



Bear Valley Water District 2021 Wastewater Rate and Capacity Fee Study Preliminary Information Needs List

The following is a list of preliminary information materials needed to develop the rate and capacity fee study.

Documents Needed:

- 1) Financial Information
 - a) FY 2021-22 budget
 - b) Historical financial results in detailed (line-item level) budget format for past 3 years (in excel, if available)
 - c) Breakdown of fund reserve balances as of June 30, 2021.
 - d) Outstanding debt obligations and debt service schedules (if any)
 - e) Any other financial information or projections that would be helpful

- 2) Customer & Usage Information
 - a) Accounts and billed water use by customer class (in excel if possible)
 - b) New connections by customer class for past 3 years
 - c) Historical and projected growth & any anticipated changes in the City's customer base
 - d) Any projected new development
 - e) New connections and revenues collected for sewer capacity charges for past few years (longer term history of new connections if easily available)

- 3) Capital Improvements
 - a) History of capital expenditures for past 3 years
 - b) Latest Capital Improvement Program (CIP) – 5-year projection, 10-year projection if possible
 - c) Any other information on future capital needs, including long-term placeholder estimates

- 4) Other Information
 - a) Contacts for project team members
 - b) Any other relevant information we should be aware of



Bear Valley Water District Wastewater Cost of Service Rate Study 2022

Draft Calculation Tables

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BARTLE WELLS ASSOCIATES
INDEPENDENT PUBLIC FINANCE ADVISORS

Table 1: Current Monthly Wastewater Rates
Bear Valley Water District
Wastewater Cost of Service Rate Study 2022

Current Monthly Wastewater Rates

Residential Rates

Single Family, Multi Family	\$96.35 per month
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Non-Residential Rates

Retail/Commercial/Restaurant/Hotel/Resort	\$0.068 per gallon
	\$85.81 minimum charge

Table 2: Current & Projected Wastewater Rate Revenue
Bear Valley Water District
Wastewater Cost of Service Rate Study 2022

Current & Projected Revenues

Projection Year Fiscal Year	Budget 2021-22	% Annual Escalation	1 2022-23 post-covid	2 2023-24	3 2024-25	4 2025-26	5 2026-27	Notes
OPERATING REVENUES								
Residential	\$630,000	0.0%	\$630,000	\$630,000	\$630,000	\$630,000	\$630,000	calculated in cash flow
Commercial	\$151,000	0.0%	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	calculated in cash flow
Revenue Total:	\$781,000		\$780,000	\$780,000	\$780,000	\$780,000	\$780,000	
ALL OTHER REVENUES								
Interest Income - LAIF	\$1,500	0.0%	\$1,000	\$1,000	\$1,000	\$1,000	\$1,000	
Late Fees, Penalties & Interest	\$2,500	0.0%	\$2,500	\$2,500	\$2,500	\$2,500	\$2,500	
Expense Reimbursements - USFS	\$4,805	0.0%	\$4,805	\$4,805	\$4,805	\$4,805	\$4,805	
Expense Reimbursements - Concessionnairr	\$3,830	0.0%	\$3,830	\$3,830	\$3,830	\$3,830	\$3,830	
Misc Other Income	\$5,200	0.0%	\$5,200	\$5,200	\$5,200	\$5,200	\$5,200	
Revenue Total:	\$17,835		\$17,335	\$17,335	\$17,335	\$17,335	\$17,335	
TOTAL ALL REVENUES	\$798,835		\$797,335	\$797,335	\$797,335	\$797,335	\$797,335	
Revenues by Category								
Residential Rate Revenues	\$630,000	0.0%	\$630,000	\$630,000	\$630,000	\$630,000	\$630,000	calculated in cash flow
Commercial Rate Revenues	\$151,000	0.0%	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000	calculated in cash flow
Interest Income	\$1,500	TBD						1% beginning fund balance
Other Operating Revenues	\$16,335	0.0%	\$16,335	\$16,335	\$16,335	\$16,335	\$16,335	
TOTAL ALL REVENUES	\$798,835		\$796,335	\$796,335	\$796,335	\$796,335	\$796,335	

Table 3: Current & Projected Operating Expenditures
 Bear Valley Water District
 Wastewater Cost of Service Rate Study 2022

Current and Projected Operating Expenditures

Projection Year Fiscal Year	Actual 2020-21	Budget 2021-22	Annual Escalation*	1 2022-23	2 2023-24	3 2024-25	4 2025-26	5 2026-27
OPERATIONS & MAINTENANCE								
Salaries and Benefits*	\$378,211	\$395,022	5%	\$414,774	\$435,512	\$500,000	\$525,000	\$551,250
Director Expenses - Meetings, Elections, Training	\$2,000	\$2,000	3%	\$2,060	\$2,122	\$2,185	\$2,251	\$2,319
Operator Education, Training & Certifications	\$450	\$1,000	3%	\$1,030	\$1,061	\$1,093	\$1,126	\$1,159
Gas, Diesel, Oil & Filters	\$2,694	\$3,000	3%	\$3,090	\$3,183	\$3,278	\$3,377	\$3,478
Insurance	\$16,294	\$18,000	3%	\$18,540	\$19,096	\$19,669	\$20,259	\$20,867
Memberships & Conferences	\$5,241	\$5,500	3%	\$5,665	\$5,835	\$6,010	\$6,190	\$6,376
Office Expenses & Supplies	\$9,216	\$7,500	3%	\$7,725	\$7,957	\$8,195	\$8,441	\$8,695
Field Expenses & Supplies	\$19,353	\$20,000	3%	\$20,600	\$21,218	\$21,855	\$22,510	\$23,185
Grooming, Snow Removal & Vehicle Storage	\$3,268	\$3,500	3%	\$3,605	\$3,713	\$3,825	\$3,939	\$4,057
General Engineering & Consulting	\$9,621	\$5,000	3%	\$5,150	\$5,305	\$5,464	\$5,628	\$5,796
General Legal & Accounting	\$9,780	\$10,000	3%	\$10,300	\$10,609	\$10,927	\$11,255	\$11,593
Equipment Rental	\$778	\$800	3%	\$824	\$849	\$874	\$900	\$927
Repairs & Maintenance	\$46,610	\$60,000	3%	\$61,800	\$63,654	\$65,564	\$67,531	\$69,556
Laboratory Fees	\$13,439	\$12,000	3%	\$12,360	\$12,731	\$13,113	\$13,506	\$13,911
Regulatory Reporting & Compliance Projects	\$6,242	\$6,500	3%	\$6,695	\$6,896	\$7,103	\$7,316	\$7,535
Taxes, Fees, Licenses & Assessments	\$42,985	\$45,000	3%	\$46,350	\$47,741	\$49,173	\$50,648	\$52,167
Utilities	\$51,386	\$55,000	3%	\$56,650	\$58,350	\$60,100	\$61,903	\$63,760
TOTAL ALL OPERATING EXPENDITURES	\$617,568	\$649,822		\$677,218	\$705,830	\$778,427	\$811,780	\$846,633

*Salary and Benefit placeholder estimate adjusted to ensure coverage for full time staffing of general manager and chief plant operator (40 hr/week, add'l \$40K) plus additional full time plant operator. (\$65K)
 BWA proposed funding \$500k (rounded) in year 3 of rate study

Table 4: 5-Year Capital Improvement Plan
Bear Valley Water District
Wastewater Cost of Service Rate Study 2022

5-Year Capital Improvement Plan

Projection	0	1	2	3	4	5		CIP Plan
Fiscal Year	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27	Unassigned	Total
Capital Improvement Plan (CIP) - Cash Funded								
Collections								
Main Pump Station	\$33,000						\$17,000	\$50,000
LABR Pump Station		\$60,000					\$75,000	\$135,000
Upgrade AC Pipe > SDR-26							\$250,000	\$250,000
Upgrade SSMP Surge Capacity Pipe							\$100,000	\$100,000
Push Cam / Crawler Camera	\$12,000							\$12,000
Treatment								
EH Building ImprovementsCover							\$50,000	\$50,000
Stairs to Treatment Pond							\$30,000	\$30,000
Pole Mount Solar - Treatment Plant							\$100,000	\$100,000
Disposal & Capacity								
Surface Water Discharge Sytem							\$25,000	\$25,000
Irrigation Pumps							\$6,000	\$6,000
Land Disposal Discharge System - 78 pc 3" x 30'							\$10,000	\$10,000
Land Application Flow Meter Telemetry							\$15,000	\$15,000
Safety								
Altair 5x Portable Multi Gas Detector (x2)							\$3,500	\$3,500
Admin								
GIS Mapping & Asset Management (AMS)							\$10,000	\$10,000
RE-Asphalt Parking Lot							\$90,000	\$90,000
Vehicles								
New Truck			\$75,000					\$75,000
New Snowmobile		\$20,000		\$75,000				\$95,000
New Vehiclw Storage Building							\$250,000	\$250,000
Intangible Assets - Regulatory Compliance, Permits								
Rate Study - Every 5 Years						\$25,000		\$25,000
USFS Permit Renewal Cost Recovery - NEPA & Env Review							\$7,500	\$7,500
NPDES Permit Renewal & Project Mgt	\$12,000				\$25,000		\$25,000	\$62,000
Priority Pollutant Testing - 2nd Year in the Permit Term			\$10,000				\$10,000	\$20,000
Salinity Evaluation and Minimization Plan, Progress Report							\$4,000	\$4,000
SSMP - New WDR							\$25,000	\$25,000
Total CIP Projects	\$57,000	\$80,000	\$85,000	\$75,000	\$25,000	\$25,000	\$1,103,000	\$1,450,000
Full Funding, Smoothed CIP	\$57,000	\$270,000	\$270,000	\$270,000	\$270,000	\$270,000		\$1,407,000
BWA Proposed - Reduced CIP	\$57,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000		\$807,000
Minimal CIP	\$57,000	\$80,000	\$85,000	\$75,000	\$25,000	\$25,000		\$347,000

Table 5: Current Debt Service
Bear Valley Water District
Wastewater Cost of Service Rate Study 2022

Current & Proposed Debt Service

Projection Fiscal Year	0 2021-22	1 2022-23	2 2023-24	3 2024-25	4 2025-26	5 2026-27
Current Debt Service						
2013 Loan, Payoff in Year 5 ¹	\$56,337	\$56,337	\$56,337	\$56,337	\$56,337	\$112,674
Payoff in Year 0	\$394,359					
BWA Proposed CIP Financing						
		\$0	\$0	\$0	\$0	\$0
Issuance Amount	\$0					
Interest Rate	3.00%					
Term (Years)	15					
Coverage Requirement ²	1.1					
Total Current and Proposed Debt Service	\$56,337	\$56,337	\$56,337	\$56,337	\$56,337	\$112,674

Notes

1 Double payment to pay off loan one year early in 2026-27

2 Debt Service Coverage Requirement = Net Operating Revenues at least 110% of annual payments

Table 6: Current Fund Balance
Bear Valley Water District
Wastewater Cost of Service Rate Study 2022

Beginning Fund Balance and Minimum Reserves

Current Wastewater Reserve Fund Balance	8/31/2021
O&M Reserve Fund	\$150,000
CIP Reserve Fund	\$425,000
Total Unrestricted Cash Fund Balance	\$575,000

BWA Recommended Minimum Reserve Fund Balance						
Projection Year	0	1	2	3	4	5
Fiscal Year	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27
6 Months Annual O&M Expenditures	\$324,911	\$334,659	\$344,698	\$355,039	\$365,690	\$376,661
3% Current Asset Value ¹	\$98,024	\$100,965	\$103,994	\$107,114	\$110,327	\$113,637
Total Minimum Reserve Fund Balance	\$422,935	\$435,623	\$448,692	\$462,153	\$476,017	\$490,298

* includes proposed debt service

Notes

1 Annual replacement cost estimated using 3% wastewater system asset value from Balance Sheet 8/31/2021
 \$3,267,468

Table 8A: 5-Year Cash Flow Projection (full funding)
Bear Valley Water District
Wastewater Cost of Service Rate Study 2022

5-Year Cash Flow Projection: Full Funding

Projection	0	1	2	3	4	5
Fiscal Year	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27
Adoption Date	1/1/22	7/1/22	7/1/23	7/1/24	7/1/25	7/1/26
Months Effective	6	12	12	12	12	12
Proposed Rate Revenue Increase	0.0%	10.0%	10.0%	10.0%	10.0%	10.0%
<i>Growth</i>	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Single Family Residential Charge	\$96.35	\$105.99	\$116.58	\$128.24	\$141.07	\$155.17
Beginning Cash Fund Balance	\$575,000	\$610,676	\$483,557	\$413,736	\$365,818	\$388,499
REVENUE						
Operating Revenue						
Residential Rate Revenue	\$630,000	\$693,000	\$762,300	\$838,530	\$922,383	\$1,014,621
Commercial Rate Revenue	\$151,000	\$166,100	\$182,710	\$200,981	\$221,079	\$243,187
All Other Operating Revenue	\$17,835	\$17,335	\$17,335	\$17,335	\$17,335	\$17,335
Total Operating Revenue	\$798,835	\$876,435	\$962,345	\$1,056,846	\$1,160,797	\$1,275,144
Total Revenue	\$798,835	\$876,435	\$962,345	\$1,056,846	\$1,160,797	\$1,275,144
EXPENDITURES						
Operating Expenses						
Total Personnel Costs (Full Staffing)	\$395,022	\$414,774	\$435,512	\$500,000	\$525,000	\$551,250
Other O&M	\$254,800	\$262,444	\$270,317	\$278,427	\$286,780	\$295,383
Total Operating Expenses	\$649,822	\$677,218	\$705,830	\$778,427	\$811,780	\$846,633
Non-Operating Expenses						
Total CIP (Smoothed)	\$57,000	\$270,000	\$270,000	\$270,000	\$270,000	\$270,000
Debt Service	\$56,337	\$56,337	\$56,337	\$56,337	\$56,337	\$56,337
Total Non-Operating Expenditures	\$113,337	\$326,337	\$326,337	\$326,337	\$326,337	\$326,337
Total Expenditures	\$763,159	\$1,003,555	\$1,032,167	\$1,104,764	\$1,138,117	\$1,172,970
Net Revenue	\$35,676	(\$127,119)	(\$69,821)	(\$47,917)	\$22,681	\$102,174
<i>Debt Service Coverage (1.1x)</i>	2.6	3.5	4.6	4.9	6.2	7.6
Ending Fund Balance	\$610,676	\$483,557	\$413,736	\$365,818	\$388,499	\$490,673
<i>Fund Balance Target</i>	<i>\$422,935</i>	<i>\$435,623</i>	<i>\$448,692</i>	<i>\$462,153</i>	<i>\$476,017</i>	<i>\$490,298</i>

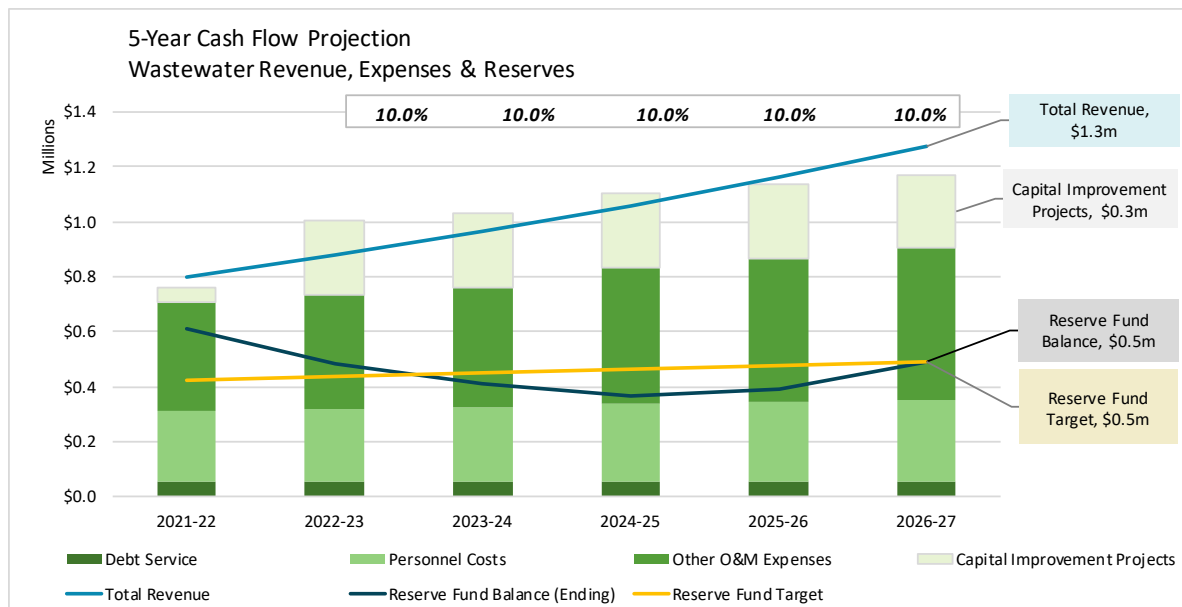


Table 8B: 5-Year Cash Flow Projection (BWA Proposed, Reduced CIP)
 Bear Valley Water District
 Wastewater Cost of Service Rate Study 2022

5-Year Cash Flow Projection (BWA Proposed, Reduced CIP)

Projection	0	1	2	3	4	5
Fiscal Year	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27
Adoption Date	1/1/22	7/1/22	7/1/23	7/1/24	7/1/25	7/1/26
Months Effective	6	12	12	12	12	12
Proposed Rate Revenue Increase	0.0%	6.0%	6.0%	6.0%	6.0%	6.0%
Growth	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Single Family Residential Charge	\$96.35	\$102.13	\$108.26	\$114.75	\$121.64	\$128.94
Beginning Cash Fund Balance	\$575,000	\$610,676	\$572,317	\$555,017	\$517,772	\$502,986
REVENUE						
Operating Revenue						
Residential Rate Revenue	\$630,000	\$667,800	\$707,868	\$750,340	\$795,360	\$843,082
Commercial Rate Revenue	\$151,000	\$160,060	\$169,664	\$179,843	\$190,634	\$202,072
All Other Operating Revenue	\$17,835	\$17,335	\$17,335	\$17,335	\$17,335	\$17,335
Total Operating Revenue	\$798,835	\$845,195	\$894,867	\$947,519	\$1,003,330	\$1,062,490
Total Revenue	\$798,835	\$845,195	\$894,867	\$947,519	\$1,003,330	\$1,062,490
EXPENDITURES						
Operating Expenses						
Total Personnel Costs (Ramp-Up)	\$395,022	\$414,774	\$435,512	\$500,000	\$515,000	\$530,450
Other O&M	\$254,800	\$262,444	\$270,317	\$278,427	\$296,780	\$316,183
Total Operating Expenses	\$649,822	\$677,218	\$705,830	\$778,427	\$811,780	\$846,633
Non-Operating Expenses						
Total CIP (Reduced)	\$57,000	\$150,000	\$150,000	\$150,000	\$150,000	\$150,000
Debt Service (Payoff in Year 5)	\$56,337	\$56,337	\$56,337	\$56,337	\$56,337	\$112,674
Total Non-Operating Expenditures	\$113,337	\$206,337	\$206,337	\$206,337	\$206,337	\$262,674
Total Expenditures	\$763,159	\$883,555	\$912,167	\$984,764	\$1,018,117	\$1,109,307
Net Revenue	\$35,676	(\$38,359)	(\$17,300)	(\$37,245)	(\$14,787)	(\$46,817)
Debt Service Coverage (1.1x)	2.6	3.0	3.4	3.0	3.4	1.9
Ending Fund Balance	\$610,676	\$572,317	\$555,017	\$517,772	\$502,986	\$456,168
Fund Balance Target	\$422,935	\$435,623	\$448,692	\$462,153	\$476,017	\$490,298

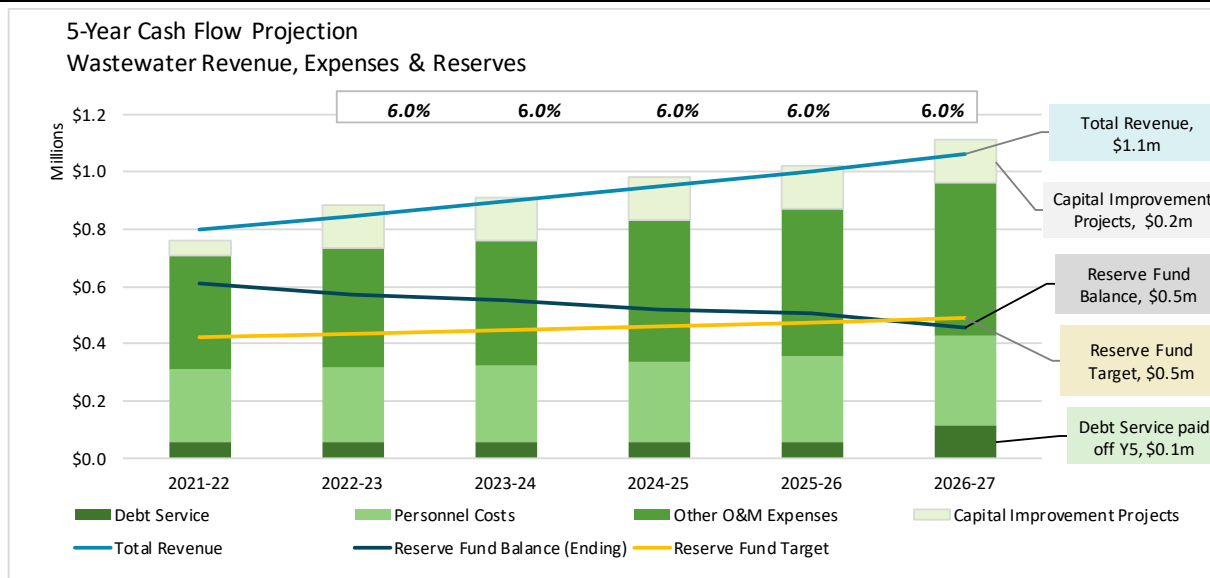


Table 8C: 5-Year Cash Flow Projection (minimal CIP)
 Bear Valley Water District
 Wastewater Cost of Service Rate Study 2022

5-Year Cash Flow Projection (minimal CIP)

Projection	0	1	2	3	4	5
Fiscal Year	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27
Adoption Date	1/1/22	7/1/22	7/1/23	7/1/24	7/1/25	7/1/26
Months Effective	6	12	12	12	12	12
Proposed Rate Revenue Increase	3.0%	3.0%	3.0%	3.0%	3.0%	3.0%
Growth	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Single Family Residential Charge	\$96.35	\$99.24	\$102.22	\$105.28	\$108.44	\$111.70
Beginning Cash Fund Balance	\$575,000	\$272,654	\$337,202	\$392,271	\$409,599	\$469,177
REVENUE						
Operating Revenue						
Residential Rate Revenue	\$630,000	\$648,900	\$668,367	\$688,418	\$709,071	\$730,343
Commercial Rate Revenue	\$151,000	\$155,530	\$160,196	\$165,002	\$169,952	\$175,050
All Other Operating Revenue	\$17,835	\$17,335	\$17,335	\$17,335	\$17,335	\$17,335
Total Operating Revenue	\$798,835	\$821,765	\$845,898	\$870,755	\$896,358	\$922,728
Total Revenue	\$798,835	\$821,765	\$845,898	\$870,755	\$896,358	\$922,728
EXPENDITURES						
Operating Expenses						
Total Personnel Costs	\$395,022	\$414,774	\$435,512	\$500,000	\$525,000	\$551,250
Other O&M	\$254,800	\$262,444	\$270,317	\$278,427	\$286,780	\$295,383
Total Operating Expenses	\$649,822	\$677,218	\$705,830	\$778,427	\$811,780	\$846,633
Non-Operating Expenses						
Total CIP (Minimal)	\$57,000	\$80,000	\$85,000	\$75,000	\$25,000	\$25,000
Debt Service (Paid off)	\$394,359	\$0	\$0	\$0	\$0	\$0
Total Non-Operating Expenditures	\$451,359	\$80,000	\$85,000	\$75,000	\$25,000	\$25,000
Total Expenditures	\$1,101,181	\$757,218	\$790,830	\$853,427	\$836,780	\$871,633
Net Revenue	(\$302,346)	\$64,548	\$55,069	\$17,328	\$59,578	\$51,095
Debt Service Coverage (1.1x)	0.4					
Ending Fund Balance	\$272,654	\$337,202	\$392,271	\$409,599	\$469,177	\$520,272
Fund Balance Target	\$422,935	\$435,623	\$448,692	\$462,153	\$476,017	\$490,298

