

## **EXHIBIT A**

## **Lake County Special Districts**

## Replacement of Four Redwood Water Tanks in Soda Bay CSA-20

## Phase 1 - Design Bid Lump-Sum Cost

July 23, 2018

	20.7									
WORK TASK	PACE ENGINEERING									
	T. Warnock	R. Bowser	T. Jones	J. Brunemeier	T. Bowser	J. Lenaker	Two-Man	Drafting	Office Staff	Category Subtotal
	Project Manager	Project Engineer	Senior Engineer	Structural Engineer	Electrical Engineer		PW Survey Team			
Task 1 - Prepare Preliminary Design Report & Survey										
a. Manage PACE staff	1.00		***************************************					***************************************	1.00	\$2,072
b. Obtain and review Record Drawings for four tank sites		0.50								\$712
c. Coordinate geotechnical investigation of four tank sites		1.00								\$1,424
d. Survey four existing tank locations						1.00	4.00			\$13,136
e. Produce topographic maps of four existing tank sites		1.00	2.00							\$4,272
f. Determine seismic requirements for each tank site				1.00						\$1,544
g. Site visit to review topographic map and determine temporary tank locations and misc.		1.00								\$1,424
h. Determine temporary and permanent piping plans at each site		2.00								\$2,848
i. Determine electrical requirements		0.50			1.00					\$2,136
j. Identify utility conflicts		0.50								\$712
k. Review geotechnical report of each tank site	0.25	0.25		0.25						\$1,128
I. Develop cost alternatives for each tank site	0.50	1.00								\$2,196
m. Develop alternatives analysis	0.50	1.00								\$2,196
n. Estimate construction schedule	0.25	0.25								\$742
o. Prepare draft Preliminary Design Report and issue electronic copy to team for review	1.00	2.00							1.00	\$4,920
p. Receive and incorporate comments on draft Preliminary Design Report		0.50	0.50	0.50	0.50					\$2,908
q. Issue copies of final Preliminary Design Report			0.50						0.50	\$976
Subtota	3.50	11.50	3.00	1.75	1.50	1.00	4.00	0.00	2.50	\$45,346
Task 2 - Prepare Contract Documents										
a. Prepare construction contract documents (90% plans and specifications)	5.00	20.00	5.00	10.00	4.00	1.00		10.00	2.00	\$76,520
b. Issue 90% contract documents to District & SWRCB DDW for review		0.50							1.00	\$1,240
c. Receive and incorporate 90% comments from District & DDW	1.00	2.00							0.50	\$4,656
Subtota	<del></del>	22.50	5.00	10.00	4.00	1.00	0.00	10.00	3.50	\$82,416
Task 3 - Services During Bidding		1 22:00	3.00	1 20.00	1					Ψ02)*11°
a. Distribute contract documents to three preselected contractors for bidding	1.00	1.00	<u> </u>	<u> </u>	I				1.00	\$3,496
	1.00	3.00		2.00	1.00				1.00	\$8,784
	100	3.00		2.00	1.00					
c. Review bids received and make recommendation to District	1.00	1.00	0.00		4.00		0.00	0.00	1.00	\$1,544
Subtota	2.00	4.00	0.00	2.00	1.00	0.00	0.00	0.00	1.00	\$13,824
TOTAL PERSON-DAYS	11.50	38.00	8.00	13.75	6.50	2.00	4.00	10.00	7.00	· · · · · · · · · · · · · · · · · · ·
LABOR \$/DAY	\$1,544	·						\$968		
LABOR COST PER CLASSIFICATION	\$17,756							\$9,680		
TOTAL PLACE ENGINEERING LADOR COSTS	1 71//30	774,114	1 711772	1 721,230	1 7,2,00	<u> </u>	1 211,000	72,000	, ,,,,,,,,	Ć1/11 F0/

TOTAL PACE ENGINEERING LABOR COSTS KC ENGINEERING GEOTECHNICAL REPORT

SUBCONSULTANT MARKUP

TOTAL ENGINEERING SERVICES COST ESTIMATE

\$141,586 \$17,656

\$1,766

\$161,000