

TRACY LAKE GROUNDWATER RECHARGE PROJECT COMPARISON OF CAPITAL COSTS

18-Dec-13	GRANT APPLICATION			LANDOWNER AGREEMENT		AMENDED CONTRACT WITH RBI/SYCAMORE	
	USBR FUNDING	RECIPIENT FUNDING	TOTAL COST	RECIPIENT FUNDING	TOTAL COST	RECIPIENT FUNDING	TOTAL COST
<b>1. PROJECT MANAGEMENT</b>							
Project Manager & on-site inspection				\$30,200	\$30,200	\$30,200	\$30,200
<b>2. FRINGE BENEFITS</b>							
Full-time employees	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
Part-time employees	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)	(N/A)
<b>3. TRAVEL</b>							
Mileage Contractor	\$0	\$1,130.00	\$1,130	\$1,050.00	\$1,050.00	\$1,050.00	\$1,050.00
Mileage District	\$0			\$1,000.00	\$1,000.00	\$1,000.00	\$1,000.00
<b>Subtotal</b>	<b>\$0.00</b>	<b>\$1,130.00</b>	<b>\$1,130.00</b>	<b>\$2,050.00</b>	<b>\$2,050.00</b>	<b>\$2,050.00</b>	<b>\$2,050.00</b>
<b>4. EQUIPMENT</b>							
A: C144-41 screen unit (12-foot diameter cone screen) with Type 304 stainless steel #69 wedgewire with 0.068" openings (50% open area), support frame, and hydraulic operated brush cleaning system.	\$38,800	\$38,800	\$77,600	\$38,800	\$77,600		
B: Cone Screen Base unit. Includes steel base with clamped pile supports and culvert outlet. Outlet pipe to be 42-inch diameter, 12 ga. Galvanized CMP, extending about 24 feet beyond base edge.	\$7,700	\$9,700	\$17,400	\$9,700	\$17,400		
C: Fish Screen Control Panel and Hydraulic Power Unit.	\$3,100	\$6,100	\$9,200	\$6,100	\$9,200		
D: Pumping Unit including: Pumps, Motor Control & Motors	\$23,750	\$63,750	\$87,500	\$63,750	\$87,500		
E: Monitoring well equipment, including a water level sensor and data logger	\$5,000	\$0	\$5,000	\$0	\$5,000		
F: Water level sensors in Tracey Lake	\$0	\$1,400	\$1,400	\$1,400	\$1,400		
<b>Subtotal</b>	<b>\$78,350</b>	<b>\$119,750</b>	<b>\$198,100</b>	<b>\$119,750</b>	<b>\$198,100</b>	<b>\$706,852</b>	<b>\$785,202</b>
<b>5. SUPPLIES/MATERIALS</b>							
Office supplies	\$0	\$100	\$100	\$100	\$100		
6" Schedule 80 steel pilings 20 feet long	\$0	\$3,000	\$3,000	\$3,000	\$3,000		
Sheet Pile River, Excavate, Fish Screen Installation/Construction & Piping (including CMP wet well)	\$52,400	\$72,400	\$124,800	\$72,400	\$124,800		
Pumping Unit Platform	\$10,250	\$10,250	\$20,500	\$10,250	\$20,500		
Conveyance system including 1,200 ft of pipe and pressure relief valves.	\$40,000	\$0	\$40,000	\$0	\$40,000		
Backhoe rental	\$0	\$500	\$500	\$500	\$500		
Particle Size Distribution lab test	\$0	\$1,000	\$1,000	\$1,000	\$1,000		
Borehole drilling	\$0	\$3,000	\$3,000	\$3,000	\$3,000		
Tracey Lake Preparation	\$8,000	\$13,000	\$21,000	\$13,000	\$21,000		
Monitoring	\$5,000	\$6,000	\$11,000	\$6,000	\$11,000		
Water Quality Analysis	\$0	\$1,500	\$1,500	\$1,500	\$1,500		
Power Connection	\$20,000	\$40,000	\$60,000	\$40,000	\$60,000		
<b>Subtotal</b>	<b>\$135,650</b>	<b>\$150,750</b>	<b>\$286,400</b>	<b>\$150,750</b>	<b>\$286,400</b>	<b>\$242,240</b>	<b>\$377,890</b>
<b>6. CONTRACTUAL/ CONSTRUCTION</b>							
Contractor Principal Engineer	\$4,560	\$11,430	\$15,990	\$9,790	\$14,350		
Contractor Senior Engineer	\$15,800	\$28,040	\$43,840	\$25,800	\$41,600		
Contractor Project Engineer	\$10,000	\$17,560	\$27,560	\$16,000	\$26,000		
Contractor Staff Engineer	\$3,240	\$3,720	\$6,960	\$3,240	\$6,480		
Surveyor	\$3,400	\$3,800	\$7,200	\$3,800	\$7,200		
Backhoe Operator	\$0	\$500	\$500	\$500	\$500		
Contractor Hydrogeologist	\$3,000	\$3,000	\$6,000	\$3,000	\$6,000		
Pumping Unit and Platform Installation/Construction	\$6,000	\$6,000	\$12,000	\$6,000	\$12,000		