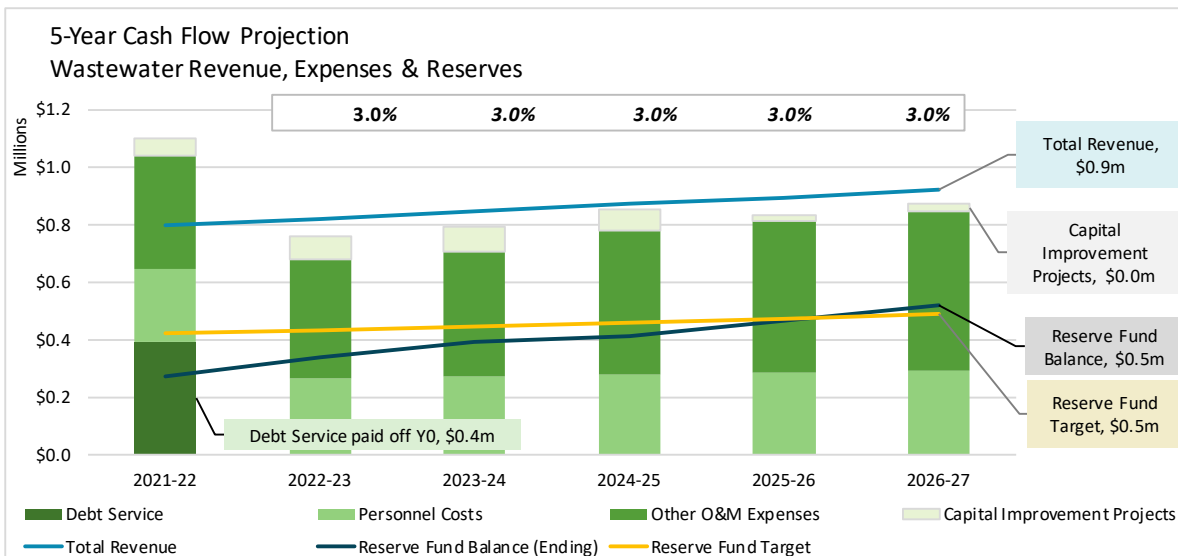


Table 9: Proposed Rate Summary
Bear Valley Water District
Wastewater Cost of Service Rate Study 2022

Projection	0	1	2	3	4	5
Fiscal Year	2021-22	2022-23	2023-24	2024-25	2025-26	2026-27
Adoption Date	Current	7/1/22	7/1/23	7/1/24	7/1/25	7/1/26

Rate Increases: Full Staffing, CIP Funding

Proposed Rate Revenue Increase	10.0%	10.0%	10.0%	10.0%	10.0%
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Residential Rates

Single Family, Multi Family	\$96.35	\$105.99	\$116.58	\$128.24	\$141.07	\$155.17
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Non-Residential Rates

Retail/Commercial/Restaurant/Hotel/Resort	\$0.068	\$0.075	\$0.082	\$0.091	\$0.100	\$0.110
	\$85.81	\$94.39	\$103.83	\$114.21	\$125.63	\$138.20

Rate Increases: Proposed, Reduced CIP

Proposed Rate Revenue Increase	6.0%	6.0%	6.0%	6.0%	6.0%
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Residential Rates

Single Family, Multi Family	\$96.35	\$102.13	\$108.26	\$114.75	\$121.64	\$128.94
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Non-Residential Rates

Retail/Commercial/Restaurant/Hotel/Resort	\$0.068	\$0.072	\$0.076	\$0.081	\$0.086	\$0.091
	\$85.81	\$90.96	\$96.42	\$102.20	\$108.33	\$114.83

Rate Increases: Minimal CIP

Proposed Rate Revenue Increase	3.0%	3.0%	3.0%	3.0%	3.0%
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Residential Rates

Single Family, Multi Family	\$96.35	\$99.24	\$102.22	\$105.28	\$108.44	\$111.70
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Non-Residential Rates

Retail/Commercial/Restaurant/Hotel/Resort	\$0.068	\$0.070	\$0.072	\$0.074	\$0.077	\$0.079
	\$85.81	\$88.38	\$91.04	\$93.77	\$96.58	\$99.48



BEAR VALLEY WATER DISTRICT

BOARD MEETING

October 18, 2021 - 9AM

Teleconference Meeting

441 Creekside Drive, Bear Valley, CA 95223

DECLARATION OF A QUORUM

President James Bissell called the meeting to order at 9:13 A.M. Directors present via Zoom teleconference was Vice President, Gunnar Thordarson, Treasurer, Ken Brown, Director, John Boyle, and Director, Diane Lundquist.

BOARD MEETING

Public comments on agenda items will be limited to 3 minutes or otherwise at the discretion of the Board Chair.

PUBLIC FORUM

Any member of the public may address and ask questions of the Board relating to any matter within the Board's jurisdiction provided the matter is not on the agenda or pending before the Board.

BOARD BUSINESS

1. **The Board will consider adoption of the August 2, 2021 Board Meeting Minutes.**

Motion Bissell Second Brown to accept the August 2nd, 2021 Minutes as presented.

ALL AYES

MOTION CARRIED

2. **Rate Study Discussion** - Discussion and Possible Action Item

General Manager Gouveia solicited six agencies for rate study proposals. The agencies and their proposals were:

- Lechowicz & Tseng Municipal Consultants - \$19,610
- Hansford Economic Consulting - \$26,200
- Bartle Wells Associates - \$12,870
- Hildebrand Consulting - \$29,670
- NBS Consulting - \$10,000
- HFH Consultants - No bid submitted.

GM recommended that the consultant do the study from beginning to end, including preparing the Prop 218 notice and then have legal review.

The Board discussed that based on the time required to prepare the study as well as the mandatory 45 day Prop 218 notification requirement, the earliest rate increase may be implemented could be as long as six months. GM recommended that the District time the increase with the beginning of the new fiscal year.

The scope of the work requested from each consultant included:

- Determine Annual Revenue Requirements
- Review Reserve Fund Targets
- Evaluate Debt Service Coverage
- Review Capital Improvement Plan (CIP) and prepare a financing plan
- Confirm current rate structures are appropriate and consider rate alternatives
- Develop Cash Flow Projections & Utility Rate Design
- Provide a 5-year schedule of rate adjustments
- Provide Public Outreach and Ensure Compliance with the rate adoption process required by Prop 218

Bartels and Wells offers a discount for rural water agencies through the California Rural Water Association which BVWD qualifies for.

President Jim Bissell and Treasurer Ken Brown volunteered to serve on an Ad Hoc Committee to review all proposals and provide guidance and support on selecting the appropriate consultant.

MOTION Bissell SECOND Thordarson to form an Ad Hoc Committee authorized to commit up to \$20,000 to contract with a rate study consultant.

ALL AYES
MOTION CARRIED

3. Surplus Equipment Policy – Resolution No. 2021-500 - Discussion and Possible Action Item

General Manager Gouveia presented a draft policy for disposing of surplus equipment prepared by Legal Counsel Dan Schroeder. The District seeks to create a policy which provides clear direction on the process of disposing of surplus equipment as well as to provide transparency in the eyes of ratepayers and other stakeholders. The Board discussed considering the government auction process as an initial method of selling surplus assets to procure monies for the District. Directors also proposed providing an opportunity for ratepayers or other members of the Bear Valley community to bid on surplus equipment as another method of disposal. The Board generally agreed on a three-tiered system of disposal based on the value of any particular asset.

ACTION: GM directed to bring back a revised policy for review at the Board's next meeting.

3. Manager's Report – General Manager

See attachment.

4. Financial Report – General Manager

4.1 P&L and Balance Sheet Reports - Discussion and Possible Action Item

MOTION Bissell SECOND Lundquist
ALL AYES
MOTION CARRIED

4.2 Accounts Payable Report - Discussion and Possible Action Item

MOTION Bissell SECOND Lundquist
ALL AYES
MOTION CARRIED

4.3 A/R & Aging Reports – Discussion

The Accounts Receivable balance as of October 15, 2021, was \$116,888.39 versus the total on October 15, 2020, which was \$110,126.35.

4.4 FY20-21 Audit – Update

ACTION: As of this meeting the District had not received the audit for the fiscal year ending June 30, 2021. Board review, discussion and approval of the audit will be agendaized at the next meeting of the Board.



**BEAR VALLEY WATER DISTRICT
BOARD MEETING**

October 18, 2021 - 9AM

Teleconference Meeting

441 Creekside Drive, Bear Valley, CA 95223

5. Board Member Reports

Director Boyle discussed establishing a threshold to authorize GM to spend in case of emergency to protect the Tesla batteries in a rain or snow event as well as the conditions under which the GM should call for a Special Meeting of the Board in case of an emergency.

No action was taken following this discussion.

The next meeting was set for February 28, 2022.

President Bissell adjourned the meeting at 12:15 P.M.

AGENDA ITEM

DATE: OCTOBER 18, 2021

TO: BVWD BOARD OF DIRECTORS

FROM: JEFF GOUVEIA, DISTRICT GENERAL MANAGER

RE: MANAGER'S REPORT

1. Water Balance - Update

a. Influent Flows & Effluent Transfers

Influent flows as of October 14th, 2021 was .203

No transfer to the PR.

Land Application – Annual Total – MG Applied for 2021 was 23.788 / 77.6%. Land application began on May 24, 2021.

b. Effluent in Storage, Current Storage Capacity & Land / Surface Disposal Update

Current Storage Volume = 7063.0 = 0.0 MG = 0% as of 10/18/2021.

2. Permit Compliance & Monitoring & Reporting Programs (MRPs) - Update

a. WDR MRP - Land Discharge Permit – Compliance & Reporting Update

- i. Reporting Status Matrix – No Certified Violations, All Reporting Submitted On-Time
August 2021 report submitted on 9/21/2021.

b. NPDES MRP – Surface Water Discharge Permit – Compliance & Reporting Update

- i. Reporting Status Matrix – No Certified Violations, All Reporting Submitted On-Time
August 2021 report submitted on 9/20/2021. Q2 Groundwater report submitted on 9/13/2021.

ii. Permit Renewal Update – September 21, 2021 Effluent Limits – Discussion of Anomalies

A meeting was held between the Regional Water Board, the District, and Stantec on July 13, 2021. Stantec prepared an Evaluation. The evaluation discussed how WY2016/2017 far exceeded a 1-in-10- year event (as well as a 1-in-100-year event), suggesting that the data from 2016/2017 WY should be excluded from the effluent limitation analysis based on the intent of the SIP meant to develop effluent limitations protective through events with a statistical frequency occurring up to once in 10 years. The transformed data set better represents more typical snowmelt, hydraulic residence time, reservoir level/volume, and inflow and infiltration conditions during a potential discharge. The variance is measured data from this trend line was added to the average of the measured data set. This transformed data set (representing the true variance away from the trend clearly observed in each discharge season in 2017, 2018, and 2019) has a CV value of 0.21. This 0.21 value is believed to be the best, most factually based basis for a default CV value for the District's facility. The AMELs and MECs were recalculated for the four constituents of concern (ammonia, aluminum, lead, and copper). With projected MECs being lower than the recalculated AMELs (using a dilution credit of 5 for aluminum, lead, and ammonia, and a dilution credit of 6.5 for copper), it appears the District is capable of achieving reliable compliance with the recalculated AMELs.

The Stantec evaluation recommended that the Regional Board consider recalculating the proposed AMELs and projected MECs using the 2018 and 2019 dataset as well as a default CV value of 0.21. During the meeting a discussion ensued regarding whether there were known causes for anomalies in the water quality data set.

3. Other

a. PGE-SGIP-2020-3656 – WWTF Powerpack Project – Update

GM received a revised time and materials proposal from John T. Watts Construction with a construction cost estimate of \$82,943 to build the enclosure for the Tesla batteries. The GM executed this contract with Watts Construction on August 26, 2021 and the project was completed on October 12, 2021.

b. Cal OES Community Power Resiliency Allocation – Update

GM presented an updated list of projects allocated to the funds received from the Cal OES Grant including. The Gm intends to submit a progress report on or before November 30, 2021 on these various projects.

•Admin Powerwall (6) - \$11,585 ea.	\$68,009
•BG Powerwall (2) - \$13,360 ea.	\$29,349
•MPS Generator – 60kW - \$52,228	\$52,228
•LABR Generator – 40 kW - \$47,610	\$47,610
•Treatment Plant Battery System - \$34,710	\$34,710
•Radio Telemetry - \$68,094	\$68,094
	<hr/>
	\$300,000

The District’s contribution for the battery structure is estimated at \$43,033.

c. Special District COVID Fund - \$100 Million Independent Special District COVID-19 Relief Fund

The District applied for COVID costs reimbursement of \$29,020, \$15,643 in revenue losses and \$13,377 in unanticipated costs.

c. District Design Standards, Specifications & Details – Update

GM presented a Standard Details Report. It was noted that all sewer system construction shall conform to these standard drawings and Caltrans standard specifications (most current edition) and to the standard specifications of the District.

d. Cybersecurity – Update

GM received a proposal from Stantec in the amount of \$4,555.07 for IT services related to enhancing the District’s cybersecurity. The proposal recommended separating the SCADA network from the District network.

f. Alpine County – De Novo Planning Group – Utility Service Questionnaire

GM received a questionnaire from Alpine County – DeNovo Planning Group to complete regarding the District’s capacity for future growth for the 6th Cycle Planning Period (2019-2013).

g. BVWD Roster – 2021 Expiration of Terms of Office (Bissell, Boyle, Lundquist) – Update

County Clerk, Teola Tremayne received the documents from all the candidates. She anticipates the County Board of Supervisors will appoint the candidates in September or October.

h. AB 361 – Public Meetings and Brown Act Compliance

The governor’s Order N-29-20, issued on March 20, 2020, expired on September 30, 2021. Last week the Governor signed AB 361 that amend the Brown Act teleconferencing requirements in the Brown Act and restricting the public’s access to telephone or video conferences. It has some hurdles in it A meeting must be held at least every 30 days to approve the continued use of virtual meeting allowed under the new bill.

AGENDA ITEM

DATE: JANUARY 18, 2022

TO: BVWD BOARD OF DIRECTORS

FROM: JEFF GOUVEIA, DISTRICT GENERAL MANAGER

RE: SURPLUS PERSONAL PROPERTY POLICY

BACKGROUND AND DISCUSSION:

As staff forecast various items of “personal property” to become “surplus” in the coming years as result of reaching the end of useful life, including generators, comminutors, snowmobiles, snow blowers, service vehicles, all-terrain vehicles, etc. the attached policy has been prepared to codify the policy for disposition as well as determine the threshold when Board level involvement shall be triggered regarding the method of disposal of District-owned surplus personal property.

Pursuant to Government Code Sections 25500 – 25509, with respect to District property considered scrap and/or surplus, the Board of Directors may “employ a purchasing agent and such assistants as are necessary” to “sell, lease, or dispose of the personal property of any special district, and pay the proceeds into the treasury of the district, or, if an exchange or trade-in is made, return the proceeds to the special district.”

In accordance with California Water Code Section 35604, as a California Water District, the District “may for a valuable consideration lease, sell, or contract for the sale of any property of the district whenever it may be necessary, advisable, or for the best interests of the district.” Whenever the General Manager, if acting as the Purchasing Agent of the District, determines that such items are no longer needed by the District, according to the draft policy attached, the Purchasing Agent shall determine the estimated value of any surplus property. If the value is under a certain value as established through this policy, the Purchasing Agent may simply dispose of the property including, but not limited to, sending it to a landfill. However, if the estimated value of the surplus property is in excess of a certain value as established by this policy, the Board shall determine the method of disposal.

Where Sections 25503 through 25507 of the Government Code discuss disposition of surplus property unless otherwise directed by the Board, surplus assets of a certain value may be sold or auctioned in an open, competitive environment such that maximum public exposure to the disposal process is accomplished. However, to minimize disposal costs, and assure that revenue from sales is maximized and obtained in a timely manner, it may be financially advantageous to the District to dispose of scrap and/or surplus personal property in a manner that expeditiously maximizes revenue but minimizes costs where possible while seeking to convert idle equipment and materials to revenue for other uses.

RECOMMENDATION

ACTION:

1. Discuss appropriate thresholds for the Purchasing Agent to dispose of assets without Board approval
2. Discuss appropriate thresholds for the Board to determine disposal of assets
3. Motion to Adopt the Bear Valley Water District Surplus Personal Property Policy by Resolution as amended

Attachments:

- Bear Valley Water District Surplus Personal Property Policy – Revised Draft
- Resolution 2021 - 500 – Adopting the Bear Valley Water District Surplus Personal Property Policy
- BVWD 5-Year Depreciation Schedule

Bear Valley Water District Surplus Personal Property Policy

I. Purpose and Application

This Policy establishes the authority and procedure for the disposition of the District's surplus personal property. All disposition of personal property shall adhere to this Policy, except as otherwise determined by the Board.

II. Definitions

The following definitions shall apply to the terms as they appear in this Policy:

- a. "Agent" means the Surplus Personal Property Agent.
- b. "Board" means the Board of Directors of Bear Valley Water District.
- c. "District" shall mean the Bear Valley Water District.
- d. "District Manager" means the person holding the title of District Manager or, if there isn't one, the senior manager of the District.
- e. "Personal Property" means any property owned by the District that is not land or real property. Personal Property includes all equipment and materials of any type.
- f. "Surplus" means Personal Property no longer needed by the District.
- g. "Policy" means this Bear Valley District Surplus Personal Property Policy.

III. Surplus Personal Property Agent Designated

The District Manager is the designated Surplus Personal Property Agent. The Agent may delegate all or a portion of the Surplus Personal Property disposal duties to any District staff member. The Agent shall have the authority to:

- a. Authorize the disposition of Surplus Personal Property in accordance with the procedures outlined in this Policy;
- b. Enter into and sign any contracts for the disposition of Surplus Personal Property the Agent determines are beneficial to the District;
- c. Prepare and recommend to the Board any methods for disposing of Surplus Personal Property requiring Board approval in this Policy;
- d. Establish and maintain such forms as the Agent deems reasonably necessary to the dispose of Surplus Personal Property.

IV. Disposition of Surplus Personal Property Procurement valued as less than \$10,000

If the Agent determines that the estimated value of any Surplus Personal Property is less than \$10,000.00, the Agent may dispose of said property in any manner that they determine will be beneficial to the District, including, but not limited to, throwing away any property when it would cost more to find a buyer for the property than its value. Prior to throwing or giving any Surplus Property that the Agent determines has either no value or the cost of finding a bidder would exceed its estimated value property, the Agent shall offer it to the District's ratepayers. The Agent shall report to the Board at its next meeting how the property was disposed of and the amount the District received for the property.

V. Disposition of Surplus Personal Property Procurement valued between \$0,000 and \$0,000

When the Agent estimates that the value of any Surplus Personal Property is valued between \$0,000 and \$0,000, the Agent shall first list any equipment with a public auction agency experienced in selling surplus government owned equipment for period no less than 60 days. If the equipment fails to sell through auction, the Agent shall follow the process outlined in Section IV including offering the equipment to ratepayers prior to disposing of it in other manners beneficial to the District.

VI. Disposition of Surplus Personal Property Procurement valued as equal or more than \$0,000

When the Agent estimates that the value of any Surplus Personal Property that is equal to or exceeds \$0,000, the Board shall determine how to dispose of that property.

VII. Conflict of Interest

The disposition of all Surplus Personal Property made pursuant to this Policy shall be subject to the limitations and requirements set forth in the District's Conflict of Interest Policy.

**BEAR VALLEY WATER DISTRICT
RESOLUTION NO. 2021-__**

RESOLUTION ADOPTING SURPLUS PERSONAL PROPERTY POLICY

WHEREAS, Bear Valley Water District (the “District”) is authorized to for a valuable consideration lease, sell, or contract for the sale of any property of the District whenever it may be necessary, advisable, or for the best interests of the District, as provided under California Water Code section 35604.

WHEREAS, the District desires to establish policies and protocols that ensure appropriate controls, consistency and use of best practices in the disposal of the District’s surplus personal property

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Bear Valley Water District, as follows:

1. The District hereby approves and adopts the Bear Valley Water District Surplus Personal Property Policy attached hereto as Exhibit A.
2. All previous surplus personal property policies are repealed.

