

Lake Elsinore In-Lake Nutrient Reduction Alternatives Analysis

Presentation to the TMDL Task Force

November 12, 2024

Presentation by Steve Wolosoff, GEI Consultants



Evaluation Criteria Weights

- Cost (30%)
 - Capital, annual O&M, 25-yr lifecycle
- Reliability (20%)
 - Certainty in projected load estimate
 - Site specific data versus literature values
 - Temporal variability
- Ease of Construction & O&M(10%)
 - Submerged versus dry facilities
 - Future materials availability
 - Energy demand



Evaluation Criteria Weights

- Regulatory Compliance / Environmental Impacts (25%)
 - Range of issues raised with CEQA
 - Entrainment of biota in pumped flows
 - Competing uses for wetland mitigation
- Other Constraints (10%)
 - Recreational boating
 - Stakeholder Acceptance
- Other Benefits: 5%
 - Environmental education
 - Nature based solution
 - Carbon sequestration



Evaluation Criteria Weights

- Multi-Criteria Weighted Score (1-Least Preferred to 5–Most Preferred)
- For each alternative, a weighted total score is computed

Example Calculation of Multi-Factor Weighted Scores for Project Alternatives

Weights	30%	20%	10%	25%	10%	5%	Multi-Criteria Weighted Score
Criteria	Cost	Reliability	Ease of Construction and O&M	Regulatory / Environmental Impacts	Social, Political, Recreation	Other Benefits	
Alternative A	4	3	1	3	5	2	3.25
Alternative B	2	1	5	4	4	5	2.95



Project Status

- Project engineering concepts and cost estimates completed
- Evaluation of nutrient load reduction completed
- Condition assessment – EVMWD comments on draft document being addressed
- Evaluation criteria – Tech memo provided to stakeholders 10/14 – no written comments received – comments noted from 11/12 TF meeting
- Draft report of study underway – to be provided to EVMWD in November
- Present draft report during December 2024 TMDL Task Force
- Final report following comments from LEAMS operators in February 2025

