16	Replace pavement at launch pit and laterals	31	EA	\$500	\$15,500
17	Test & demobilize equipment	1	LS	\$5,000	\$5,000
18	Main Street Pipeburst Subtotal				\$367,500
19	Mobilize	1	LS	\$10,000	\$10,000
20	Excavation	1	LS	\$4,000	\$4,000
21	Install manhole base & wetwell	1	LS	\$8,000	\$8,000
22	Install rails, pump & electrical	1	LS	\$30,000	\$30,000
23	Backfill excavation	1	LS	\$3,000	\$3,000
24	Pavement replacement	1	LS	\$2,000	\$2,000
25	Connect (E) sewers & force main to new lift station	1	LS	\$3,000	\$3,000
26	Excavate, remove, dispose, backfill (E) lift station	1	LS	\$10,000	\$10,000
27	Test & demobilize	1	LS	\$4,000	\$4,000
28	Clear Lake Avenue Lift Station Subtotal				\$74,000
29	Underground Electrical at Lift Stations	9	EA	\$2,000	\$18,000
30	Above Ground Electrical at Lift Stations & misc I/O terminations	9	EA	\$3,000	\$27,000
31	Furnish and Install Lift Station RTUs	9	EA	\$15,000	\$135,000
32	Lift Station ORT	9	EA	\$3,000	\$27,000
33	Lift Station FAT	9	EA	\$2,000	\$18,000
34	Furnish and Install Control Panel/Computer Work Station at Corporation Yard	1	LS	\$100,000	\$100,000
35	Furnish and Install Control Panel/Computer Work Station at WWTP	1	LS	\$50,000	\$50,000
36	Add I/O & RTU at Recapture Ponds	4	EA	\$15,000	\$60,000
37	Add I/O & RTU at Lakeport Blvd Lift Station	1	EA	\$15,000	\$15,000
38	Add I/O & RTU at Lakeshore Blvd Lift Station	1	EA	\$15,000	\$15,000
39	Add I/O & RTU at Martin St Lift Station	1	EA	\$15,000	\$15,000
40	SCADA Programming - Process Control	1	LS	\$50,000	\$50,000
41	SCADA Programming - Reports	1	LS	\$50,000	\$50,000
42	Computer Equipment, Licenses and Software	1	LS	\$50,000	\$50,000
43	WWTP Pull Wire & Terminate	1	LS	\$10,000	\$10,000
44	SCADA Startup & Testing (ORT & FAT)	1	LS	\$25,000	\$25,000
45	Cleanup	1	LS	\$6,800	\$6,800
46	Equipment Info	1	LS	\$10,000	\$10,000
47	Sewer Pump Station & WWTP SCADA System Subtotal				\$681,800
48	Subtotal Construction Cost				\$1,894,000
49	Construction Contingency @ 20%				\$378,800
50	Inflation Adder for Construction in 2013-2014 @ 2.5% per year				\$115,100
51	TOTAL CONSTRUCTION COSTS				\$2,388,000
Indirect Costs					
52	Design Field Survey @ 5 Days				\$13,660
53	Design				\$241,000
54	Bidding/Contract Award Services				\$20,000
55	Construction Phase Services				\$223,000
56	Post-Construction Services				\$0
57	As-Built (Record) Drawings				\$5,000
58	SubTotal Basic Services				\$503,000
59	Resident Project Representative 2				\$94,600
60	Additional Engineering Services				
61	Geotechnical Services				\$0
62	Construction Phase Surveying				\$10,928
63	Easement Acquisition/ROW's				\$10,000
64	Operation & Maintenance Manuals Supplied by Contractor				\$0
65	Assistance w/ Certificates of Participation Funding				\$0
66	Environmental Documentation Assistance				\$0
67	Assistance with Permits				\$5,000
68	SubTotal Engineering Fee				\$623,528
69	Engineering Fee Contingency @ 10%				\$62,353
70	Engineering Fee Total				\$685,900
Other Indirect Costs					
71	Administration and Legal				\$125,000
72	ROW & Easements Permits				\$10,000
73	Environmental Documentation				
74	Additional Cash Flow Needs for Interim Financing Through Bidding @ 5% for 1 Year				
75	Bond Counsel for Certificates of Participation (COP) Loan Security				
76	Other Indirect Costs Total				\$135,000
77	TOTAL INDIRECT COSTS				\$820,900
TOTAL PROJECT COST					\$3,209,000
Notes:					
1. Sludge quantity is based upon estimate provided by Synagro.					
2. Construction observation includes 85 days with per diem.					