PASSED AND ADOPTED by the Board of Directors of the Bar Valley Water District, at a regular meeting thereof, held on _____, 2021 by the following vote:

AYES: _____
NOES: _____
ABSENT: _____
ABSTENTION: _____

BEAR VALLEY WATER DISTRICT

By: _____
JAMES BISSELL
President, Board of Directors

ATTEST:

JEFF GOUVEIA
General Manager

EXHIBIT A

BEAR VALLEY WATER DISTRICT SURPLUS PERSONAL PROPERTY POLICY

eginning with 06/30/2023

<BUK> METHOD IN SRVCE LIFE BASIS 06/30/2023 06/30/2024 06/30/2025 06/30/2026 06/30/2027

(C) 1: LAND 1.0 Land N/A 01/19/20 0 25,805 0 0 0 0 0

(C) 1: LAND * 1 asset(s) 25,805 0 0 0 0 0

(C) 21: PLANT & ADMIN

2.0 TOOLS	SL-Y	01/01/89	5	7,351	0	0	0	0	0	0
3.0 Flatcar	SL-Y	08/01/89	5	2,750	0	0	0	0	0	0
4.0 Beidge	SL-Y	10/01/89	5	220	0	0	0	0	0	0
5.0 Prints	SL-Y	12/01/89	5	192	0	0	0	0	0	0
6.0 Title Ins	SL-Y	03/01/90	5	58	0	0	0	0	0	0
7.0 Computer	SL-Y	01/01/91	5	1,671	0	0	0	0	0	0
8.0 Billing Program S	SL-Y	12/01/91	5	400	0	0	0	0	0	0
9.0 Printer	SL-Y	12/01/91	5	381	0	0	0	0	0	0
10.0 Radios	SL-Y	01/01/92	5	2,202	0	0	0	0	0	0
11.0 1993 FISO 4x4 Pic	SL-Y	06/01/93	5	2,747	0	0	0	0	0	0
12.0 Truck Improvement	SL-Y	07/01/93	5	12,747	0	0	0	0	0	0
13.0 Xerox Photocopier	SL-Y	05/01/97	5	756	0	0	0	0	0	0
14.0 snowblower	SL-Y	10/01/97	5	272	0	0	0	0	0	0
15.0 office Buidling	SL-Y	10/31/97	40	1,925	0	0	0	0	0	0
17.0 Dodge Ram Pu	SL-Y	01/01/99	6	288,204	7,205	7,205	7,205	7,205	7,205	7,205
18.0 Dell Computer	SL-Y	07/17/09	3	16,846	0	0	0	0	0	0
180.0 Dell Optiplex Com	SL-Y	03/14/12	3	1,325	0	0	0	0	0	0
197.0 utility transfer	SL-Y	08/24/15	20	1,409	0	0	0	0	0	0
207.0 GIS Consulting Su	SL-Y	06/30/18	10	1,555	78	78	78	78	78	78
209.0 SCADA Monitoring	SL-Y	06/30/18	10	23,562	2,356	2,356	2,356	2,356	2,356	2,356
				118,292	11,829	11,829	11,829	11,829	11,829	11,829
			20 asset(s)	482,118	21,468	21,468	21,468	21,468	21,468	21,468

(C) 22: SEWAGE - LAKE ALPINE

19.0 Float switches In	SL-Y	09/01/91	15	979	0	0	0	0	0	0
20.0 Motor	SL-Y	10/01/91	2	395	0	0	0	0	0	0
21.0 generator	SL-Y	11/01/91	20	12,402	0	0	0	0	0	0
22.0 Phase Converter	SL-Y	06/01/92	15	3,651	0	0	0	0	0	0
23.0 Boat Ramp	SL-Y	12/01/92	15	6,299	0	0	0	0	0	0
24.0 Meter	SL-Y	07/01/93	10	535	0	0	0	0	0	0
25.0 Chickaree Pump Ho	MACRS-Y	06/01/98	10	3,190	0	0	0	0	0	0
26.0 Chickaree Pump Ho	SL-Y	01/01/99	10	1,126	0	0	0	0	0	0
27.0 Lake Alpine Pumps	SL-Y	01/01/05	15	76,657	0	0	0	0	0	0
28.0 Irr. Pump #2 & Up	SL-Y	01/01/05	15	2,720	0	0	0	0	0	0
29.0 Remodel Costs	SL-Y	01/01/05	15	8,765	0	0	0	0	0	0
30.0 Boat Ramp	SL-Y	01/01/05	15	2,567	0	0	0	0	0	0
31.0 Auto Dialer	SL-Y	09/01/05	15	3,516	0	0	0	0	0	0
32.0 Overhaul Moyvno Pu	SL-Y	11/01/05	10	6,458	0	0	0	0	0	0
33.0 A/B 100 HP Start	SL-Y	10/13/06	15	13,621	0	0	0	0	0	0
34.0 Pump Repairs 6077	SL-Y	12/01/06	15	16,656	0	0	0	0	0	0
199.0 Phase Converter L	SL-Y	06/30/17	10	6,891	689	689	689	689	689	689
			17 asset(s)	166,428	689	689	689	689	689	689

(C) 23: SEWAGE COLLECTION

35.0 Staton La Main	SL	08/31/78	10	325	0	0	0	0	0	0
36.0 switches Station	SL	12/31/78	10	1,154	0	0	0	0	0	0
37.0 Main & LA Pump st	SL	09/01/79	40	33,186	0	0	0	0	0	0
38.0 Connector	SL	10/01/79	10	7,846	0	0	0	0	0	0
39.0 Pump Station Modi	SL	10/01/79	40	6,748	0	0	0	0	0	0
40.0 Log Cabin Bypass	SL	11/01/79	20	8,157	0	0	0	0	0	0
41.0 Dump	SL	06/01/80	10	1,165	0	0	0	0	0	0
42.0 Containment Basin	SL	09/01/79	10	5,716	0	0	0	0	0	0
43.0 Commeter	SL	10/01/79	10	3,289	0	0	0	0	0	0
44.0 Pump	SL	07/31/80	10	2,236	0	0	0	0	0	0
45.0 Fix Rod	SL	08/01/80	10	455	0	0	0	0	0	0
46.0 Pump & Switch Gea	SL	11/01/80	10	2,478	0	0	0	0	0	0
47.0 Air Compressor	SL	06/30/78	10	105	0	0	0	0	0	0

ASSET	<BU%>	METHOD	IN SRVCE LIFE	BASIS	06/30/2023	06/30/2024	06/30/2025	06/30/2026	06/30/2027	
48.0	Raco High Water A	SL	10/18/83	1,809	0	0	0	0	0	
49.0	Transformer	SL	10/01/84	4,567	0	0	0	0	0	
50.0	Pump (rebu1d)	SL	03/01/85	1,780	0	0	0	0	0	
51.0	Grade Compriatio	SL	07/01/85	1,597	0	0	0	0	0	
52.0	ReliefControlValv	SL	07/01/85	1,947	0	0	0	0	0	
53.0	Press Relief Valv	SL	07/01/85	518	0	0	0	0	0	
54.0	Pump (rebu1d)	SL	08/01/85	1,763	0	0	0	0	0	
55.0	Over-Flow Tanks -	SL	09/01/85	496	0	0	0	0	0	
56.0	Air Compressor	SL-Y	10/08/86	318	0	0	0	0	0	
57.0	Leak Detection Sy	SL-Y	10/01/86	1,982	0	0	0	0	0	
58.0	Misc.	SL-Y	12/01/86	298	0	0	0	0	0	
59.0	Electric Motor	SL-Y	11/01/87	118	0	0	0	0	0	
60.0	Cloranator	SL-Y	05/01/88	1,604	0	0	0	0	0	
61.0	OverFlow Tank	SL-Y	06/01/88	9,339	0	0	0	0	0	
62.0	New Connection LT	SL-Y	10/01/88	975	0	0	0	0	0	
63.0	Smart Pump LC Unt	SL-Y	10/01/89	1,129	0	0	0	0	0	
64.0	New Pump - Lake A	SL-Y	10/01/89	6,778	0	0	0	0	0	
65.0	New Connections L	SL-Y	10/01/89	251	0	0	0	0	0	
66.0	Blower	SL-Y	09/01/01	849	0	0	0	0	0	
67.0	Generator (emerge	SL-Y2	08/01/02	9,547	0	0	0	0	0	
68.0	Tratler Hitch	SL-Y2	09/01/02	37	0	0	0	0	0	
69.0	Slide Gate	SL-Y3	06/01/04	823	0	0	0	0	0	
70.0	System Maps	SL-Y3	11/01/03	6,928	0	0	0	0	0	
71.0	Waterman Valve	SL-Y3	11/01/03	5,954	0	0	0	0	0	
72.0	Portable Flow Met	SL-Y	10/01/05	7,597	0	0	0	0	0	
73.0	Pressure Washer &	SL-Y	09/01/05	754	0	0	0	0	0	
74.0	Fix Paco Pump @ M	SL-Y	01/09/07	6,075	0	0	0	0	0	
75.0	2007 Chevy Truck	SL-Y	10/13/06	8,330	0	0	0	0	0	
77.0	Confined Space En	SL-Y3	01/01/09	4,219	0	0	0	0	0	
177.0	Main Pump Station	SL-Y	06/30/12	171,561	8,578	8,578	8,578	8,578	8,578	
182.0	Ebara K Series Pu	SL-Y1	06/25/13	6,114	309	0	0	0	0	
183.0	Verisight Pro 200	SL-Y	08/30/13	11,910	1,191	595	0	0	0	
185.0	Additional Ebara	SL-Y	09/30/13	688	69	33	0	0	0	
198.0	Smartcover Monito	SL-Y	06/30/17	15,390	2,199	1,096	0	0	0	
212.0	Hydro Jetter	SL-Y	06/30/18	59,272	2,964	2,964	2,964	2,964	2,964	
213.0	Bee Gulch Lift St	SL-Y	06/30/19	60,408	2,416	2,416	2,416	2,416	2,416	
218.0	Hydro Jetter	SL-Y	06/30/21	11,463	764	764	764	764	764	
* (C) 23: SEWAGE COLLECTION *				50 asset(s)	497,048	18,490	16,446	14,722	14,722	14,722

(C) 24: SEWAGE DISPOSAL FACILITY									
76.0	Bloods Creek Outf	SL-Y3	06/30/08	742,797	18,570	18,570	18,570	18,570	18,570
78.0	Disposal Facility	SL	01/01/71	8,387	0	0	0	0	0
79.0	Engineering	SL	01/01/77	6,648	0	0	0	0	0
80.0	Irrigation Pipe	SL	08/01/80	7,567	0	0	0	0	0
81.0	Irrigation pipe	SL	09/01/80	301	0	0	0	0	0
82.0	Spray Feild phase	SL	01/01/83	48,778	610	0	0	0	0
83.0	Irrigation Pipe	SL	07/01/84	56	1	1	0	0	0
84.0	Roofing on New Bu	SL	01/01/84	530	0	0	0	0	0
85.0	Sprayfeild Additi	SL-Y	08/01/86	6,644	0	0	0	0	0
86.0	Pump & Irrigation	SL-Y	08/01/87	7,074	0	0	0	0	0
87.0	Irrigation System	SL-Y	06/01/88	5,070	0	0	0	0	0
88.0	8" Water Meter	SL-Y	06/01/88	589	0	0	0	0	0
89.0	New Irrigation Sy	SL-Y	07/01/88	522	0	0	0	0	0
90.0	Asorbition Trench	SL-Y	07/01/88	1,970	0	0	0	0	0
91.0	Irrigation Materi	SL-Y	08/01/88	868	0	0	0	0	0
92.0	Trench	SL-Y	09/01/88	5,123	0	0	0	0	0
93.0	Irrigation Materi	SL-Y	10/01/88	175	0	0	0	0	0
94.0	Trench	SL-Y	11/01/88	78	0	0	0	0	0
95.0	Sprayfield	SL-Y	07/01/89	1,068	0	0	0	0	0
96.0	Sprayfield	SL-Y	09/01/89	445	0	0	0	0	0
97.0	Sprayfield	SL-Y	04/01/90	10,237	0	0	0	0	0
98.0	Pump	SL-Y	07/01/90	7,643	0	0	0	0	0
99.0	Meter	SL-Y	09/01/90	855	0	0	0	0	0

ASSET	<BU%>	METHOD	IN SRVCE LIFE	BASIS	06/30/2023	06/30/2024	06/30/2025	06/30/2026	06/30/2027	
100.0 Battery	SL-Y		09/01/91 10	308	0	0	0	0	0	
101.0 Sprayfield Expans	SL-Y		10/01/91 10	4,251	0	0	0	0	0	
102.0 Sprayfield Expans	SL-Y		06/01/93 10	420	0	0	0	0	0	
103.0 Sprayfield Expans	SL-Y		08/01/93 10	13,353	0	0	0	0	0	
104.0 Extend Sprayfield	SL-Y		12/01/96 10	10,131	0	0	0	0	0	
105.0 Irrigation Pipe	SL-Y		03/01/98 10	898	0	0	0	0	0	
106.0 Booster Pump MDL	SL-Y		07/01/01 10	8,940	0	0	0	0	0	
107.0 Guard-It Auto Dia	SL-Y		09/01/01 10	1,053	0	0	0	0	0	
108.0 Pumps	SL-Y		08/01/01 10	8,399	0	0	0	0	0	
109.0 Effluent 100 HP P	SL-Y2		10/01/01 10	7,000	0	0	0	0	0	
110.0 Peerless Pump	SL-Y2		09/01/02 10	5,974	0	0	0	0	0	
111.0 Simfluo Pump	SL-Y2		10/01/02 7	2,365	0	0	0	0	0	
112.0 Irrigation Flow M	SL-Y3		06/01/04 10	9,841	0	0	0	0	0	
113.0 Groundwater Monit	SL-Y		01/01/05 10	10,785	0	0	0	0	0	
114.0 Paco Pumps	SL-Y		10/23/06 10	4,050	0	0	0	0	0	
115.0 Outfall Permit &	SL-Y		01/05/07 50	51,378	0	0	0	0	0	
178.0 NPDES Permit	SL-4		07/01/11 5	60,189	0	0	0	0	0	
179.0 DSP Facilities/sp	SL-Y		06/30/12 5	17,442	0	0	0	0	0	
180.0 Dechlorination Sy	SL-Y1		07/01/12 10	21,540	1,077	0	0	0	0	
190.0 OUTFALL BYPASS	SL-Y		08/24/14 25	28,914	1,157	1,157	1,157	1,157	1,157	
191.0 PUMP REBUILT	SL		09/22/14 15	20,199	1,213	1,213	1,213	1,213	1,213	
192.0 SOFTSTART FOR PUM	SL-Y		09/17/14 15	8,545	570	570	570	570	570	
193.0 CLAVAL IRRIG. PUM	SL-Y		11/24/14 20	7,229	361	361	361	361	361	
200.0 Spray Field Pipes	SL-Y		06/30/17 5	5,965	0	0	0	0	0	
201.0 Power Fat Relay	SL-Y		06/30/17 10	1,188	119	119	119	119	119	
202.0 Three Sigma Analg	SL-Y		06/30/17 10	2,072	207	207	207	207	207	
203.0 USFS Spectral Use	SL-Y		06/30/17 5	8,344	0	0	0	0	0	
204.0 Mixing zone study	SL-Y		06/30/17 5	12,210	0	0	0	0	0	
205.0 NPDES Permit	SL-Y		06/30/17 5	10,345	0	0	0	0	0	
206.0 Priority Pollutan	SL-Y		06/30/17 5	10,378	0	0	0	0	0	
208.0 Dechlorination Sy	SL-Y		06/30/18 10	14,224	1,422	1,422	1,422	1,422	1,422	
211.0 Mix Zone Study Ph	SL-Y		06/30/18 5	13,234	1,322	0	0	0	0	
214.0 Inundation Mappin	SL-Y1		06/30/20 20	19,614	981	981	981	981	981	
* (C) 24: SEWAGE DISPOSAL FACILITY *				56 asset(s)	1,264,403	28,638	25,629	25,628	25,628	25,464
(C) 25: SUBSURFACE LINES										
116.0 Sewage Lines	SL-Y		01/19/71 99	72,801	735	735	735	735	735	
117.0 Engineering	SL		08/30/71 99	1,003	10	10	10	10	10	
118.0 Manhole Cover	SL		06/30/72 99	58	1	1	1	1	1	
119.0 System (1972-1)	SL		01/19/74 99	564,625	5,703	5,703	5,703	5,703	5,703	
120.0 Trant #5 Sewer Sy	SL		01/19/76 99	34,732	351	351	351	351	351	
121.0 Lake Alpine Col S	SL		01/01/76 99	502,742	5,078	5,078	5,078	5,078	5,078	
122.0 Main Line Collect	SL		09/30/78 99	346	0	0	0	0	0	
123.0 Lot 364 - Sewer L	SL-Y		09/19/94 75	5,500	73	73	73	73	73	
124.0 Subsurface Lines	SL-Y		11/01/97 75	1,941	26	26	26	26	26	
125.0 Sewer Lateral To	SL-Y2		12/01/01 75	3,978	53	53	53	53	53	
126.0 Sewage Lines - Pa	SL		01/01/77 99	4,167	42	42	42	42	42	
175.0 Sewer Lines Lisse	SL-Y		07/31/10 50	5,000	100	100	100	100	100	
* (C) 25: SUBSURFACE LINES *				12 asset(s)	1,196,893	12,172	12,172	12,172	12,172	12,172
(C) 26: TREATMENT FACILITY										
127.0 Treatment Facility	SL		01/19/71 40	27,918	0	0	0	0	0	
128.0 1/3 HP Gearmotor	SL		07/31/72 20	728	0	0	0	0	0	
129.0 Treatment Facility	SL		07/31/73 40	261	0	0	0	0	0	
130.0 Treatment Facility	SL		07/31/74 40	298	0	0	0	0	0	
131.0 Treatment Facility	SL		06/30/74 40	209	0	0	0	0	0	
132.0 Sotl Test & Pollu	SL		01/19/73 40	3,276	0	0	0	0	0	
133.0 Treatment Plant &	SL		01/01/76 40	658,865	0	0	0	0	0	
134.0 Division of Dam S	SL		01/01/77 40	1,092	0	0	0	0	0	
135.0 Blower House	SL		10/01/79 20	1,344	0	0	0	0	0	
136.0 2/500 Gal Propane	SL		05/01/80 10	900	0	0	0	0	0	
137.0 Major Dam Repairs	SL		10/01/81 20	3,101	0	0	0	0	0	

Beginning with 06/30/2023

ASSET	<BU%>	METHOD	IN SRVCE LIFE	BASIS	06/30/2023	06/30/2024	06/30/2025	06/30/2026	06/30/2027
138.0	Major Dam Repairs	SL	11/01/82 20	4,572	0	0	0	0	0
139.0	Splllway Construc	SL	10/01/84 20	525	0	0	0	0	0
140.0	Water Heater	SL	10/01/84 20	246	0	0	0	0	0
141.0	Overhead Trucks & S	SL	02/01/85 20	343	0	0	0	0	0
142.0	2 Motors	SL	06/01/85 20	1,166	0	0	0	0	0
143.0	Welding Patls	SL	08/01/85 20	25	0	0	0	0	0
144.0	Blowing Equip	SL	08/01/85 20	377	0	0	0	0	0
145.0	Frnch Dratin	SL	09/01/85 40	1,849	46	46	46	8	0
146.0	Duel Holeshaft	SL	06/01/85 10	915	0	0	0	0	0
147.0	Misc. Pump Work	SL-Y	10/01/86 10	11,900	0	0	0	0	0
148.0	Pump Parts	SL-Y	07/01/87 10	728	0	0	0	0	0
149.0	Paint	SL-Y	10/01/87 10	82	0	0	0	0	0
150.0	Clorrenarrion Inj.	SL-Y	10/01/87 10	71	0	0	0	0	0
151.0	Sump Pump	SL-Y	06/01/88 10	253	0	0	0	0	0
152.0	Spring Field Phas	SL	06/01/88 10	107,354	2,684	895	0	0	0
153.0	A Frame	SL	11/01/83 40	2,669	67	8	0	0	0
154.0	Spring Field Expa	SL	06/01/84 40	2,40	6	5	0	0	0
155.0	Lake Alpine Col's	SL	06/12/78 99	43,200	436	436	436	436	436
156.0	Comminutor (Moj.)	SL-Y	02/01/89 10	780	0	0	0	0	0
157.0	Pump, NSC	SL-Y	07/01/89 10	3,226	0	0	0	0	0
158.0	Comminutor	SL-Y	10/01/89 10	11,384	0	0	0	0	0
159.0	Addition	SL-Y	11/01/89 10	52	0	0	0	0	0
160.0	Motor	SL-Y	09/01/91 10	229	0	0	0	0	0
161.0	Pump	SL-Y	10/01/91 10	6,323	0	0	0	0	0
162.0	Heater	SL-Y	12/01/91 10	208	0	0	0	0	0
163.0	Battery	SL-Y	06/01/92 10	177	0	0	0	0	0
164.0	Pump	SL-Y	11/01/93 10	558	0	0	0	0	0
165.0	Comminutor	SL-Y	03/01/94 10	3,492	0	0	0	0	0
166.0	Truck	SL-Y1	07/01/01 5	9,322	0	0	0	0	0
167.0	WTF Sampling	SL-Y3	01/01/04 10	1,388	0	0	0	0	0
168.0	Pressure Washer &	SL-Y	09/01/05 15	4,405	0	0	0	0	0
169.0	Chlorine Washer U	SL-Y	11/01/05 5	8,184	0	0	0	0	0
170.0	Main Station Flow	SL-Y	11/01/05 10	1,329	0	0	0	0	0
171.0	Toshiba 30HP Afr	SL-Y	09/05/06 10	3,930	0	0	0	0	0
172.0	PACO Pumps	SL-Y	10/23/06 10	8,330	0	0	0	0	0
173.0	2007 Chevy Truck	SL-Y	10/13/06 5	108,145	3,605	3,605	3,605	3,605	3,605
174.0	Chlorine Contact	SL-Y	07/31/10 30	5,420	542	271	0	0	0
176.0	Chlorine Gas Dete	SL-Y	10/01/13 10	490	49	24	0	0	0
186.0	Addn'1 Chlorine G	SL-Y	11/22/13 10	308	31	14	0	0	0
187.0	Addn'1 Chlorine G	SL-Y	01/31/14 10	10,101	1,010	1,010	506	0	0
188.0	D.O. Probe	SL-Y	09/01/14 10	41,437	2,762	2,762	2,762	2,762	2,762
189.0	Gardner Denver VF	SL-Y	12/09/14 15	41,437	2,762	2,762	2,762	2,762	2,762
194.0	TSS Probe	SL-Y	08/01/15 10	3,929	393	393	393	196	0
195.0	Lightening/surge	SL-Y	11/30/15 25	3,315	133	133	133	133	133
196.0	Treatment Pond Do	SL-Y	06/30/16 70	10,582	151	151	151	151	151
210.0	Equip House Trans	SL-Y	06/30/18 20	4,829	241	241	241	241	241
215.0	Treatment Pond Do	SL-Y	06/30/20 20	4,664	233	233	233	233	233
216.0	Treatment Pond Im	SL-Y	06/30/20 30	221,096	7,370	7,370	7,370	7,370	7,370
219.0	Transfer Flow Met	SL-Y	06/30/21 10	5,943	594	594	594	594	594
60	asset(s)			1,358,837	20,353	18,191	16,470	15,729	15,525
216	asset(s)			4,991,532	101,810	94,595	91,149	90,408	89,696

* (C) 26: TREATMENT FACILITY *
GRAND TOTAL

AGENDA ITEM

DATE: JANUARY 18, 2022

TO: BVWD BOARD OF DIRECTORS

FROM: JEFF GOUVEIA, DISTRICT GENERAL MANAGER

RE: ELECTING & APPOINTING OFFICERS OF THE BOARD

BACKGROUND AND DISCUSSION:

Pursuant to Article IV of the District's bylaws, elected officers shall be chosen by the Board from among the five (5) members of the Board and shall consist of a *President* and a *Vice-President*.

Section 2 goes on to discuss the terms of elected officers adding:

- Officers shall be elected by the Board at its first meeting in a new calendar year
- Officers shall serve for one (1) year, said term to commence upon election
- All elected officers shall be eligible to serve successive terms
- Officers shall continue to serve in their capacity as an officer until their successor is elected

Article V of the by-laws further conveys that the Board may appoint such other officers as it deems necessary. The General Manager currently serves as an appointed officer. The Board may also consider appointing a Treasurer to the Board. The Treasurer may be a Director of the Board and may hold this appointment until the Board either chooses a new Treasurer or chooses not to have an acting Treasurer. Director Brown currently serves as the Treasurer to the Board.

RECOMMENDATION:

ACTION:

1. Board should hold a vote for President and Vice President for the term expiring at the "first meeting in a new calendar year."
2. Board should discuss and consider a Director to serve as Treasurer to the Board.

Attachments:

- BVWD Revised By-Laws as Approved July 22, 2019

RESOLUTION NO. 2019-30

RESOLUTION OF THE BOARD OF SUPERVISORS,
COUNTY OF ALPINE, STATE OF CALIFORNIA
APPROVING THE REVISED BEAR VALLEY WATER DISTRICT BYLAWS

WHEREAS, the Bear Valley Water District was created by Resolution No. 68-39, and

WHEREAS, on August 5, 1968, the Board of Directors of the Bear Valley Water District adopted Bylaws of the District pursuant to Section 35302 of the Water Code; and

WHEREAS, the last revision to the Bear Valley Water District Bylaws was adopted by the Board of Directors in 2010, and

WHEREAS, amendments to said Bylaws were duly and regularly passed and adopted by the Board of Directors of the Bear Valley Water District at a meeting held on the 22nd day of July, 2019, and

WHEREAS, said amended Bylaws require further amending to be consistent with the various amendments to the California Water District Law; and

WHEREAS, the Bear Valley Water District requests that the Board of Supervisors adopt the revised Bear Valley Water District Bylaws submitted as Attachment "A".

