

TRACY LAKE ALLOCATION of O&M COSTS

Diversion level 12ft based on quarry operation
24-Feb-16

Lake Operating Range 12.0 to 14+ ft	
Average Area Acres @ 12 f	59
Evaporation Rate Ft/Ac	3.64
Assumed Perc Rate Ft/Ac	9.5

Water supplied for Irrigation	2,275
Acre-feet to reach Diversion Elevation	107
Acre-feet of evaporation	214.76
Acre-feet of percolation	560.5
Total Water Diverted Acre-feet	3,157

Acre-feet Allocated to Tracy Lake Improvement District

Ac-Ft used plus half of Diversion	2328.5
Ratio to total Diversion minus evaporation	79%
Ratio to evaporation for TLID share	169.95
Total Ac-Ft used plus evap and diversion	2498.45

Estimated True Up 10.d.

Annual O&M TLID

Annual	\$50,910.31
Per Acre	\$ 38.83

Acre-feet Allocated to NSJWCD for O&M Cost Allocation

Acre-feet allocated to NSJWCD	658.81
Percentage of Total Water Diverted	21%

Annual O&M NSJWCD

Annual	\$13,424.49
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Estimated O&M Expenses

Irrigation Season April to October per Agreement 4b

EBMUD Water Charge	\$ 6,314.52
NSJWCD Administrative Support Charge	\$ 4,550.00
Liability Insurance	\$1,100
Property Insurance	\$550
Labor Cost \$70/hr 4 hrs per weekly visit during irrigation season (6 months), once monthly during non-irrigation season.	\$ 8,400.00
Pump Maintenance (oil, etc.)	\$1,500
Compliance Costs (Data Collection/eval)	\$ 7,500.00
PG&E Power and Customer Costs	\$ 31,356.72
Subtotal	\$ 61,271.24
5% Contingency	\$ 3,063.56
Total Costs	\$ 64,334.80

Agreement 10b 65%/35%

TLID

65% share	\$41,817.62
Per Acre	\$ 31.90
Annual	\$41,814.20

NSJWCD

Annual	\$22,517.18
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Horsepower/KWH Required for average wet year condition

Average PS Wet Well water level, in feet	-23
Discharge Elevation at PS Standpipe	2
Total lift, feet	25
Flow in cubic feet per second	20
KW	66.74

PG&E AG-4B Ag Rate (Jan 2016)

Hours of operation per year	2016 Max	Max Peak	Energy-MP	Energy-Mx	Cust Serv	Sub-total
Hours during Summer, May to October	1680	\$1,749.66	\$ 3,314.43	\$ 6,722.38	\$16,287.05	\$172.85 \$28,246.37
Hours during Winter, November to April	336	\$ 153.40		\$ 1,084.59	\$ 1,694.72	\$177.65 \$ 3,110.35

Total PG&E **\$31,356.72** \$.2331/KW

Notes:

1. It is assumed that the Diversion PS will be operated one week on and one week off to allow for fill and draw operation of the Lake with a diversion rate of approximately 20 cfs. Currently this appears to be the only viable way to operate until such time as percolation and other demands on the Lake are quantified and the diversion can be more closely regulated.
2. Maximum water level in the lake may be above 12 feet, depending upon diversion rates out of the lake.
3. Irrigation Season is assumed to be April to September.
4. The NSJWCD Water Rate is per the agreement and 218 Report.
5. Rounding revises the Annual cost for TLID downward by \$3.41