Project Management	\$0	\$40,000	\$40,000	\$0	\$0		
Conveyance system Installation/Construction	\$0	\$40,000	\$40,000	\$40,000	\$40,000		
Monitoring Well Drilling and Construction	\$0	\$20,000	\$20,000	\$20,000	\$20,000		
<b>Subtotal</b>	<b>\$46,000</b>	<b>\$174,050</b>	<b>\$220,050</b>	<b>\$128,130</b>	<b>\$174,130</b>	\$86,640	\$132,640
<b>7. ENVIRONMENTAL and REGULATORY COMPLIANCE COSTS</b>							
ENVIRONMENTAL AND REGULATORY COMPLIANCE				\$70,000	\$70,000	\$90,829	\$90,829
RBI CEQA/permitting	\$28,000	\$56,000	\$84,000	\$0	\$28,000	\$0	\$28,000
USBR admin/NEPA charges	\$10,000	\$0	\$10,000	\$0	\$10,000	\$0	\$10,000
SWRCB - filing fees; CDFG Review Fees	\$2,000	\$6,600	\$8,600	\$0	\$2,000	\$0	\$2,000
Legal fees - Adding new point of diversion (SWRCB)	\$0	\$23,300	\$23,300	\$0	\$0	\$0	\$0
SJ Habitat Conservation Plan Mitigation Fee						\$20,000	\$20,000
<b>Subtotal</b>	<b>\$40,000</b>	<b>\$85,900</b>	<b>\$125,900</b>	<b>\$70,000</b>	<b>\$110,000</b>	<b>\$110,829</b>	<b>\$150,829</b>
<b>8. OTHER</b>							
District Legal - thru Improvement District formation Lake Lease	\$0	\$20,000	\$20,000	\$25,000	\$25,000	\$25,000	\$25,000
District Legal - Post-Imp. Dist. Formation	\$0	\$0	\$0	\$10,000	\$10,000	\$10,000	\$10,000
Reporting	\$0	\$3,120	\$3,120	\$3,120	\$3,120	\$3,120	\$3,120
Project Contingency	\$0	\$0	\$0	\$97,100	\$97,100	\$97,100	\$97,100
<b>Subtotal</b>	<b>\$0</b>	<b>\$23,120</b>	<b>\$23,120</b>	<b>\$135,220</b>	<b>\$135,220</b>	<b>\$135,220</b>	<b>\$135,220</b>
<b>TOTAL DIRECT COSTS</b>	<b>\$300,000</b>	<b>\$554,700</b>	<b>\$854,700</b>	<b>\$636,100</b>	<b>\$936,100</b>	<b>\$1,314,031</b>	<b>\$1,614,031</b>