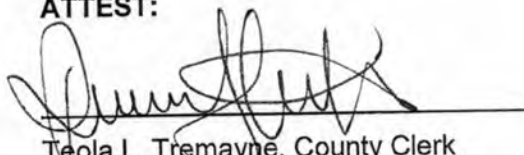
ADOPTED this 6th day of August 2019, by the following vote:

AYES: Jardine, Hames, Rakow, Woodrow, Griffith



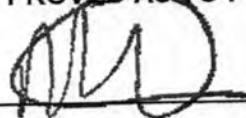
David Griffith, Chair
Board of Supervisors, County of
Alpine, State of California

ATTEST:



Teola L. Tremayne, County Clerk
& Ex Officio Clerk to the
Board of Supervisors
By: Patricia Griffin, Assistant County Clerk

APPROVED AS TO FORM:



Margaret Long, County Counsel

**BYLAWS
OF THE
BEAR VALLEY WATER DISTRICT**

Adopted July __, 2019

**ARTICLE I
GENERAL**

Section 1. Name.

This water sanitary district shall be known as the BEAR VALLEY WATER DISTRICT (BVWD or District).

Section 2. District Office.

The District Office shall be established by Resolution and may be changed from time to time by Resolution.

**ARTICLE II
PURPOSE**

The purpose of the BVWD is to provide services to the residents of Bear Valley consistent with the Division 13 of the California Water Code.

**ARTICLE III
BOARD OF DIRECTORS**

Section 1. Number.

The governing body of BVWD shall consist of five (5) elected Directors, each of whom shall serve a term of four (4) years. Such terms of office to be established on a staggered basis. During elections every two (2) years, either two (2) or three (3) Directors are elected for the next four (4) years.

Section 2. Qualifications.

In accordance with Water Code section 34700, each Director shall be one of the following:

- (a) A holder of title to land within the BVWD.
- (b) The legal representative of a holder of title to land within BVWD in accordance with Water Code section 34030.
- (c) A representative designated by a holder of title to land within BVWD, if the holder has filed with BVWD written evidence of that designation.

Section 3. Responsibility.

The Board of Directors shall govern the BVWD and establish policies for the operation of the District. The Directors shall carry out their duties as set forth in law, these bylaws, and other policies of BVWD honestly and faithfully.

Section 4. Compensation.

Members of the Board of Directors shall receive compensation for each day's attendance at meeting of the Board or for each day's service rendered as a director by request of the Board in an amount established by resolution of the Board of Directions, but in no case may the amount exceed the amount set forth in Water Code section 34741. Nor shall the total compensation to any Director exceed the total of six days in any calendar month, together with any expenses authorized by the Board. Compensation for all other officers who are not members of the Board of Directors shall be established by the Board.

Section 5. Vacancies.

Vacancies on the Board shall be filled in accordance with Government Code Section 1780.

Section 6. Resignation.

A director may resign at any time by giving written notice to the Board, to the President, or to the Secretary of the Board. Any such resignation shall take effect at the date of the receipt of such notice or at any later time specified therein; and, unless otherwise specified therein, the acceptance of such resignation shall not be necessary to make it effective.

**ARTICLE IV
OFFICERS**

Section 1. Elected Officers.

The elected officers shall be chosen by the Board from among the five (5) members of the Board and shall consist of a President and a Vice-President.

Section 2. Terms of Elected Officer.

Elected Officers of the Board shall be elected by the Board at its first meeting in a new calendar year and shall serve for one (1) year, said term to commence upon election. All elected officers shall be eligible to serve successive terms. Officers shall continue to serve in their capacity as an officer until their successor is elected.

Section 3. Duties of Elected Officers.

A. President.

1. Shall preside at all meetings of the board and such other meetings approved by the Board, and have the authority to call for short recesses during meetings unless a majority of the Directors by vote oppose a recess.
2. Shall serve as official spokesperson for the Board.
3. Shall appoint such committees and other working groups as prescribed by the Board.
4. Shall designate Directors or others to represent the Board at various meetings, hearings, and conferences.
5. Shall perform such other duties as necessary to carry out the work of the Board.
6. Shall perform such duties as prescribed by law.

B. Vice-President.

1. Shall serve in the absence of the President.

**ARTICLE V
APPOINTED OFFICERS**

Section 1. Appointed Officers.

- A. The appointed officers of the District shall be a General Manager and a Secretary who may be the same person, but none of whom shall be a Director. The duties of the appointed officers shall be as specified in law, and as directed by the Board. The Board may also appoint a Treasurer in accordance with.
- B. Pursuant to Water Code Section 34711, the District Board of Directors may appoint a District Treasurer, who shall be responsible for the deposit and withdrawal of funds of the District.
- C. The Board may appoint such other officers as it deems necessary.

Section 2. General Manager Duties.

The General Manager is employed by the board to run the day-to-day business of the BVWD.

Duties of the General Manager (Manager) include, but are not limited to:

- A. Appraise and evaluate the effects of the Board policies and the manner of their execution, and the efficiency of BVWD personnel in terms of services rendered to the people of the District.
- B. Provide leadership to staff in identifying district needs, establishing priorities and determining the objectives, which will achieve the established goals of the District.
- C. Encourage and assist staff in the performance of their duties and encourage their professional growth.
- D. Ensure evaluation of personnel under his/her direction.
- E. Provide financial oversight of the District and Alpine County pursuant to funds on deposit at that agency.
- F. Lead the District management team in the preparation of an annual budget, control of expenditures, inventory control, program planning, changing priorities and public relations.
- G. Perform the function of the District's Public Information Officer.
- H. Dispatch the contractor hired for operations on all wastewater problems in BVWD that require fieldwork. The Manager will respond only if the situation is too complicated for the contractor hired for operations to handle.
- I. Keep the Board informed of all communications affecting the District.
- J. Establish regular office hours and ensure that there is at least one person in the office during those hours.
- K. Such other duties as may from time to time be assigned by the Board.

Section 3. Secretary Duties.

- A. The Secretary shall attend Board meetings and prepare the minutes of the Board meetings which shall record the aye and no votes taken by the members of the Board for the passage of all ordinances, resolutions, or motions.
- B. The Secretary shall prepare the agenda for the Board meetings, post agendas, public notices and proposed action documents as required by the Board and government regulations.
- C. The Secretary shall keep a record of all Board actions, including financial transactions.
- D. The Secretary is responsible for keeping the Ordinances and all changes.
- E. The Secretary shall maintain and file with the County Clerk and the Secretary of State the filings required under Government Code section 53050 for the Roster of

Public Agencies.

Section 4. Treasurer Duties.

- A. If a Treasurer is appointed by the Board of Directors, they shall serve at the pleasure of the Board and be responsible for those responsibilities set forth in Water Code section 34711 and any other as determined by the Board.

**ARTICLE VI
MEETINGS**

Section 1. Regular and Special Meetings.

- A. The Board shall hold a regular meeting on dates and times as established by the Board from time to time by resolution. All regular meeting shall be held at the District Office. Such meetings may be altered as to date, time and place, as provided for in a Resolution adopted by the Board.
- B. Special meetings may be called by the President or by a majority of Directors.
- C. All meetings shall be conducted in accordance with the Ralph M. Brown Act.
- D. All motions made at Board meetings shall require a second to the motion prior to the Directors voting.
- E. Directors may attend any regular and special meeting telephonically as provided in the Ralph M. Brown Act.

Section 2. Quorum.

The Board shall be empowered to conduct the business of the District whenever there is a quorum of Directors at a properly noticed meeting. Three Directors shall constitute a Quorum.

Section 3. Voting.

- A. The vote of a majority of the Directors present at any meeting attended by a Quorum shall be necessary to pass any motion, adopt any resolution, or make any determination.
- B. Voting shall be by voice, show of hands, or roll call vote.
- C. Should a Director vote “Abstain” on a motion, the vote shall be considered a non-vote and not counted as an affirmative or negative vote.

Section 4. Notice of Regular and Special Meetings.

- A. Notices of all regular and special meetings shall be pursuant to the Ralph M. Brown Act.
- B. Notices of regular and special meetings. In the case of special meetings, the notice, written or by telephone, shall specify the specific nature of the business to be transacted.

**ARTICLE VII
ELECTIONS**

Section 1. Procedure of Voting.

All District elections shall be conducted in accordance with the procedures set forth in Water Code Section 35100 et. seq.

Section 2. Manner of Voting.

The manner of voting in all District elections shall be as set forth in Water Code section 35003.

Section 3. Voting in Person or by Proxy.

Every eligible voter may vote either in person or proxy in accordance with Water Code sections 35004-35006.

**ARTICLE VIII
PARLIAMENTARY AUTHORITY**

Rosenberg's Rules of Order, current edition and all future editions or such other authority as may be subsequently adopted by resolution of the Board is to apply to all questions of procedure and parliamentary law not specified in these Bylaws or otherwise by law.

**ARTICLE IX
PENALTIES**

The penalty for any single violation of these bylaws shall not exceed two hundred dollars (\$200.00).

**ARTICLE X
AMENDMENTS**

The Bylaws may be repealed or amended, or new Bylaws by either of the following methods:

(a) By four-fifths ($4/5$ ths) vote of the total number of Directors as set forth in Article 3 Section 1 of these bylaws and approval of the Board of Supervisors of Alpine County, or

(b) By two-thirds ($2/3$ rds) vote of the total vote of the District in writing or cast by ballot at a District election.

AGENDA ITEM

DATE: JANUARY 18, 2022

TO: BVWD BOARD OF DIRECTORS

FROM: JEFF GOUVEIA, DISTRICT GENERAL MANAGER

RE: MANAGER'S REPORT

1. Water Balance - Update
 - a. Influent Flows & Effluent Transfers
 - a. Effluent in Storage, Current Storage Capacity & Land / Surface Disposal Update
2. Permit Compliance & Monitoring & Reporting Programs (MRPs) - Update
 - a. WDR MRP - Land Discharge Permit – Compliance & Reporting Update
 - i. Reporting Status Matrix – No Certified Violations, All Reporting Submitted On-Time
 - b. NPDES MRP – Surface Water Discharge Permit – Compliance & Reporting Update
 - i. Reporting Status Matrix – No Certified Violations, All Reporting Submitted On-Time
 - ii. 30 December 2021 – Self Monitoring Report Review – No Violations of WDRs or MRP Identified
 - iii. Permit Renewal Update – Preliminary draft end of January, June Regional Board meeting Agenda, 30 day public review period by about mid-March.
3. Other
 - a. Special District COVID Fund - \$100 Million Independent Special District COVID-19 Relief Fund

The District qualified for and submitted for a COVID related reimbursement of \$29,020 (\$15,643 in revenue losses and \$13,377 in unanticipated costs). On December 16, 2021 the District was notified it was awarded \$95,675. The State Controller's Office issued allocations to County-Auditor Controllers on December 15, 2021. Counties have 30 days to disperse funds to the special district recipients.
 - b. USFS Conversion of Flush Toilets > Vault Toilets - Update
 - c. Lake Alpine Water Company Treatment Process Discharge Proposal - Update
 - d. PGE-SGIP-2020-3656 – WWTF Powerpack Project – Update
 - e. Cal OES Community Power Resiliency Allocation - Update
 - f. District Design Standards, Specifications & Details – Update
 - g. Cybersecurity – Update
 - h. SB 323 – 120 Day Statute of Limitations for New or Increased Water & Sewer Rates

Board Meeting 1-18-22

• **Influent Flows (MG) – Total of ALL Wastewater Received / % change previous year**

<u>October, 2021</u>	<u>October, 2020</u>	<u>October, 2019</u>
.844 / 119.4%	.707 / 141.1	.501 / 100%
<u>November 2021</u>	<u>November 2020</u>	<u>November 2019</u>
1.373 / 220.7%	.622 / 124.6%	.499 / 107.5
<u>December 2021</u>	<u>December 2020</u>	<u>December 2019</u>
1.785 / 216.9%	.823 / 82.1%	1.002 / 120.4%
<u>January 1 - 11, 2022</u>	<u>January, 2021</u>	<u>January, 2020</u>
.827	.797 / 88.9%	0.897 / 100.5%

• **Transferred to PR (MG) - Volume of Water Moved from Treatment to Storage / % change previous year**

<u>October, 2021</u>	<u>October, 2020</u>	<u>October, 2019</u>
0 / 0	.396	0.000
<u>November 2021</u>	<u>November 2020</u>	<u>November 2019</u>
1.602 / 59.6%	2.690	0.000
<u>December 2021</u>	<u>December 2020</u>	<u>December 2019</u>
3.934 / 2248%	.175	0.000
<u>January 1 - 11, 2022</u>	<u>January, 2021</u>	<u>January, 2020</u>
1.177	.626 / 521.6%	0.120 / 40.3%

NOTE: During September 2021 maintenance was being performed on the Polishing Reservoir.

• **Land Application - Annual Totals – MG Applied / % change previous year**

<u>2021</u>	<u>2020</u>	<u>2019</u>	<u>2018</u>	<u>2017</u>
23.788 / 77.6%	30.639 / 158.8%	19.293 / 83.1%	23.215 / 144.6%	16.051 / 30.5%
2021 Land App Began May 24	2020 Land App Began June 2	2019 Land App Began July 12		

• **Surface Discharge - Effluent Flow Discharge Totals – MG - NO EFFLUENT WAS DISCHARGED IN 2020 or 2021**

<u>March 2019</u>	<u>April 2019</u>	<u>May 2019</u>	<u>June 2019</u>	<u>Total 2019 Discharge</u>
0.0	0.0	29.5	26.9	56.5
<u>March 2018</u>	<u>April 2018</u>	<u>May 2018</u>	<u>June 2018</u>	<u>Total 2018 Discharge</u>
0.0	11.9	11.7	0.0	23.6
<u>March 2017</u>	<u>April 2017</u>	<u>May 2017</u>	<u>June 2017</u>	<u>Total 2017 Discharge</u>
15.8	29.9	29.7	16.9	92.3

• **Storage Reservoir Elevations and Volumes (based on 10/6/15 pressure chart):**

- Empty (minimum pool) = 7063.0' = 0 MG = 0'
- Total Depth (w/2' Freeboard) = 7086.3' = 76.45 MG = 23.3'
- Total Depth (spillway) = 7088.3' = 85.86 MG = 25.3'
- Permitted Full Reservoir (2' Freeboard) = 7086.3' = 76.45 MG = 100%
 - Highest Level 2021 – 5/13/21 = 7073.3' = 25.17 MG = 32.9%
 - Highest Level 2020 – 5/28/20 = 7075.6' = 33.01 MG = 43.2%
 - Highest Level 2019 – 5/1/19 = 7079.8' = 48.68 MG = 63.7%
 - Highest Level 2018 – 4/20/18 = 7078.3' = 42.88 MG = 56.1%
 - Highest Level 2017 – 3/8/17 = 7083.9' = 65.67 MG = 85.9%
 - Highest Level 2016 – 5/26/16 = 7081.9' = 57.16 MG = 74.7%
 - Current Storage Volume = 7071.8 = 20.33 MG = 26.6% (1/11/2022)
 - Storage Volume 1 Year Ago = 7064.7 = 2.03 MG = 2.7% (1/9/2021)

• **Collection System**

- 2021 Jet 11,692', % change previous year: 68%. Video 9,980', % change previous year: 88%
- 2020: Jet 17,194', % change previous year: 266%. Video 11,367', % change previous year: 196%
- 2019: Jet 6,468', % change previous year: 93%. Video 5,800' % change previous year: 249%
- 2018: Jet 6,990', % change previous year: 230%. Video 2,330', % change previous year: 173%
- 2017 Jet 3030' Video 1350'



SMR / DMR Reporting

Facility Name: Bear Valley WWTF
 Water Board Office: Region 5S - Sacramento
 Reporting Level: Level I

Order Number: 5-01-208
 Case Worker: Kenny Croyle

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2413411	2021	MONRPT	Annual	01/01/2021 - 12/31/2021	02/01/2022	Future			No
2494376	Q3 2021 (3 times per year)	GR_WATER	Quarterly	10/01/2021 - 12/31/2021	02/01/2022	Future			No
2523647	December 2021	MONRPT	Monthly	12/01/2021 - 12/31/2021	02/01/2022	Future			No
2551405	January 2022	MONRPT	Monthly	01/01/2022 - 01/31/2022	03/01/2022	Future			No
2551406	February 2022	MONRPT	Monthly	02/01/2022 - 02/28/2022	04/01/2022	Future			No
2551407	March 2022	MONRPT	Monthly	03/01/2022 - 03/31/2022	05/01/2022	Future			No
2464587	June 2021	MONRPT	Monthly	06/01/2021 - 06/30/2021	08/01/2021	Submitted	07/20/2021		No
2413412	Q1 2021 (3 times per year)	GR_WATER	Quarterly	04/01/2021 - 07/31/2021	09/01/2021	Submitted	08/18/2021		No
2477286	July 2021	MONRPT	Monthly	07/01/2021 - 07/31/2021	09/01/2021	Submitted	08/30/2021		No
2485306	August 2021	MONRPT	Monthly	08/01/2021 - 08/31/2021	10/01/2021	Submitted	09/20/2021		No
2477287	Q2 2021 (3 times per year)	GR_WATER	Quarterly	08/01/2021 - 09/30/2021	11/01/2021	Submitted	09/13/2021		No
2494375	September 2021	MONRPT	Monthly	09/01/2021 - 09/30/2021	11/01/2021	Submitted	10/25/2021		No
2505782	October 2021	MONRPT	Monthly	10/01/2021 - 10/31/2021	12/01/2021	Submitted	11/22/2021		No
2519075	November 2021	MONRPT	Monthly	11/01/2021 - 11/30/2021	01/01/2022	Submitted	12/21/2021		No



SMR / DMR Reporting

Facility Name: Bear Valley WWTF

Water Board Office: Region 5S - Sacramento

Reporting Level: Level II

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Order Number: R5-2016-0045
 Case Worker: Mohammad Farhad
 All Electronic Date: 08/01/2016

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2416789	2021	MONNPFDES	Annual	01/01/2021 - 12/31/2021	02/01/2022	Future			No		
2524124	December 2021	MONNPFDES	Monthly	12/01/2021 - 12/31/2021	02/01/2022	Future			No		
2554620	January 2022	MONNPFDES	Monthly	01/01/2022 - 01/31/2022	03/01/2022	Future			No		
2554621	February 2022	MONNPFDES	Monthly	02/01/2022 - 02/28/2022	04/01/2022	Future			No		
2554622	March 2022	MONNPFDES	Monthly	03/01/2022 - 03/31/2022	05/01/2022	Future			No		
2465241	June 2021	MONNPFDES	Monthly	06/01/2021 - 06/30/2021	08/01/2021	Submitted	07/20/2021	10/12/2021	No	Download Report	
2477500	July 2021	MONNPFDES	Monthly	07/01/2021 - 07/31/2021	09/01/2021	Submitted	08/30/2021	10/12/2021	No	Download Report	
2485547	August 2021	MONNPFDES	Monthly	08/01/2021 - 08/31/2021	10/01/2021	Submitted	09/20/2021	10/12/2021	No	Download Report	
2495155	September 2021	MONNPFDES	Monthly	09/01/2021 - 09/30/2021	11/01/2021	Submitted	10/25/2021	12/23/2021	No	Download Report	
2505684	October 2021	MONNPFDES	Monthly	10/01/2021 - 10/31/2021	12/01/2021	Submitted	11/22/2021	12/23/2021	No	Download Report	
2516236	November 2021	MONNPFDES	Monthly	11/01/2021 - 11/30/2021	01/01/2022	Submitted	12/21/2021	12/23/2021	No	Download Report	



Central Valley Regional Water Quality Control Board

30 December 2021

Jeff Gouveia
General Manager
Bear Valley Water District
P.O. Box 5027
Bear Valley, CA 95223

Via email Only:
jeff.gouveia@bvwd.ca.gov

SELF-MONITORING REPORT REVIEW, BEAR VALLEY WATER DISTRICT, BEAR VALLEY WASTEWATER TREATMENT FACILITY, ALPINE COUNTY

The Bear Valley Water District (Discharger) discharges treated wastewater from the Bear Valley Wastewater Treatment Facility (Facility), which is regulated under surface water discharge permit Waste Discharge Requirements (Surface Water WDRs) Order R5-2016-0045-01 (NPDES CA0085146) and land discharge Waste Discharge Requirements Order 5-01-208 (Land Discharge WDRs). The Monitoring and Reporting Programs (MRPs) of both WDRs require monitoring for constituents and other parameters and specifies the location and frequency of monitoring. Central Valley Regional Water Quality Control Board (Central Valley Water Board) staff has reviewed the electronic self-monitoring reports (eSMRs) required by the WDRs R5-2016-0045-01 submitted by the Discharger for the **June 2021** through **November 2021** monitoring periods.

No discharge to surface water occurred during the period reviewed under cover of this letter, and no violations of the WDRs or MRP were identified from review of the eSMRs.

Submittal Required by the WDRs

No technical or progress reports were required by the WDRs during the period reviewed under cover of this letter. The next report required by the WDRs is the *2021 Annual Operations Report*, which is due by 30 January 2022.

DENISE KADARA, ACTING CHAIR | PATRICK PULUPA, EXECUTIVE OFFICER

Jeff Gouveia

-2-

30 December 2021

If you have any questions, please contact me at (916) 464-1181 or by email at mfarhad@waterboards.ca.gov.

A handwritten signature in black ink, appearing to read 'Mohammad Farhad', with a horizontal line underneath.

MOHAMMAD FARHAD
Water Resource Control Engineer
NPDES Compliance and Enforcement Unit

**COVID-19 Fiscal Relief for Special Districts
Allocations by Special District and County**

Alameda	\$ 9,085,375.00
Alameda County Mosquito Abatement District	\$ 50,241.00
Alameda County Resource Conservation District	\$ 548,642.00
Dublin San Ramon Services District	\$ 2,847,966.00
East Bay Regional Park District	\$ 564,092.00
Eden Township Healthcare District	\$ 1,250,663.00
Hayward Area Recreation and Park District	\$ 1,007,307.00
Livermore Area Recreation and Park District	\$ 1,223,460.00
Oro Loma Sanitary District (Alameda)	\$ 23,821.00
Union Sanitary District (Alameda)	\$ 1,569,183.00
Alpine	\$ 95,675.00
Bear Valley Water District	\$ 95,675.00
Amador	\$ 175,034.00
Jackson Valley Irrigation District	\$ 167,246.00
Volcano Community Services District	\$ 7,788.00
Butte	\$ 1,435,595.00
Durham Recreation and Park District	\$ 93,798.00
Feather River Recreation and Park District	\$ 278,252.00
Paradise Irrigation District	\$ 1,024,700.00
Paradise Recreation and Park District	\$ 38,845.00
Calaveras	\$ 696,638.00
Mark Twain Health Care District	\$ 347,687.00
San Andreas Recreation and Park District	\$ 6,532.00
Valley Springs Public Utility District	\$ 342,419.00
Colusa	\$ 42,059.00
Arbuckle Park and Recreation District	\$ 42,059.00
Contra Costa	\$ 3,329,425.00
Alamo-Lafayette Cemetery District	\$ 67,587.00
Central Contra Costa Sanitary District (Contra Costa)	\$ 996,177.00
Contra Costa Resource Conservation District	\$ 5,868.00
East Contra Costa Fire Protection District	\$ 24,296.00
Ironhouse Sanitary District (Contra Costa)	\$ 4,066.00
Kensington Police Protection and Community Services District	\$ 387,210.00
Mountain View Sanitary District (Contra Costa)	\$ 44,309.00
Pleasant Hill Recreation and Park District	\$ 1,314,137.00
Rodeo-Hercules Fire Protection District	\$ 276,087.00
West County Wastewater District (Contra Costa)	\$ 209,688.00
Del Norte	\$ 608,262.00
Crescent City Harbor District	\$ 486,658.00
Smith River Community Services District	\$ 121,604.00
El Dorado	\$ 1,387,027.00
Cameron Park Community Services District	\$ 193,788.00
El Dorado County Fire Protection District	\$ 114,115.00
El Dorado Hills Community Services District	\$ 212,314.00
El Dorado Irrigation District	\$ 550,390.00
Fallen Leaf Lake Community Services District	\$ 308,607.00
Tahoe Resource Conservation District	\$ 7,813.00

Jeff Gouveia

From: Hughes, Timothy - FS <timothy.hughes@usda.gov>
Sent: Monday, November 29, 2021 2:41 PM
To: Jeff Gouveia; Jardine, Casey -FS
Subject: RE: Lake Alpine Recreation Area

Jeff,

I apologize for waiting so long, but I was hoping that I would know the answer long before now. Our Contracting Organization has been informing us since mid-September that they will award this contract soon, but have yet to make any visible progress. It is still the intent of the Forest Service to award the contract to finish conversion of the Lake Alpine Recreation Area flush toilets to vault toilets, the exception being the flush toilets in Silvertip Campground which will continue to gravity flow back to Bear Valley. When this contract is awarded and we have tentative construction dates we will pass that information on.



Tim Hughes, PE
Forest Engineer

Forest Service
Stanislaus National Forest

p: 209-288-6329

c: 209-768-0402

timothy.hughes@usda.gov

19777 Greenley Road
Sonora, CA 95370

www.fs.fed.us



Caring for the land and serving people

From: Jeff Gouveia <Jeff.Gouveia@bvwd.ca.gov>
Sent: Tuesday, September 28, 2021 4:08 PM
To: Jardine, Casey -FS <casey.jardine@usda.gov>; Jeff Gouveia <Jeff.Gouveia@bvwd.ca.gov>
Cc: Hughes, Timothy - FS <timothy.hughes@usda.gov>
Subject: RE: Lake Alpine Recreation Area

Hi Tim,

Are there any updates on these proposed projects ?

Jeff Gouveia | General Manager |

Bear Valley Water District

441 Creekside Drive | PO Box 5027, Bear Valley, CA 95223 |

O: 209.753.2112 | C: 209.743.0836 | F: 209.753.6267

Jeff.Gouveia@bvwd.ca.gov | www.bvwd.ca.gov |





(/)

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[120-Day Statute of Limitations for New or Increased California Water and Sewer Rates \(/news-events/insights/2021/legal-alerts/09/120-day-statute-of-limitations-for-new-or-increase\)](/news-events/insights/2021/legal-alerts/09/120-day-statute-of-limitations-for-new-or-increase)

LEGAL ALERTS | SEP 23, 2021

120-Day Statute of Limitations for New or Increased California Water and Sewer Rates

SB 323 Signed Into Law and Effective Jan. 1

A challenge to new or increased California water or sewer rates must be brought within 120 days pursuant to Senate Bill 323, which was signed into law this week. SB 323 applies to rates for both retail and wholesale water and sewer fees adopted or increased after January 1, 2022. How will this impact local agencies across the state?

Agency Liability

Before SB 323 was signed and enacted, a plaintiff seeking to challenge water or sewer rates could generally bring an action for a refund for amounts paid within the preceding year, or could seek to invalidate the rates within 3 years of payment. This meant, for example, that an agency could be sued many years after water or sewer rates were adopted so long as those rates are still imposed, and even for some time after new rates are adopted.

SB 323 Specifics

With the enactment of SB 323, plaintiffs must bring a challenge to new or increased water or sewer rates within 120 days of the effective date or date of final passage, adoption, or approval of the ordinance or resolution adopting the water or sewer rate. Proposition 218 requires local agencies mail a notice of proposed new or increased water or sewer rate to property owners and tenants



directly responsible for the bill at least 45 days before the public hearing on the rate increases. In order to take advantage of SB 323's statute of limitations for retail water or sewer rates, the notice must include a statement that there is a 120-day statute of limitations for challenging the rates. No such requirement applies to wholesale rates.

SB 323 does not apply where there is another statute that establishes a more specific time or procedure for challenging water or sewer service rates. The statute of limitations also does not apply to legal actions arising from billing errors, such as overbilling resulting from incorrect implementation of otherwise validly approved water or sewer service rates.

Agency Relief

SB 323 is consistent with other statutes of limitations governing other types of fees, including capacity fees and certain types of electric fees. The perpetual risk of challenge causes uncertainty and prevents public agencies from effectively planning for the future, while placing vital public revenues at risk. Together, these statutes afford relief to agencies furnishing necessary public services by providing finality for legal exposure to rate challenges.

Disclosure: SB 323 was sponsored by the Association of California Water Agencies (ACWA) and authored by Sen. Anna Caballero (D-Salinas). BB&K Partner Lutfi Kharuf, who sits on ACWA's Legal Affairs Committee and authored this Legal Alert, assisted with this bill. Nearly 100 public agencies were part of a coalition in support of SB 323.

Disclaimer: BB&K Legal Alerts are not intended as legal advice. Additional facts, facts specific to your situation or future developments may affect subjects contained herein. Seek the advice of an attorney before acting or relying upon any information herein.

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Questions? Contact the author(s) of this Legal Alert listed above.



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Lutfi Kharuf (</our-team/lutfi-kharuf>)

PARTNER

(619) 525-1302 (tel:(619) 525-1302)

</our-team/lutfi-kharuf>



Joanna Gin (</our-team/joanna-gin>)

ASSOCIATE

(916) 551-2857 (tel:(916) 551-2857)

</our-team/joanna-gin>

LAKE ALPINE WATER COMPANY
BACKWASH RECOVERY SYSTEM
PRELIMINARY ENGINEERING REPORT - DRAFT

Date: December 18, 2021

By: Allyson Swain
 Joe Riess, P.E.



Contents

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Appendix A – Preliminary Design Drawings
 Appendix B – Preliminary Cost Estimate Details

1. Purpose

The purpose of this Preliminary Engineering Report (PER) is to describe the proposed improvements and provide a preliminary cost estimate for the addition of backwash recovery at the Lake Alpine Mutual Water Company's (LAWC) surface water treatment plant (SWTP). While the current system of discharging backwash water to the existing settling ponds for disposal via evaporation and percolation has a low operational cost and level of effort, it has a large footprint and does not maximize water conservation. Additionally, the LAWC desires to fill in the existing ponds to improve site access for a future granular activated carbon (GAC) project and improve site safety.

This project includes the planning and design of a new backwash recovery system that includes backwash equalization, solids removal using a lamella plate settling unit, pumping recycled water to the start of the treatment process, a new building to house the new equipment (and future GAC equipment), and all piping and controls necessary to interface with the existing system. In addition, this project also includes demolition of the chemical storage and feed room and filling in the two settling ponds. The chemical feed room is in poor condition and is cramped, and space will be provided in the new building for the relocated storage and feed systems.

2. Background

The LAWC water system is located along California Highway 4, approximately two miles west of Lake Alpine, in the western portion of Alpine County. The LAWC owns, operates, and maintains the potable community water system. The water system serves a population of approximately 2,650 through approximately 485 service connections (per 2018 Domestic Water Supply Permit).

The water system obtains its domestic water supply from Bear Lake, which is on an unnamed tributary of Bloods Creek, at the northern end of Bear Valley. The raw water is treated at the water system's SWTP, which includes the following treatment processes.

1. Oxygen addition at the lake intake (oxidize iron and manganese)
2. Chemical pretreatment using potassium permanganate (oxidize iron and manganese)
3. Filtration using two (2) Memcor 48CMF-L microfiltration units (remove particulates)
4. Granular activated carbon (reduce total organic carbon)
5. Sodium hypochlorite (onsite generated) addition (disinfection)
6. Limestone contact (increase hardness)
7. Soda ash addition (pH adjustment)
8. Phosphoric acid addition (corrosion control)
9. Settling ponds for backwash waste and building drains

The SWTP has permitted maximum capacity of 0.485 million gallons per day (MGD), or 337 gallons per minute (GPM). Contact time for disinfection inactivation is provided by an on-site 0.2 million-gallon (MG) clearwell, located upslope of the SWTP. The treated water is pumped from the clearwell to two distribution water storage tanks, located throughout the service area. The water storage tanks have a combined storage capacity of approximately 0.4 MG. Although the plant has a design capacity of 0.485 MGD, and each microfiltration unit has a capacity to treat 0.33 MGD, the system is typically operated at approximately 0.19 MGD (130 gpm) using only one microfiltration unit. At treatment flows greater than 0.19 MGD, there is insufficient contact time for disinfection if the clearwell level is low.

A process flow diagram of the existing water treatment system is shown in Figure 1.

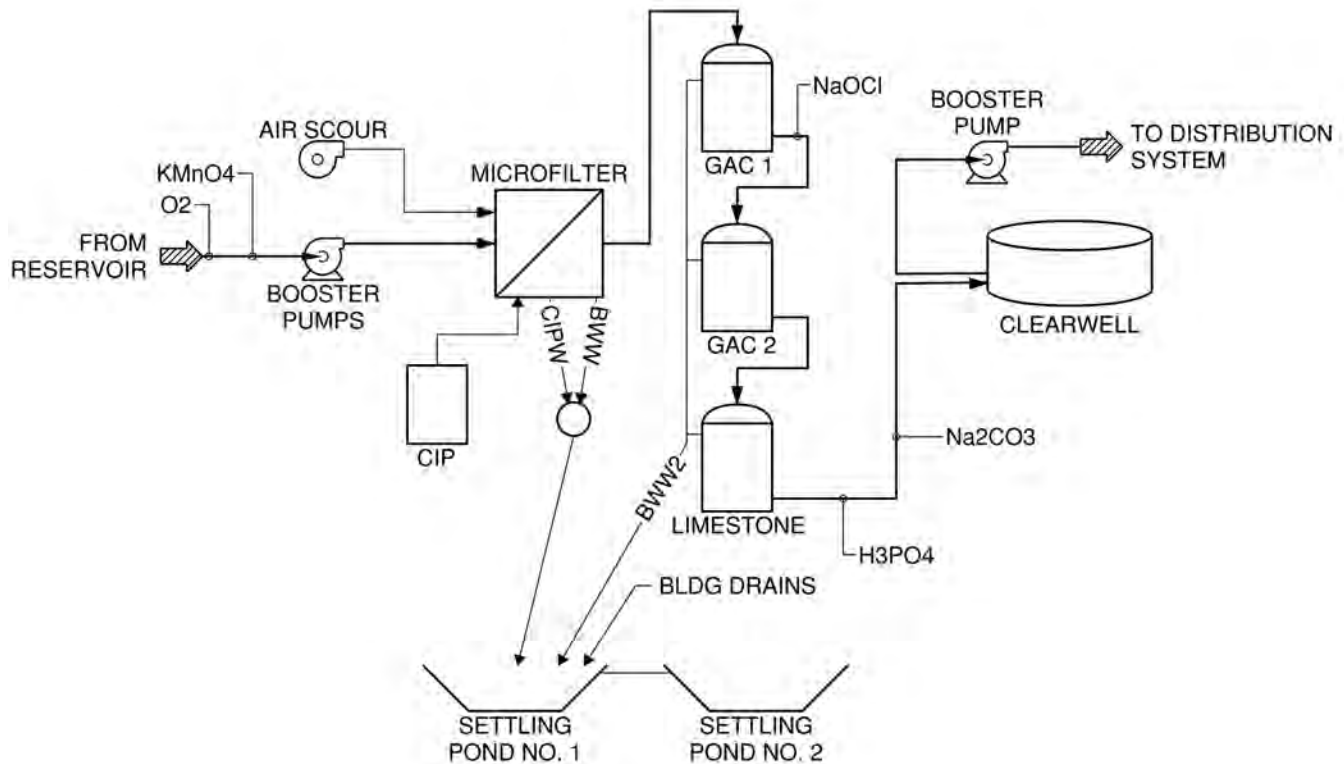


Figure 1. Existing Lake Alpine Water Treatment Plant Process Flow Diagram

Currently, the membranes are set to automatically backwash at a frequency of every 10,000 gallons of raw water treated, with turbidity adjustments to increase frequency with increasing raw water turbidity. The backwash sequence is approximately 3.5 minutes and consists of 90 seconds of draining of retentate to the backwash level, aeration and air assisted liquid backwash, then 1 minute of draining and sweeping before another minute for the unit to refill before it can return to normal service. Each backwash produces approximately 350 gallons of waste at a rate of 234 gpm. Backwash waste (BW) consists of concentrated raw water suspended particles and oxidized iron and manganese. The membranes also frequently perform pressure decay tests (PDT) which use between 325 and 700 gallons of water. Together, the backwash and PDT water makes up the wasted water from the membrane building.

When the membranes become fouled to the point that normal backwashing does not restore them to a typical clean state, they are cleaned in place (CIP) using a solution of citric acid and sodium hypochlorite. Performing a CIP is typically manually initiated as necessary, approximately once every 3 months. Waste from the CIP step (CIPW) is sent to the settling ponds.

In addition to the membrane backwash and CIP wastes, the limestone contactor and GAC vessels may be backwashed, with the resultant backwash waste (BWW2) sent via gravity to Settling Pond No. 1, although backwashing these vessels is not routine.

Typically, the plant wastes around 9% of the raw water feed on any given day for an average of 10,000 gallons plant waste per day. All of this wasted water, all identified as “backwash” regardless of the generation unit, goes

to the settling ponds where it is disposed via percolation and evaporation. There are no records of accumulated solids being removed from the ponds.

The backwash waste water quality will vary with the raw water quality. The more solids in the source water, the more solids will be in the backwash water. For reference, a composite sample was taken of the backwash waste on December 3, 2021. The measured turbidity of the sample was only 1.65 NTU indicating very few solids in the feed water. See below for photos showing the clarity of the composite sample.



Figure 2. Composite Backwash Waste Sample (12/3/2021; 1.65 NTU)

A summary of plant characteristics relevant to this project are shown in Table 1.

Table 1. Lake Alpine Treatment Plant Characteristics¹

Characteristic	Value
Water Source	Bear Lake
Flows	
Raw Water Peak Design Flow	0.485 MGD (337 GPM)
Raw Water Average Flow	0.187 MGD (130 GPM)
Water Quality	
Raw Water Average Turbidity	2.54 NTU
Finished Water Average Turbidity	0.04 NTU
Raw Water Average Manganese Conc.	0.1 mg/L
Average Manganese Removal	76.0%
Raw Water Average Iron Conc.	0.28 mg/L
Average Iron Removal	94.7%
Wasted Flow	
Average Percent Wasted	9%
Average Daily Waste Flow	12,000 GPD (8.3 GPM)
Full Capacity Average Daily Waste Flow	48,500 GPD (34 GPM)
Backwash Rate	350 GPM
Pressure Decay Test Waste Rate	350 -700 GPM

¹ Based on data provided by LAWC.

3. Proposed Improvements

The proposed backwash recovery system includes backwash equalization, solids removal using a lamella plate settling unit, pumping recycled water to the start of the treatment process, a new building to house the new equipment (and future GAC equipment), and all piping and controls necessary to interface with the existing system. The proposed system is designed to treat backwash waste generated when the plant is operating at its design capacity of 0.485 MGD while still being able to operate under current conditions (approximately half of capacity).

A process flow diagram of the water treatment system with proposed backwash recovery system is shown in Figure 3. See Appendix A for preliminary design drawings for the proposed project.

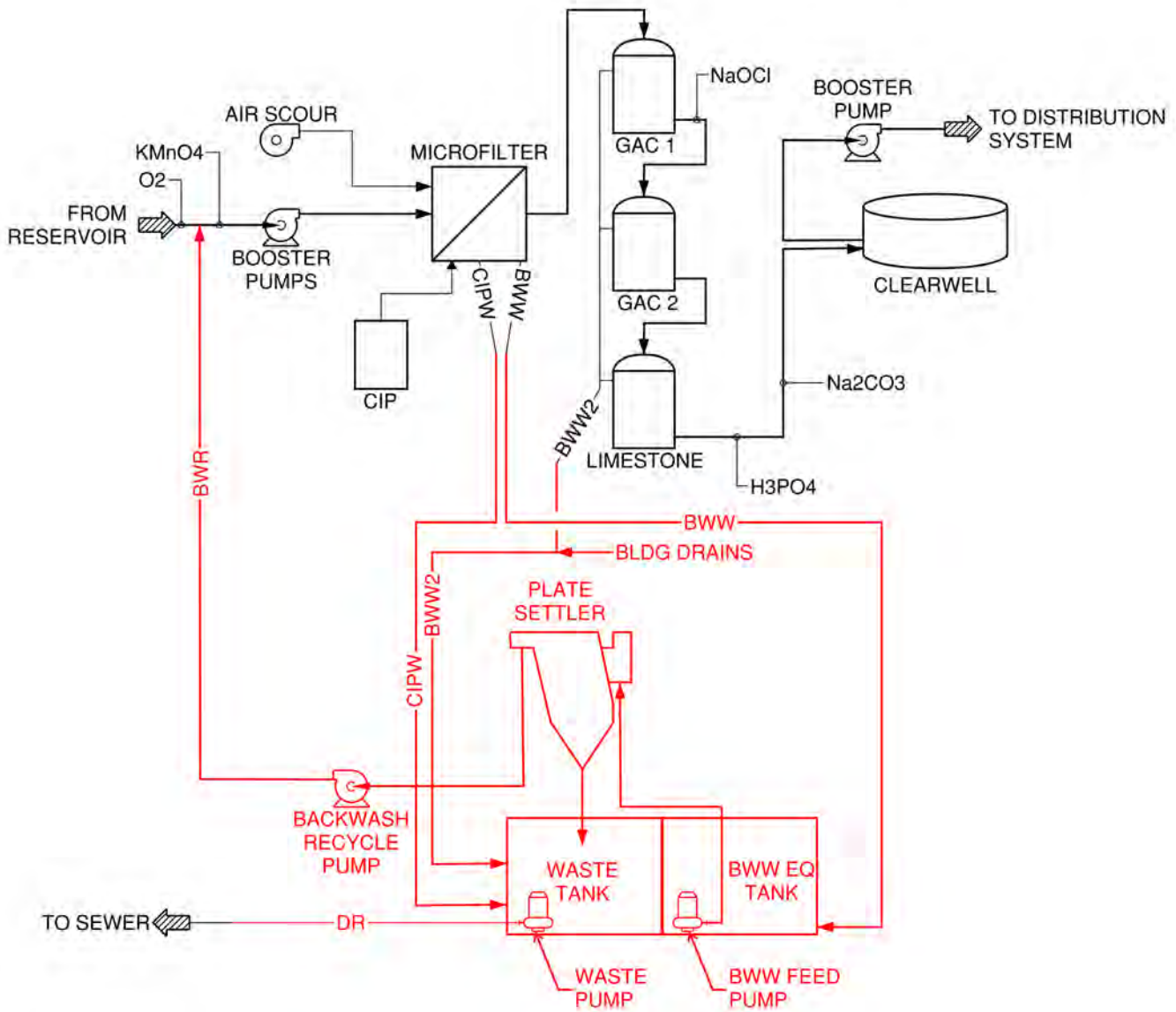


Figure 3. Lake Alpine Water Treatment Plant Process Flow Diagram with Proposed Backwash Recovery

3.1. Backwash Waste Equalization Tank and Feed Pump

Designing a settling system to directly process the instantaneous flows from the various sources of backwash would require the system to be sized for the highest anticipated flow rate (as high as 700 gpm). To minimize the size of the treatment equipment, equalization storage is proposed to dampen the flow pulses and allow the recovery system to operate at a steady, average flow rate of approximately 34 gpm. The minimum required equalization tank volume, based on the expected wasting for the plant operating at full capacity is approximately 1,000 gallons.

Since backwash wastes flow to the settling pond via gravity, and existing piping is approximately 4.5 feet below grade, the new backwash equalization (BWW EQ) tank will need to be constructed below grade and be deeper than the existing piping to be intercepted. The proposed BWW EQ Tank will be constructed of cast-in-place concrete in the area currently occupied by Settling Pond No. 1, and integral to the new building foundation along with the new Waste Tank, described below. The proposed tank will be approximately 6.5'x6'x9.5' deep, providing a total volume of 2,780 gallons. With 2 feet of freeboard (from top of building slab) and a minimum operating depth of 1 ft, the usable volume is 1,900 gallons.

The BWW EQ Tank will have a hinged aluminum access hatch cast into the top to provide access into the tank. A small submersible feed pump (34 gpm, approx. 0.5 Hp) will be installed in the tank to pump backwash waste to the plate settler at a rate not to exceed 10% of the raw water flow to the treatment process. Under current operating conditions, the pump would, therefore, operate at no more than 13 gpm. At maximum design operating conditions, the pump would operate at no more than 34 gpm. The proposed pump will be constant speed, and a throttling valve and flowmeter will be used to set the desired flow rate. Alternatively, a variable frequency drive (VFD) could be used but since flows through the treatment process are relatively constant, the added cost and complexity may not be warranted.

The BWW Feed Pump will be controlled by float switches in the BWW EQ Tank. A High float level will start the pump and a Low float level will stop the pump. A High-High float level will generate an alarm indicating a problem with the backwash reclaim system (and imminent overflow) and shut down the treatment plant. A shelf-spare pump will be provided for redundancy.

3.2. Plate Settler

Inclined plate settlers are commonly referred to as lamella clarifiers or lamella settlers. Unlike traditional clarifiers, flow is upwards between a pack of inclined plates commonly between 40 and 65 degrees. The solids fall to the plate surface by gravity where they slide down to a sludge collection system in a bottom hopper. See Figure 4 for a graphic of the proposed settler and flow directions for liquid and solids. The incline on plate settlers allows the plates to self-clean and reduce operational volume while maintaining required settling area. Lamella settlers also commonly include a feed box with rapid mix and flocculation to enhance settling by using a coagulant. Coagulant addition is not anticipated to be required at this time based on the limited water quality provided. However, provisions to provide coagulation will be included if it becomes necessary.

Flow equalization described above will allow the settler to be sized for the full plant capacity daily average backwash rate of 34 GPM, which coincides with 10% of the rated plant capacity. At current plant operation, the settler would run normally but at a much lower flow (8.3 gpm), which will result in additional settling time.

The settler will send underflow (accumulated solids from bottom hopper) to the new Waste Tank either continuously or periodically via an automated valve. Preliminary sizing by one settler manufacturer (Parkson) assumed a continuous underflow rate of 0.6 to 1.2 gpm. However, this assumes a feed quality of 200 mg/L suspended solids and operating at 34 gpm. The feed solids concentration is likely much lower than 200 mg/L and the plant will be operating closer to 8.3 gpm. The underflow rate is expected to be much lower at less than 0.3 gpm (432 GPD).

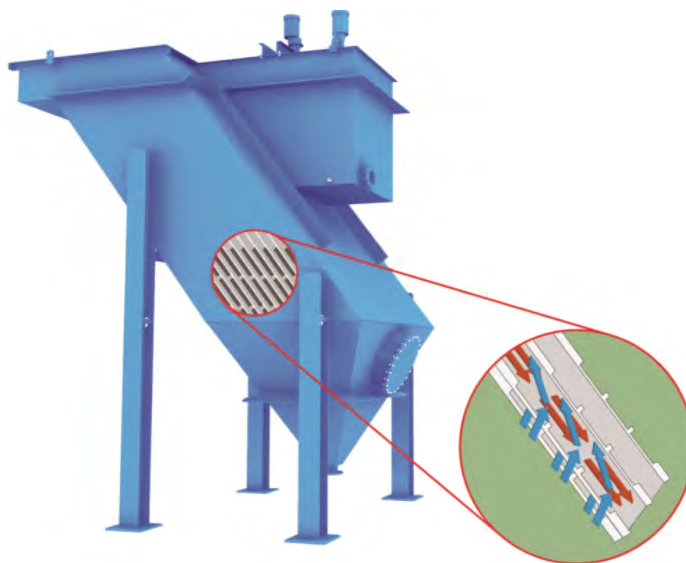


Figure 4. A Parkson Lamella Clarifier (Solids flow shown in red with liquid flow shown in blue)

For this project, quotes were requested from three leading manufacturers for plate settlers: Parkson, Westech and MRI. Based on these quotes, the Parkson system was the lowest cost and had the most compact layout that best fit the project constraints.

3.3. Backwash Recycle Pump

The overflow (settled water) from the Plate Settler will flow to the new backwash recycle (BWR) pump (34 gpm, approx. 1 Hp), which will pump flow back to the head of the plant upstream of the permanganate via 2" PVC piping. The BWR Pump will be sized for 34 gpm to accommodate peak design flows, but it will operate closer to 8.3 gpm to pace what the BWW Feed Pump is supplying to the Plate Settler. The BWR Pump will be controlled by a VFD to maintain water level in the Plate Settler. Alternatively, a small feed tank will be provided that the pump will draw from and allow it to be operated with float switches, like the BWW Feed Pump. A flowmeter on the discharge of the pump will be used to monitor and record recycle flow rate and volume, which will be required by the revised operating permit.

A new turbidimeter will need to be installed on the discharge side of the BWR Pump to monitor the water quality of the water being recycled. The turbidity signal will be tied into the existing plant monitoring and control system to log the data and provide an alarm and shut down the BWW Feed Pump if BWR turbidity exceeds 2 NTU.

3.4. Residuals Disposal

The expected underflow of the settling system is approximately 0.3 GPM (432 GPD) for current conditions and 0.6 GPM (864 GPD) for full plant capacity. This underflow will flow by gravity from the Plate Settler to a new Waste Tank. The proposed Waste Tank will be constructed of cast-in-place concrete in the area currently occupied by Settling Pond No. 1, and integral to the new building foundation along with the new BWW EQ Tank, described above. The proposed tank will be approximately 7.3'x6'x9.5' deep, providing a total volume of 3,100 gallons. In addition to received underflow from the Plate Settler, all plant drains currently routed to the settling ponds will be routed to the new Waste Tank (except for backwash waste from the microfiltration system).

A small submersible pump will be installed to pump from the Waste Tank to the existing sewer to allow non-backwash waste flows to be equalized before conveyance to the sewer. The new Waste Pump will be sized to

pump up to 5 gallons per minute, but a throttling valve will be provided to allow the pump to operate at a lower flow to optimize equalization volume and reduce peak flows to the sewer.

3.5. New Treatment Building

The new treatment processes described above will be housed in a new 15'-4" x 30'-0" x 22' tall building. The building will need to be tall enough to accommodate the Plate Settler plus clearance for plate removal, and future GAC equipment. Considering the large amount of snow received at the site, winter access, snow shedding from the roof, snow removal will need to be factored into the building design. The proposed building will be constructed south of the existing Treatment Building in the location of the existing chemical room and Settling Pond No. 1. The room for the backwash recovery and GAC systems will have a high ceiling, and the roofline will be similar to, but higher than, the west side of the existing treatment building. A covered porch with inward opening steel door will be provided for primary access to the new building. A 10'Wx12'H rollup door will be provided on the east side for equipment installation and maintenance (e.g. GAC exchanges). A small access door will be located over the main entrance door, above the covered porch, with a ladder down into the room for access during the winter when snow is several feet deep.

A new 8'x16' chemical storage and feed room will be added on to the existing building between the new building and existing rollup door. This room will be connected to the new building by an opening in the wall, and access will be provided by an exterior door.

The new building and addition will be constructed similar to the existing treatment building (wooden stud framing and sizing and metal roof) to match the existing architecture. Due to the height of the building (approximately 22 ft at the peak), metal framing may be used partially or completely for the new building.

See Drawings A-01 and A-02 in Appendix A for preliminary architectural drawings of the proposed building.

3.6. Backwash Settling Pond Decommissioning

The two existing unlined settling ponds currently accept waste flows from the membrane backwash, membrane pressure decay tests, membrane CIP, limestone contactor backwash, GAC vessel backwash and various building drains. All flows go to Settling Pond No.1, and an overflow pipe connects this pond with Settling Pond No. 2. Backwash and CIP waste from the Microfiltration Building flow by gravity via 8" PVC (C900) piping to a manhole. From there, flows combine into a single 8" PVC pipe to the settling pond. The ponds will be decommissioned and filled in to allow construction of the new backwash recovery system and improve site safety.

Samples from sediment within each pond should be taken and sent to an approved laboratory to analyze for hazardous materials. Although not anticipated to be present, the presence of hazardous materials will need to be disclosed in the Bid Documents and the contractor made aware so the requirements for removal and disposal are clear. In this report, for cost estimating purposes it is assumed that sediment in the ponds is not hazardous and can be covered with import or native fill.

The northern pond (Settling Pond No. 1) has a surface area of approximately 1,100 square feet and the southern pond (Settling Pond No. 2) has a surface area of approximately 1,500 square feet. The ponds range in depth from 7 to 9 feet to ground surface. For purposes of this report and cost estimating, the average estimated depth to fill each pond is 3.5 feet (accounts for side slopes).

The backwash ponds will have to be decommissioned in two phases. First, all flows to Settling Pond No. 1 will be temporarily routed to Settling Pond No. 2 and the manhole serving BWB and CIPW will be demolished. The existing 6" dam seem drain piping will be rerouted (in coordination with dam owner), and the existing manhole associated with it demolished along with tree in the vicinity. Silt fences or other BMPs will be installed at the overflow outlet from Settling Pond No. 2 to ensure any overflows from this pond receive treatment before

flowing into the creek. Utility relocation and pipe tie-ins will need to be coordinated with plant operations to ensure that water production and delivery is not affected.

After the utilities are relocated, the new Backwash Recovery Building will be constructed in its place. Part of the existing pond volume will be taken up by the new BWW EQ and Waste Tanks. The remainder will be filled using engineered (or structural) fill as recommended by the project's geotechnical report.

After the new backwash recovery system is constructed, the BWW piping from the membrane system will be connected to the new BWW EQ Tank, and all other utilities routed to Settling Pond No. 2 will be connected to the new Waste Tank.

3.7. Site Paving

Following completion of the new building and decommissioning of Settling Pond No. 2, the area north of Pond 2 will be compacted and paved to provide improved access for operation and maintenance vehicles, plus GAC delivery vehicles.

4. Permitting

This project is anticipated to require building permit from Alpine County. Additionally, the LAWC may be pursuing project funding from the State of California (e.g. State Revolving Fund or DWR Drought Assistance) which will require compliance with the California Environmental Quality Act (CEQA). A Categorical Exemption will likely be required with either the County or State acting as the Lead Agency.

The LAWC's Domestic Water Supply Permit will need to be modified to include the new treatment process, which will also require the plant's operations plan to be updated. The Division of Drinking Water will need to be coordinated with early on to ensure that the proposed project is acceptable and can be permitted.

5. Construction Phasing

Construction scheduling and phasing of the proposed project will need to factor in when funding will be available, lead times for equipment, allowable working season, and keeping the plant operational. The site is typically only accessible in the late spring to late fall due to snow, and the plant may not be taken offline for more than a few days, depending on demand. Major system tie-ins that require prolonged plant shutdown should be done after Labor Day.

The general construction phasing for this project will be as follows:

1. Ensure long-lead time equipment (Plate Settler) is purchased and submittals are approved far enough in advance to ensure delivery when required. This can be accomplished by:
 - a. pre-purchasing Plate Settler, or
 - b. pre-negotiating Plate Settler pricing and including in Bid Documents, or
 - c. including in Bid Documents as contractor's responsibility, if time allows.
2. Pothole to determine location, size, slope and material of all utilities in the work area.
3. Relocate existing utilities draining to Settling Pond No. 1 into Settling Pond No. 2.
4. Re-route existing dam seep piping and demolish existing manhole. Work on this piping will need to be coordinated with the dam owner.
5. Route existing building drains into existing sanitary sewer.

6. Construct new Backwash Recovery Building and backfill (including filling in of Settling Pond No. 1) install equipment and perform initial startup and testing.
7. Route BWW piping to new BWW EQ Tank.
8. Route CIP piping, Membrane Building Drain and other miscellaneous process drains to new Waste Tank
9. Startup and test new equipment.
10. Fill in Settling Pond No. 2
11. Pave site.

6. Estimated Project Costs

The estimated construction cost for this project is \$671,000 (Table 2). This estimate has an expected accuracy with a low range of -10% to -20% and a high range of +10% to +30% (Class 3 estimate). Including engineering design and services during construction and estimates for permitting, the total project cost is estimated at \$777,900.

When the future GAC project is included (additional \$403,750), the combined total of the two projects is \$1,181,650.

Table 2. Estimated Project Costs

Item	Cost
A-Engineering Design and Services During Construction ¹	\$ 86,900
B-Building Permitting (Alpine County Plan Check and Permit Fees)	\$ 20,000
C-Construction Cost ²	\$ 671,000
Total Estimated Project Cost	\$ 777,900

Notes:

1. Water Works Engineers Task Order 2, September 21, 2021.
2. Class 3 estimate. Includes 30% design contingency for undefined items.

Cost with GAC Project

Item	Cost
Backwash Recycle Project	\$ 777,900
GAC Project ¹	\$ 403,750
Total Estimated Cost of Combined Projects	\$ 1,181,650

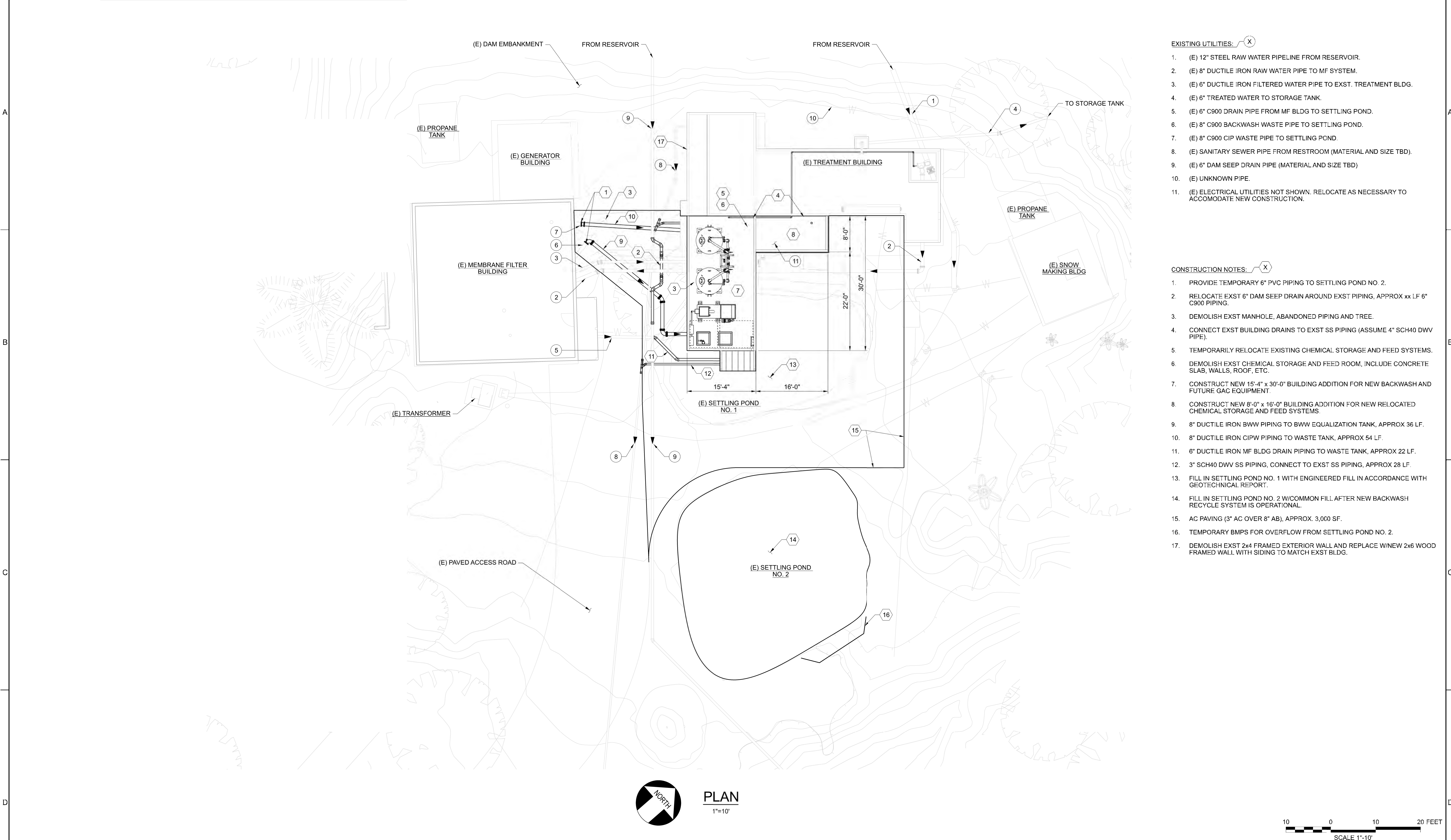
Notes:

1. Updated GAC project cost to consider installation in new BWR Building, removed earthwork.

See Appendix B for detailed breakdown of costs for this project, including budgetary quote from Parkson for Plate Settler.

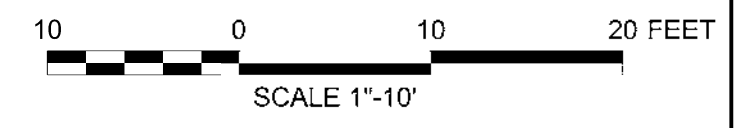
Appendix A – Preliminary Design Drawings

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- EXISTING UTILITIES:** (X)
- (E) 12" STEEL RAW WATER PIPELINE FROM RESERVOIR.
 - (E) 8" DUCTILE IRON RAW WATER PIPE TO MF SYSTEM.
 - (E) 6" DUCTILE IRON FILTERED WATER PIPE TO EXST. TREATMENT BLDG.
 - (E) 6" TREATED WATER TO STORAGE TANK.
 - (E) 6" C900 DRAIN PIPE FROM MF BLDG TO SETTLING POND.
 - (E) 8" C900 BACKWASH WASTE PIPE TO SETTLING POND.
 - (E) 8" C900 CIP WASTE PIPE TO SETTLING POND.
 - (E) SANITARY SEWER PIPE FROM RESTROOM (MATERIAL AND SIZE TBD).
 - (E) 6" DAM SEEP DRAIN PIPE (MATERIAL AND SIZE TBD)
 - (E) UNKNOWN PIPE.
 - (E) ELECTRICAL UTILITIES NOT SHOWN. RELOCATE AS NECESSARY TO ACCOMMODATE NEW CONSTRUCTION.

- CONSTRUCTION NOTES:** (X)
- PROVIDE TEMPORARY 6" PVC PIPING TO SETTLING POND NO. 2.
 - RELOCATE EXST 6" DAM SEEP DRAIN AROUND EXST PIPING, APPROX xx LF 6" C900 PIPING.
 - DEMOLISH EXST MANHOLE, ABANDONED PIPING AND TREE.
 - CONNECT EXST BUILDING DRAINS TO EXST SS PIPING (ASSUME 4" SCH40 DWV PIPE).
 - TEMPORARILY RELOCATE EXISTING CHEMICAL STORAGE AND FEED SYSTEMS.
 - DEMOLISH EXST CHEMICAL STORAGE AND FEED ROOM, INCLUDE CONCRETE SLAB, WALLS, ROOF, ETC.
 - CONSTRUCT NEW 15'-4" x 30'-0" BUILDING ADDITION FOR NEW BACKWASH AND FUTURE GAC EQUIPMENT.
 - CONSTRUCT NEW 8'-0" x 16'-0" BUILDING ADDITION FOR NEW RELOCATED CHEMICAL STORAGE AND FEED SYSTEMS.
 - 8" DUCTILE IRON BWV PIPING TO BWV EQUALIZATION TANK, APPROX 36 LF.
 - 8" DUCTILE IRON CIPW PIPING TO WASTE TANK, APPROX 54 LF.
 - 6" DUCTILE IRON MF BLDG DRAIN PIPING TO WASTE TANK, APPROX 22 LF.
 - 3" SCH40 DWV SS PIPING, CONNECT TO EXST SS PIPING, APPROX 28 LF.
 - FILL IN SETTLING POND NO. 1 WITH ENGINEERED FILL IN ACCORDANCE WITH GEOTECHNICAL REPORT.
 - FILL IN SETTLING POND NO. 2 W/COMMON FILL AFTER NEW BACKWASH RECYCLE SYSTEM IS OPERATIONAL.
 - AC PAVING (3" AC OVER 8" AB), APPROX. 3,000 SF.
 - TEMPORARY BMPS FOR OVERFLOW FROM SETTLING POND NO. 2.
 - DEMOLISH EXST 2x4 FRAMED EXTERIOR WALL AND REPLACE W/NEW 2x6 WOOD FRAMED WALL WITH SIDING TO MATCH EXST BLDG.



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J. RIESS
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APPROVED
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LAKE ALPINE WATER COMPANY
BACKWASH RECYCLE SYSTEM
PRELIMINARY DESIGN
BEAR VALLEY, CALIFORNIA

CIVIL
SITE PLAN

DATE DECEMBER 2021
PROJECT NO. 21-093
DRAWING NO. C-1
SHEET NO. XXX

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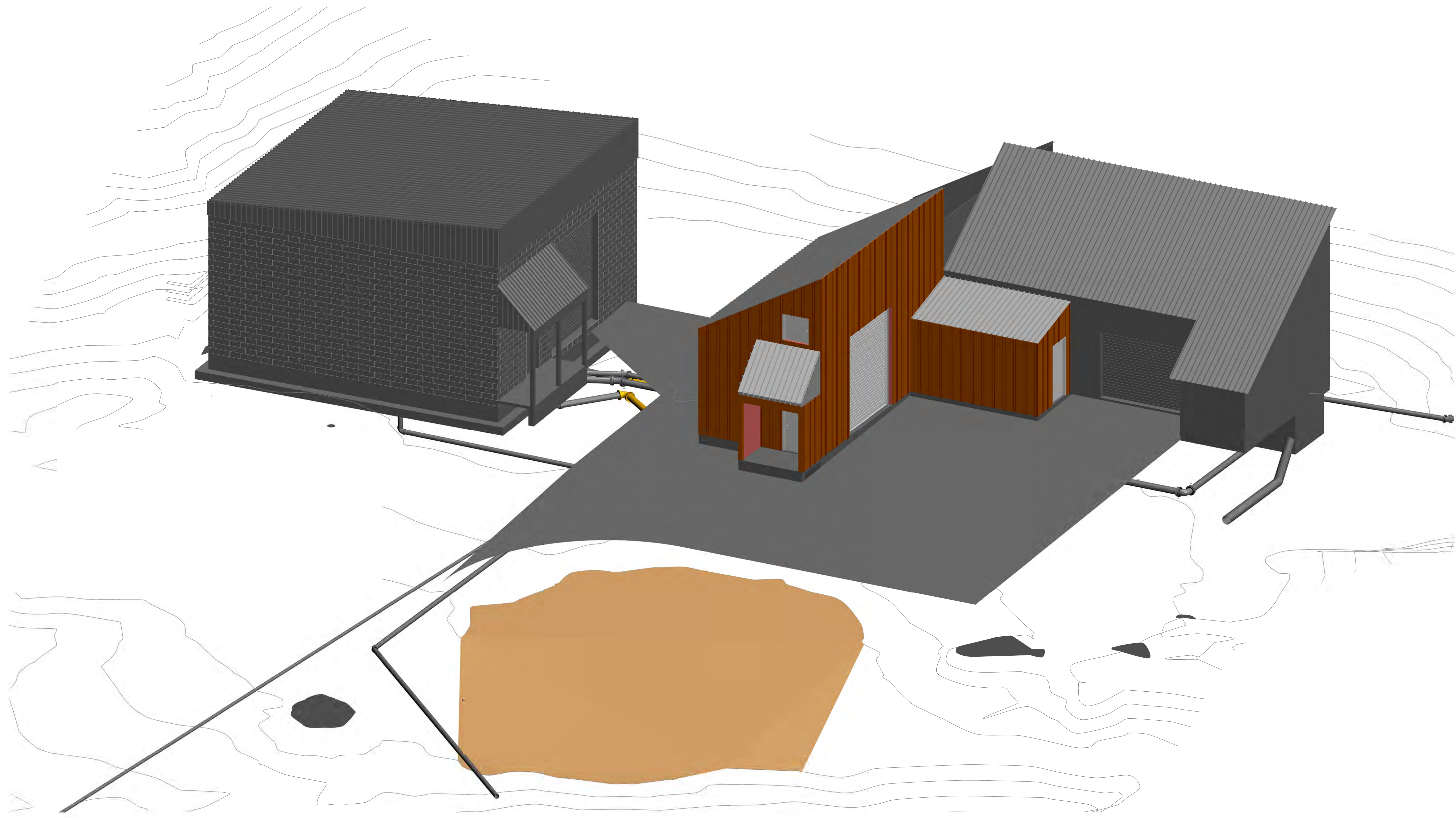
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REDDING, CA

LAKE ALPINE WATER COMPANY

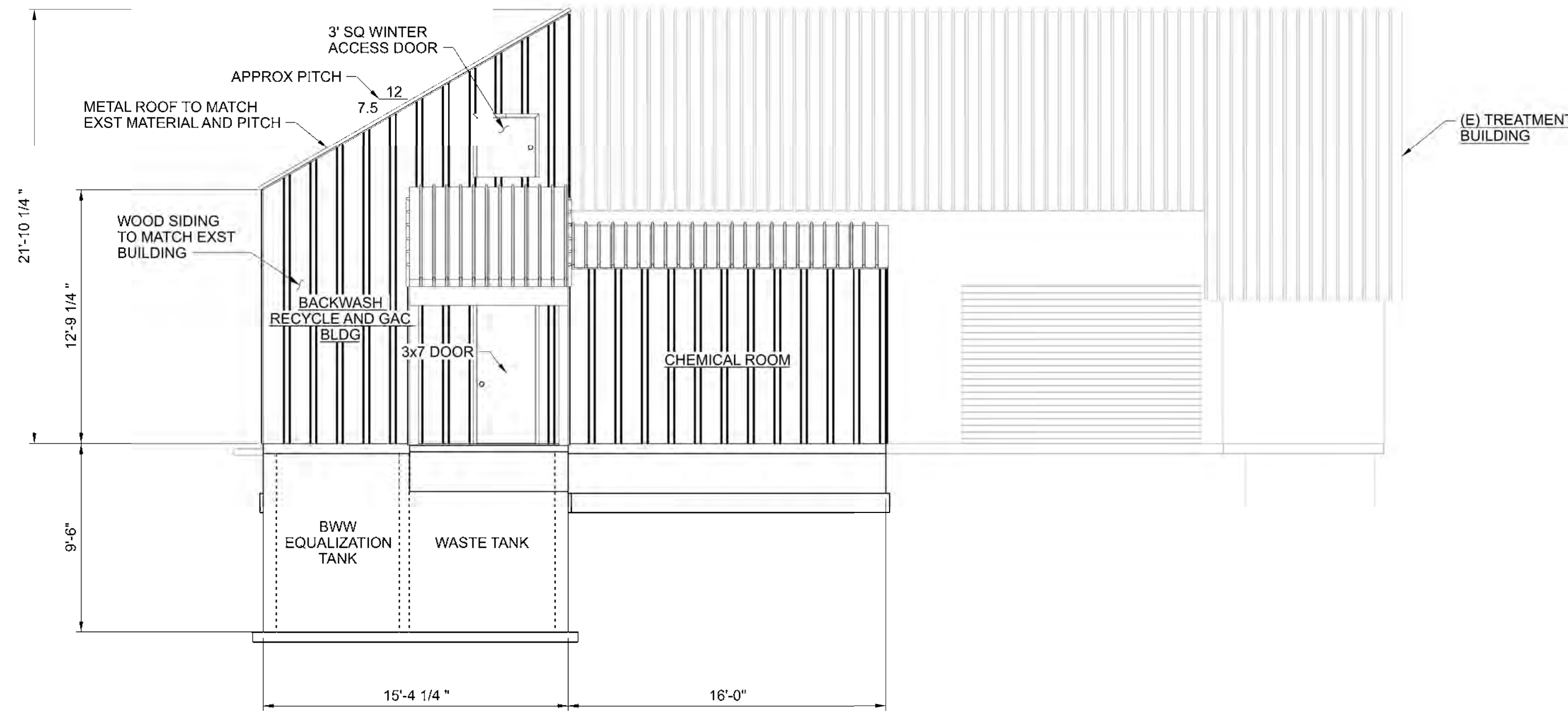
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BEAR VALLEY, CALIFORNIA

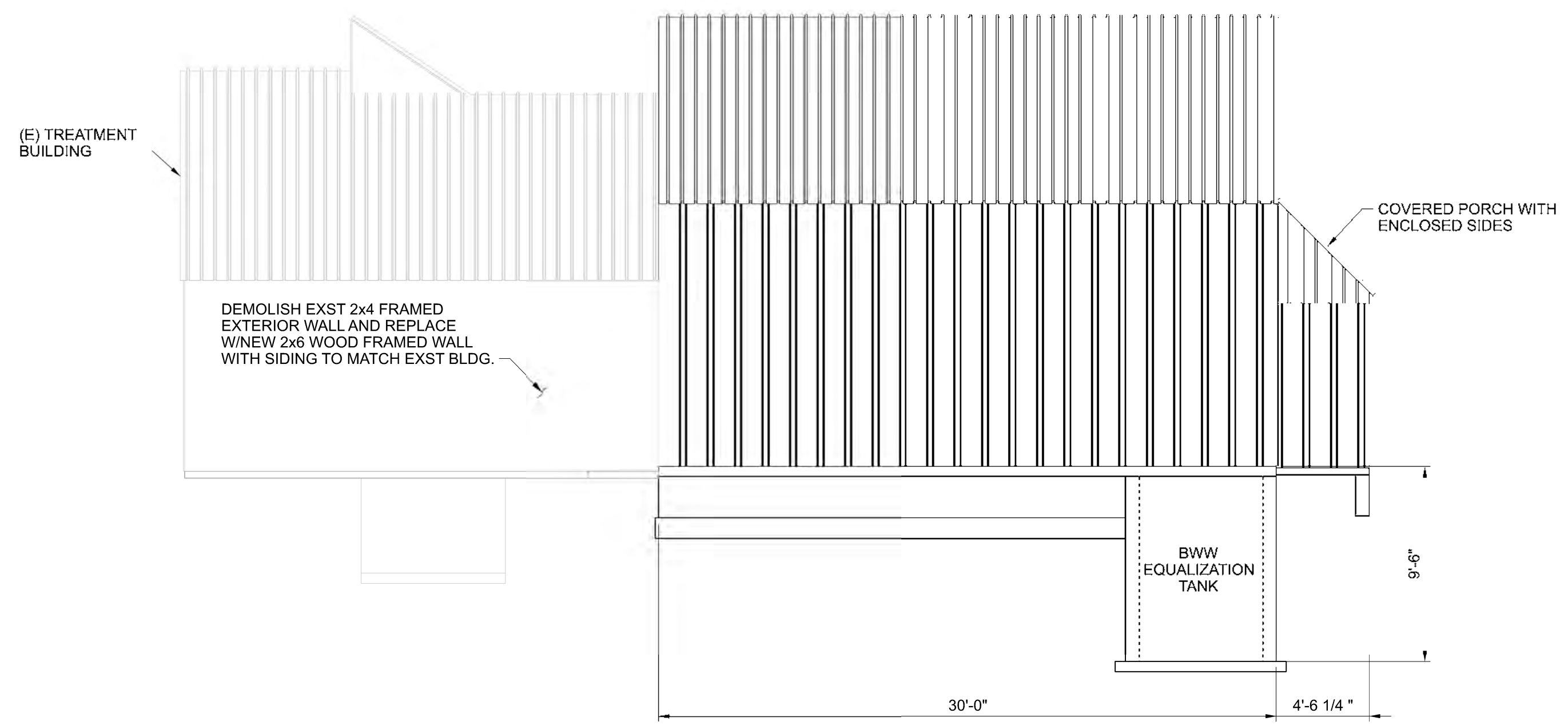
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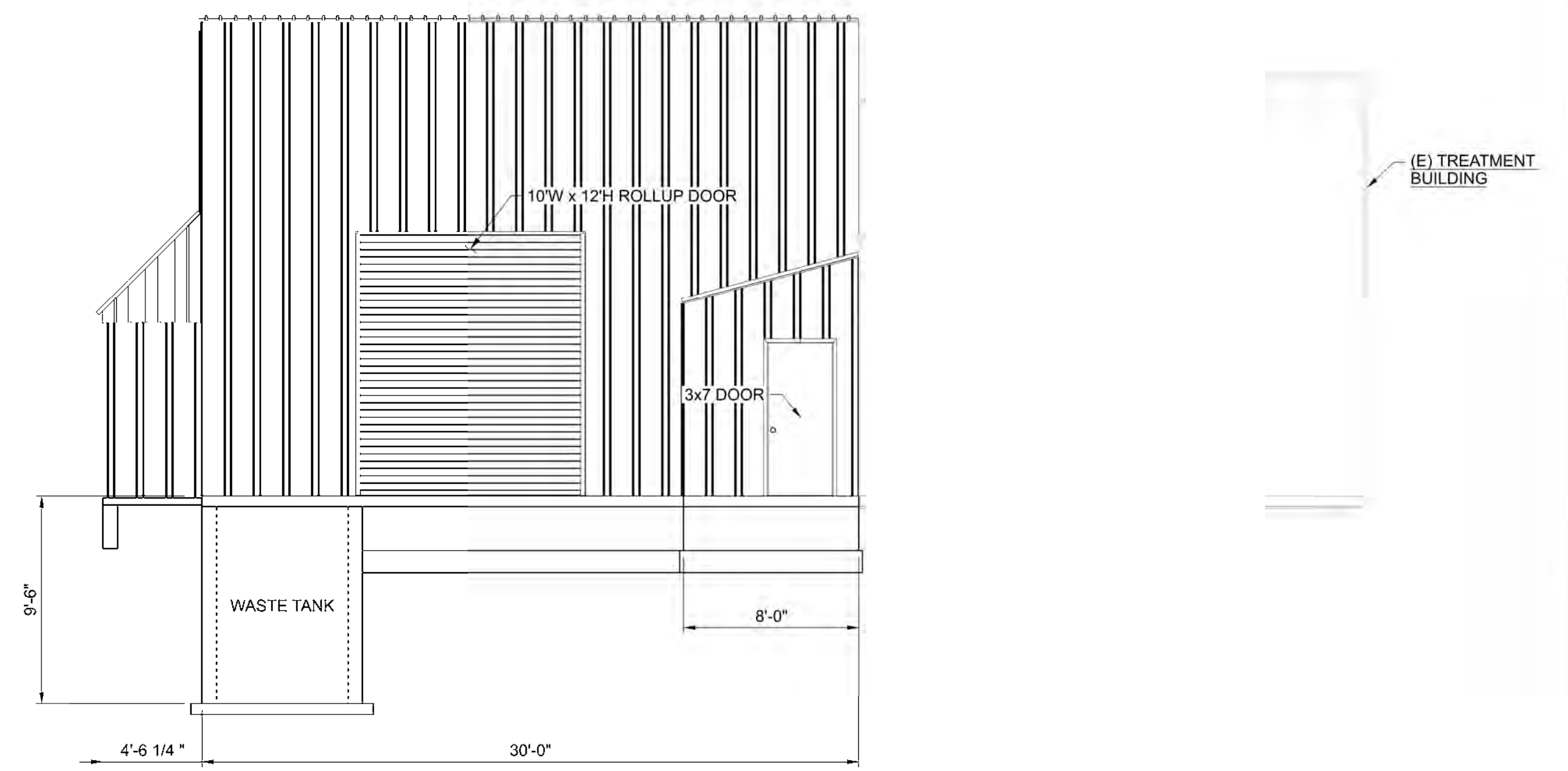
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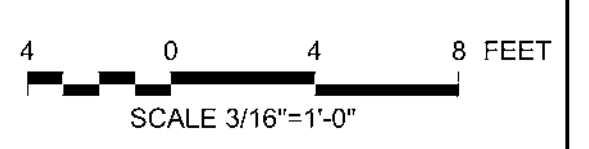
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2 WEST ELEVATION
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3 EAST ELEVATION
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REDDING, CA

LAKE ALPINE WATER COMPANY
BACKWASH RECYCLE SYSTEM
PRELIMINARY DESIGN
BEAR VALLEY, CALIFORNIA

ARCHITECTURAL
BACKWASH RECYCLE BUILDING
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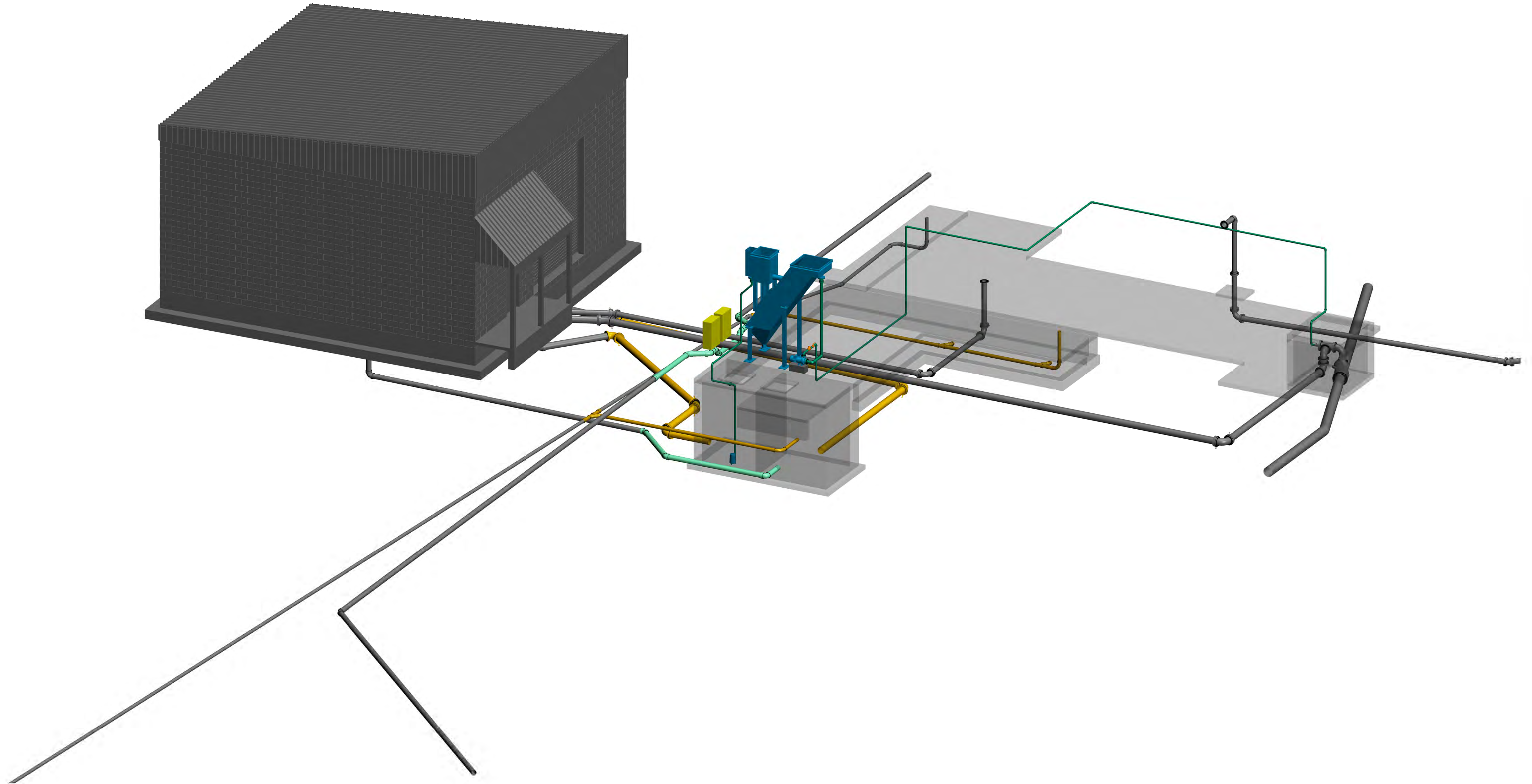
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GENERAL NOTES:
 1. WALLS, DOORS AND ROOFING AT EXISTING TREATMENT BUILDING NOT SHOWN FOR ILLUSTRATIVE PURPOSES.



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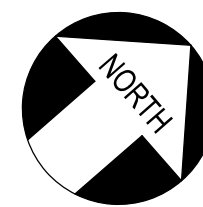
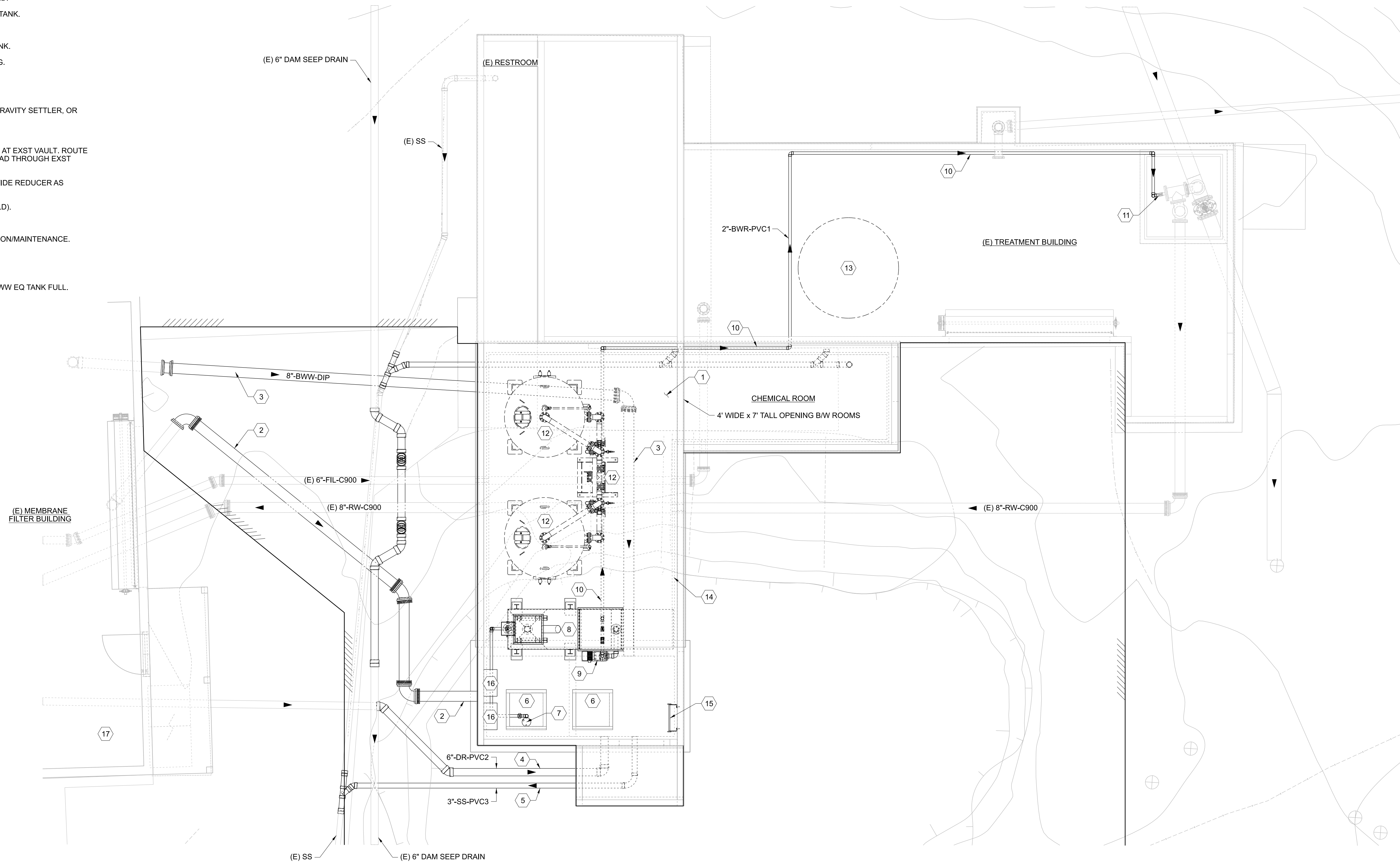
LAKE ALPINE WATER COMPANY
 BACKWASH RECYCLE SYSTEM
 PRELIMINARY DESIGN
 BEAR VALLEY, CALIFORNIA

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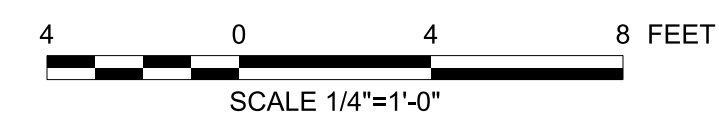
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CONSTRUCTION NOTES: 

1. TEMPORARILY RELOCATE EXISTING CHEMICAL STORAGE AND FEED SYSTEMS. REINSTALL IN NEW CHEMICAL ROOM AFTER COMPLETED.
2. 8" DUCTILE IRON BWW PIPING TO BWW EQUALIZATION TANK.
3. 8" DUCTILE IRON CIPW PIPING TO WASTE TANK.
4. 6" DUCTILE IRON MF BLDG DRAIN PIPING TO WASTE TANK.
5. 3" SCH40 DWV SS PIPING, CONNECT TO EXST SS PIPING.
6. ACCESS HATCH TO VAULT, BELOW.
7. SUBMERSIBLE SETTLER FEED PUMP, 40 GPM.
8. LAMELLA PLATE SETTLER, PARKSON LAMELLA EcoFlo GRAVITY SETTLER, OR EQUAL.
9. RECYCLE PUMP, 40 GPM.
10. 2" BACKWASH RECYCLE PIPING TO RAW WATER PIPING AT EXST VAULT. ROUTE BENEATH SLAB OF NEW BLDG, AND EXPOSED/OVERHEAD THROUGH EXST BLDG.
11. CONNECT TO EXST BALL VALVE, ASSUMED 1 1/2". PROVIDE REDUCER AS NECESSARY.
12. FUTURE GAC SYSTEM (2 EA 6-FT DIA TANKS W/MANIFOLD).
13. FUTURE LIMESTONE CONTACTOR (7-FT DIA).
14. 10'W x 12'H ROLLUP DOOR FOR EQUIPMENT INSTALLATION/MAINTENANCE.
15. LADDER ACCESS TO WINTER DOOR.
16. CONTROL PANELS FOR NEW EQUIPMENT.
17. MODIFY MF CONTROL SYSTEM TO DISABLE PLANT IF BWW EQ TANK FULL.



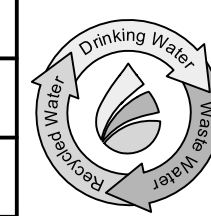
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**WATERWORKS
ENGINEERS**

REDDING, CA

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LAKE ALPINE WATER COMPANY
BACKWASH RECYCLE SYSTEM
PRELIMINARY DESIGN
BEAR VALLEY, CALIFORNIA

MECHANICAL
**BACKWASH RECYCLE BUILDING
PLAN**

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PROJECT NO.
21-093
DRAWING NO.
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Appendix B – Preliminary Cost Estimate Details

Summary of Construction, Permitting, Easements and Construction Services Costs

WWE Project No. 21-093
Project Name: Lake Alpine Water Company Backwash Reycle System Design
Design Stage: Preliminary
Prepared By: Joe Riess, P.E.
Prepared Date: 12/18/2021



Item	Cost
A-Engineering Design and Services During Construction ¹	\$ 86,900
B-Building Permitting (Alpine County Plan Check and Permit Fees)	\$ 20,000
C-Construction Cost ²	\$ 671,000
Total Estimated Project Cost	\$ 777,900

Notes:

1. Water Works Engineers Task Order 2, September 21, 2021.
2. Class 3 estimate. Includes 30% design contingency for undefined items.

Cost with GAC Project

Item	Cost
Backwash Recycle Project	\$ 777,900
GAC Project ¹	\$ 403,750
Total Estimated Cost of Combined Projects	\$ 1,181,650

Notes:

1. Updated GAC project cost to consider installation in new BWR Building, removed earthwork.

ESTIMATE CLASS	Primary Characteristic	Secondary Characteristic			
	LEVEL OF PROJECT DEFINITION Expressed as % of complete definition	END USAGE Typical purpose of estimate	METHODOLOGY Typical estimating method	EXPECTED ACCURACY RANGE Typical variation in low and high ranges [a]	PREPARATION EFFORT Typical degree of effort relative to least cost index of 1 [b]
Class 5	0% to 2%	Concept Screening	Capacity Factored, Parametric Models, Judgment, or Analogy	L: -20% to -50% H: +30% to +100%	1
Class 4	1% to 15%	Study or Feasibility	Equipment Factored or Parametric Models	L: -15% to -30% H: +20% to +50%	2 to 4
Class 3	10% to 40%	Budget, Authorization, or Control	Semi-Detailed Unit Costs with Assembly Level Line Items	L: -10% to -20% H: +10% to +30%	3 to 10
Class 2	30% to 70%	Control or Bid/ Tender	Detailed Unit Cost with Forced Detailed Take-Off	L: -5% to -15% H: +5% to +20%	4 to 20
Class 1	50% to 100%	Check Estimate or Bid/Tender	Detailed Unit Cost with Detailed Take-Off	L: -3% to -10% H: +3% to +15%	5 to 100

- Notes: [a] The state of process technology and availability of applicable reference cost data affect the range markedly. The +/- value represents typical percentage variation of actual costs from the cost estimate after application of contingency (typically at a 50% level of confidence) for given scope.
- [b] If the range index value of "1" represents 0.005% of project costs, then an index value of 100 represents 0.5%. Estimate preparation effort is highly dependent upon the size of the project and the quality of estimating data and tools.

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Construction Cost Estimate-PRELIMINARY

WWE Project No. 21-093
Project Name: Lake Alpine Water Company Backwash Reycle System Design
Design Stage: Preliminary
Prepared By: Joe Riess, P.E.
Prepared Date: 12/18/2021



Division	Division Name	Total
00 00 00	Procurement and Contracting Requirements	\$ -
01 00 00	General Requirements	\$ 8,000
02 00 00	Existing Conditions	\$ 24,500
03 00 00	Concrete	\$ 41,759
04 00 00	Masonry	\$ -
05 00 00	Metals	\$ 6,728
06 00 00	Woods, Plastics, and Composites	\$ 93,185
07 00 00	Thermal and Moisture Protection	\$ 3,000
08 00 00	Openings	\$ 10,500
09 00 00	Finishes	\$ 1,000
10 00 00	Specialties	\$ 500
11 00 00	Equipment	\$ -
12 00 00	Furnishings	\$ 500
13 00 00	Special Construction	\$ -
14 00 00	Conveying Equipment	\$ -
21 00 00	Fire Suppression	\$ -
22 00 00	Plumbing	\$ 3,160
23 00 00	Heating, Ventilating, and Air Conditioning (HVAC)	\$ 1,000
25 00 00	Integrated Automation	\$ 5,000
26 00 00	Electrical	\$ 15,000
27 00 00	Communications	\$ -
28 00 00	Electronic Safety and Security	\$ -
31 00 00	Earthwork	\$ 9,800
32 00 00	Exterior Improvements	\$ 21,000
33 00 00	Utilities	\$ -
34 00 00	Transportation	\$ -
35 00 00	Waterway and Marine Construction	\$ -
40 00 00	Process Integration	\$ 12,224
41 00 00	Material Processing and Handling Equipment	\$ -
42 00 00	Process Heating, Cooling, and Drying Equipment	\$ -
43 00 00	Process Gas and Liquid Handling, Purification, and Storage Equipment	\$ 7,050
44 00 00	Pollution and Waste Control Equipment	\$ 5,000
45 00 00	Industry-Specific Manufacturing Equipment	\$ -
46 00 00	Water and Wastewater Equipment	\$ 101,200
48 00 00	Electrical Power Generation	\$ -
A - Subtotal (Sum Divisions 00 - 48):		\$ 370,106
B - Design Contingency		30% of (A) \$ 111,032
C - Contractor Overhead		8% of (A+B) \$ 38,491
D - Contractor Profit		7% of (A+B) \$ 33,680
E - Taxes, Bonds, and Insurance		8% of (A+B) \$ 38,491
F - Contingency		10% of (A+B+C+D+E) \$ 59,180
G - Escalation		3% of (A+B+C+D+E+F) \$ 19,529
TOTAL ESTIMATED CONSTRUCTION COST		\$ 671,000

Division 00 00 00 - Procurement and Contracting Requirements

Division 01 00 00 - General Requirements

GENERAL - Description	Material				Labor				Total
	Qty	Unit	\$/Unit	\$	Qty	Unit	\$/Unit	\$	\$
Mobilization	1	LS	\$ 8,000	\$ 8,000				\$ -	\$ 8,000
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
DIV 01 00 00 TOTAL									\$ 8,000

Division 02 00 00 - Existing Conditions

GENERAL - Description	Material				Labor				Total
	Qty	Unit	\$/Unit	\$	Qty	Unit	\$/Unit	\$	\$
Demo Piping and Manholes	1	LS	\$ 1,000	\$ 1,000	48	hr	\$100	\$ 4,800	\$ 5,800
Relocate Chem Systems	1	LS	\$ 500	\$ 500	16	hr	\$100	\$ 1,600	\$ 2,100
Temp Pipe Relocation	1	LS	\$ 1,000	\$ 1,000	72	hr	\$100	\$ 7,200	\$ 8,200
Demo Chem Room	1	LS	\$ 1,000	\$ 1,000	48	hr	\$100	\$ 4,800	\$ 5,800
Demo West 2x4 Ext Wall	1	LS	\$ 1,000.00	\$ 1,000	16	hr	\$100	\$ 1,600	\$ 2,600
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
DIV 02 00 00 TOTAL									\$ 24,500

Division 03 00 00 - Concrete

GENERAL - Description	Material				Labor				Total
	Qty	Unit	\$/Unit	\$	Qty	Unit	\$/Unit	\$	\$
New Bldg Slabs	13.6	CY	\$1,000.00	\$ 13,593				\$ -	\$ 13,593
New Bldg Foundation and Vaults	18.8	CY	\$1,500.00	\$ 28,167				\$ -	\$ 28,167
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
DIV 03 00 00 TOTAL									\$ 41,759

Division 04 00 00 - Masonry

Division 05 00 00 - Metals

GENERAL - Description	Material				Labor				Total
	Qty	Unit	\$/Unit	\$	Qty	Unit	\$/Unit	\$	\$
Metal Roofing	672.8	SF	\$ 10	\$ 6,728				\$ -	\$ 6,728
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
DIV 05 00 00 TOTAL									\$ 6,728

Division 06 00 00 - Woods, Plastics, and Composites									
GENERAL - Description	Material				Labor				Total
	Qty	Unit	\$/Unit	\$	Qty	Unit	\$/Unit	\$	\$
New Building Framing	587.9	SF	\$ 150.00	\$ 88,185				\$ -	\$ 88,185
New 2x6x8' Wall, Exst Bldg W End	1	LS	\$ 5,000.00	\$ 5,000				\$ -	\$ 5,000
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
DIV 06 00 00 TOTAL									\$ 93,185

Division 07 00 00 - Thermal and Moisture Protection									
GENERAL - Description	Material				Labor				Total
	Qty	Unit	\$/Unit	\$	Qty	Unit	\$/Unit	\$	\$
Insulation	1	LS	\$ 3,000.00	\$ 3,000				\$ -	\$ 3,000
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
DIV 07 00 00 TOTAL									\$ 3,000

Division 08 00 00 - Openings									
GENERAL - Description	Material				Labor				Total
	Qty	Unit	\$/Unit	\$	Qty	Unit	\$/Unit	\$	\$
Rollup Door	1	EA	\$ 8,000	\$ 8,000				\$ -	\$ 8,000
3x7 Doors	2	EA	\$ 1,000	\$ 2,000				\$ -	\$ 2,000
3X3 Winter Door	1	EA	\$ 500	\$ 500				\$ -	\$ 500
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
DIV 08 00 00 TOTAL									\$ 10,500

Division 09 00 00 - Finishes									
GENERAL - Description	Material				Labor				Total
	Qty	Unit	\$/Unit	\$	Qty	Unit	\$/Unit	\$	\$
Painting	1	LS	\$ 1,000	\$ 1,000				\$ -	\$ 1,000
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
DIV 09 00 00 TOTAL									\$ 1,000

Division 10 00 00 - Specialties									
GENERAL - Description	Material				Labor				Total
	Qty	Unit	\$/Unit	\$	Qty	Unit	\$/Unit	\$	\$
Identification Devices	1	LS	\$ 500	\$ 500				\$ -	\$ 500
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
DIV 10 00 00 TOTAL									\$ 500

Division 11 00 00 - Equipment									
-------------------------------	--	--	--	--	--	--	--	--	--

Division 12 00 00 - Furnishings									
GENERAL - Description	Material				Labor				Total
	Qty	Unit	\$/Unit	\$	Qty	Unit	\$/Unit	\$	\$
Misc Furnishing	1	LS	\$ 500	\$ 500				\$ -	\$ 500
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
DIV 12 00 00 TOTAL									\$ 500

Division 13 00 00 - Special Construction

Division 14 00 00 - Conveying Equipment

Division 21 00 00 - Fire Suppression

Division 22 00 00 - Plumbing									
GENERAL - Description	Material				Labor				Total
	Qty	Unit	\$/Unit	\$	Qty	Unit	\$/Unit	\$	\$
Floor Drains	1	LS	\$ 1,000	\$ 1,000				\$ -	\$ 1,000
4" SS Piping	60	LF	\$ 36	\$ 2,160				\$ -	\$ 2,160
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
DIV 22 00 00 TOTAL									\$ 3,160

Division 23 00 00 - Heating, Ventilating, and Air Conditioning (HVAC)									
GENERAL - Description	Material				Labor				Total
	Qty	Unit	\$/Unit	\$	Qty	Unit	\$/Unit	\$	\$
Exhaust Fan	1	LS	\$ 500	\$ 500				\$ -	\$ 500
Elec. Heater	1	LS	\$ 500	\$ 500				\$ -	\$ 500
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
DIV 23 00 00 TOTAL									\$ 1,000

Division 25 00 00 - Integrated Automation									
GENERAL - Description	Material				Labor				Total
	Qty	Unit	\$/Unit	\$	Qty	Unit	\$/Unit	\$	\$
Modify MF System Controls	1	LS	\$ 5,000	\$ 5,000				\$ -	\$ 5,000
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
DIV 25 00 00 TOTAL									\$ 5,000

Division 26 00 00 - Electrical									
GENERAL - Description	Material				Labor				Total
	Qty	Unit	\$/Unit	\$	Qty	Unit	\$/Unit	\$	\$
Electrical to New Bldg	1	LS	\$ 3,000	\$ 3,000				\$ -	\$ 3,000
Building Electrical	1	LS	\$ 5,000	\$ 5,000				\$ -	\$ 5,000
BWW Pump Starter	1	LS	\$ 2,000.00	\$ 2,000				\$ -	\$ 2,000
BWR Pump VFD	1	LS	\$ 3,000.00	\$ 3,000				\$ -	\$ 3,000
Waste Sump Pump Starter	1	LS	\$ 2,000.00	\$ 2,000				\$ -	\$ 2,000
DIV 26 00 00 TOTAL									\$ 15,000

Division 27 00 00 - Communications

Division 28 00 00 - Electronic Safety and Security									
GENERAL - Description	Material				Labor				Total
	Qty	Unit	\$/Unit	\$	Qty	Unit	\$/Unit	\$	\$
DIV 28 00 00 TOTAL									\$ -

Division 31 00 00 - Earthwork									
GENERAL - Description	Material				Labor				Total
	Qty	Unit	\$/Unit	\$	Qty	Unit	\$/Unit	\$	\$
Structural Excavation	25.2	CY	\$ 20	\$ 504	16	hr	\$100	\$ 1,600	\$ 2,104
Structural Backfill	25.2	CY	\$ 15	\$ 378	16	hr	\$100	\$ 1,600	\$ 1,978
Fill Exst Ponds	252	CY	\$ 10	\$ 2,519	32	hr	\$100	\$ 3,200	\$ 5,719
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
DIV 31 00 00 TOTAL									\$ 9,800

Division 32 00 00 - Exterior Improvements									
GENERAL - Description	Material				Labor				Total
	Qty	Unit	\$/Unit	\$	Qty	Unit	\$/Unit	\$	\$
AC Paving (3" AC + 8" AB)	3000	SF	\$ 7	\$ 21,000				\$ -	\$ 21,000
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
DIV 32 00 00 TOTAL									\$ 21,000

Division 33 00 00 - Utilities

Division 34 00 00 - Transportation

Division 35 00 00 - Waterway and Marine Construction

Division 40 00 00 - Process Interconnections

GENERAL - Description	Material				Labor				Total
	Qty	Unit	\$/Unit	\$	Qty	Unit	\$/Unit	\$	\$
8" DIP BWW Piping	36	LF	\$ 96	\$ 3,456				\$ -	\$ 3,456
8" DIP CIPW Piping	54	LF	\$ 96	\$ 5,184				\$ -	\$ 5,184
6" DIP DR Piping	22	LF	\$ 72	\$ 1,584				\$ -	\$ 1,584
2" PVC1 BWR Piping	100	LF	\$ 20	\$ 2,000				\$ -	\$ 2,000
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
DIV 40 00 00 TOTAL									\$ 12,224

Division 41 00 00 - Material Processing and Handling Equipment

Division 42 00 00 - Process Heating, Cooling, and Drying Equipment

Division 43 00 00 - Process Gas and Liquid Handling, Purification, and Storage Equipment

GENERAL - Description	Material				Labor				Total
	Qty	Unit	\$/Unit	\$	Qty	Unit	\$/Unit	\$	\$
Submersible BWW Feed Pump	1	LS	\$ 750	\$ 750	16	Hr	\$100	\$ 1,600	\$ 2,350
BWR Pump	1	LS	\$ 750.00	\$ 750	16	Hr	\$100	\$ 1,600	\$ 2,350
Waste Sump Pump	1	LS	\$ 750.00	\$ 750	16	Hr	\$100	\$ 1,600	\$ 2,350
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
DIV 43 00 00 TOTAL									\$ 7,050

Division 44 00 00 - Pollution and Waste Control Equipment

Division 45 00 00 - Industry-Specific Manufacturing Equipment

Division 46 00 00 - Water and Wastewater Equipment

GENERAL - Description	Material				Labor				Total
	Qty	Unit	\$/Unit	\$	Qty	Unit	\$/Unit	\$	\$
Parkson Plate Settler	1	LS	\$ 94,000	\$ 94,000	72	Hr	\$100	\$ 7,200	\$ 101,200
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
				\$ -				\$ -	\$ -
DIV 46 00 00 TOTAL									\$ 101,200

Division 48 00 00 - Electrical Power Generation



Project No.: 19-020
 Title: Lake Alpine Water Company
 GAC System Preliminary Design
 Preliminary Cost Estimate
UPDATED FOR GAC INSIDE NEW BWR BLDG

Computed By: Joe Riess
 Date: 12/18/2021

Description	Qty	Unit	Unit Price	Subtotal	Design Contingency	Markups	Total	Rounded
Building Upgrades¹								
Demolish Existing Siding on North Side of Building	1	LS	\$5,000	\$5,000	\$1,500	\$1,235	\$7,735	\$8,000
Replace Damaged Framing, Install New Siding, Weatherproofing	1	LS	\$30,000	\$30,000	\$9,000	\$7,410	\$46,410	\$46,000
Install French Drain	100	LF	\$60	\$6,000	\$1,800	\$1,482	\$9,282	\$9,000
Move Electrical Devices to Non-Combustible Backboard	1	LS	\$5,000	\$5,000	\$1,500	\$1,235	\$7,735	\$8,000
Total Building Upgrades								\$71,000
GAC System								
Demolish Existing Vessels, Piping and Slab	1	LS	\$10,000	\$10,000	\$3,000	\$2,470	\$15,470	\$15,000
New GAC and Limestone Contactor Vessel ²	1	LS	\$112,900	\$112,900	\$33,870	\$27,886	\$174,656	\$175,000
Sonic Devices	3	EA	\$3,500	\$10,500	\$3,150	\$2,594	\$16,244	\$16,000
New Interior Piping and Valves	1	LS	\$30,000	\$30,000	\$9,000	\$7,410	\$46,410	\$46,000
Total GAC System								\$252,000
TOTALS				\$209,400	\$62,820	\$51,722	\$323,942	\$323,000

Markups	%
Design Contingency	30%
Contractor General, Mobilization, Overhead and Profit	15%
General Conditions, Bonds, Insurance, and Taxes	4%
<i>Additional Markups (not used)</i>	<i>0%</i>

Project Total	Cost
Engineering Design and Services During Construction (15% of Const)	\$48,450
Construction	\$323,000
Construction Contingency (10%)	\$32,300
Total Estimated Project Cost	\$403,750

Notes:

- Assumes no building permit required.
- Equipment cost per AqueoUSVets 11/15/2019 proposal.



LAMELLA® EcoFlow™ GRAVITY SETTLER

PRELIMINARY BUDGET SIZING LAKE ALPINE, CA

APPLICATION: MEMBRANE REJECT (washwater clarification stage for membranes)

DESIGN DATA:

Flow:	34	USGPM	=	0.05	USmgd	pH :	tbc
Feed quality:	200	mg/L suspended solids		(tbc)		Temp (°F):	tbc °F
Overflow quality:	20	mg/L suspended solids		(tbc)		Chlorides (mg/l):	tbc mg/L

**One (1) model LGS 125/55 LAMELLA® GRAVITY SETTLER
complete with flashmixer/flocculator**

Plate area:	per unit:	125 ft ²	Total:	125 ft ²
Effective Settling area:	per unit:	125 ft ²	Total:	125 ft ²
Loading rate:		0.27 USgpm/ft ²	Plate Efficiency:	100%
Sludge hopper capacity each:		53 US gallons		
Expected underflow solids concentration:		0.5 to 1.0 %wt (tbc)		
Expected underflow (continuous):		0.6 to 1.2 USGPM		
Flashmixer:	vol. each	16.83 gal	Retention time:	29.7 sec
	drive:	0.5 HP constant speed drive motor 230/460V / 3 ph / 60 Hz		
Flocculator:	vol. each	67.32 gal	Retention time:	1.98 min
	drive:	0.5 HP variable speed drive 230/460V / 3 ph / 60 Hz		

LGS unit designed for Seismic Zone: 4

In order to prove performance, lab testing of representative sample may be required.

SCOPE: Epoxy Coated Carbon Steel Tank
 EPCS Flashmixer/Flocculator Tank
 Iso FRP Settling Plates with PVC Stiffeners (NSF61 FRP Resin)
 304SS Hardware
 Hydro/Leak Test
 Holiday Test (Coating Continuity - if applicable)
 Platform, Ladder, & Handrail by others
 NSF61 Internal Coating

BUDGET PRICING: \$86,100 USD for equipment only
TBC USD adder for Freight
\$6,681 USD adder for Field Service for 1 trip 1 days on site
 FOB, Point of Manufacture. All freight, Duty, Brokerage, and taxes extra
 Start-Up visit including travel and travel expenses per adder.

SHIPMENT: 18 to 20 weeks after purchase.

PRICE VALIDITY: Pricing is for budgeting purposes only.
 A formal quote is required prior to issuing a PO. And note that since Covid-19 has created shortages in steel, it may therefore affect pricing at time of formal quote and/or order.



Lamella EcoFlow®

Inclined Plate Settler

- 25% increase in capacity over traditional plate settlers
- Improved hydraulics yield improved efficiency
- Easy to retrofit existing settlers
- Improved effluent quality and sludge thickening

Optimizing settling by using Lamella®

Lamella® Gravity Settler requires only one tenth the space of conventional clarification equipment with the same settling capacity. This means faster settling because the effective gravity settling area of the inclined plate design equals each plate's area projected on a horizontal surface. Up to ten square feet of settling area becomes available for each square foot of physical area occupied by the unit. Loading rates normally used for the design of conventional settlers can be applied to the sizing of a Lamella® by substituting projected area for the surface settling area of a conventional clarifier.

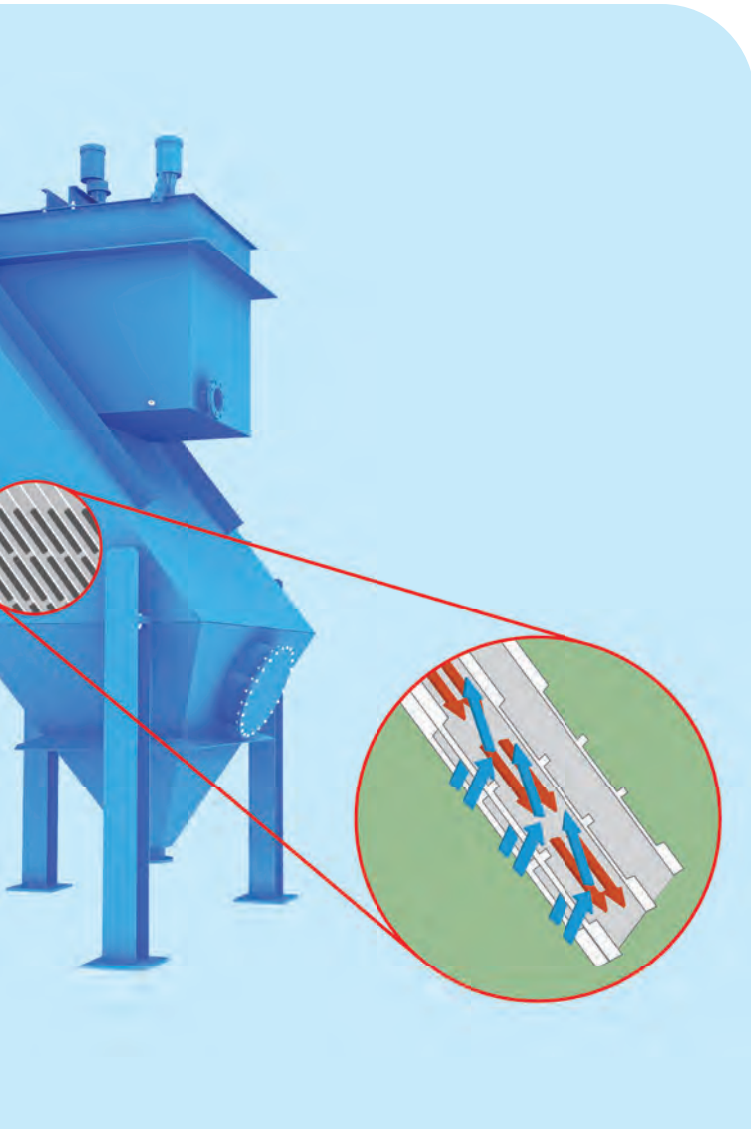
Principle of Operation

Influent enters the Lamella® Gravity Settler, flows downward through the inlet chamber and enters the plates through side-entry plate slots. The countercurrent design, unlike typical bottom feed designs, reduces the risk of disturbing previously settled solids. As the liquid flows upward, the solids settle on the inclined, parallel plates and slide into the sludge hopper at the bottom. Further thickening of the sludge is achieved in the hopper due to compression in the quiescent zone achieved by the side feed design.



The clarified liquid leaves the plate assembly through orifices or weirs at the top and is distributed into collection channels leading to the clarified water outlet. This creates a pressure drop across the collection channels which ensures uniform flow distribution across the plates in order to utilize the full area for settling.

The compact design minimizes hydraulic disturbances caused by wind or temperature changes. Balanced flow distribution ensures equal flow to each plate and across the plate surface area, preventing short-circuiting. Units and plate packs arrive at the job site factory assembled, which reduces installation time and lowers installation costs. Minimal moving parts mean low maintenance costs.



Three Standard Designs

The LGS (Lamella® Gravity Settler) design is a self-contained, packaged settling unit with a conical sludge hopper. The LGST (Lamella® Gravity Settler/Thickener) design is a high rate gravity settler combined with a circular, picket-fence sludge thickener/scraper.

The LGST handles solids loadings beyond the capacity of a packaged settler unit. It produces higher sludge concentrations and provides sludge storage, allowing for flexibility of further sludge dewatering equipment. Underflow sludge concentrations are up to 3 to 5 times higher.

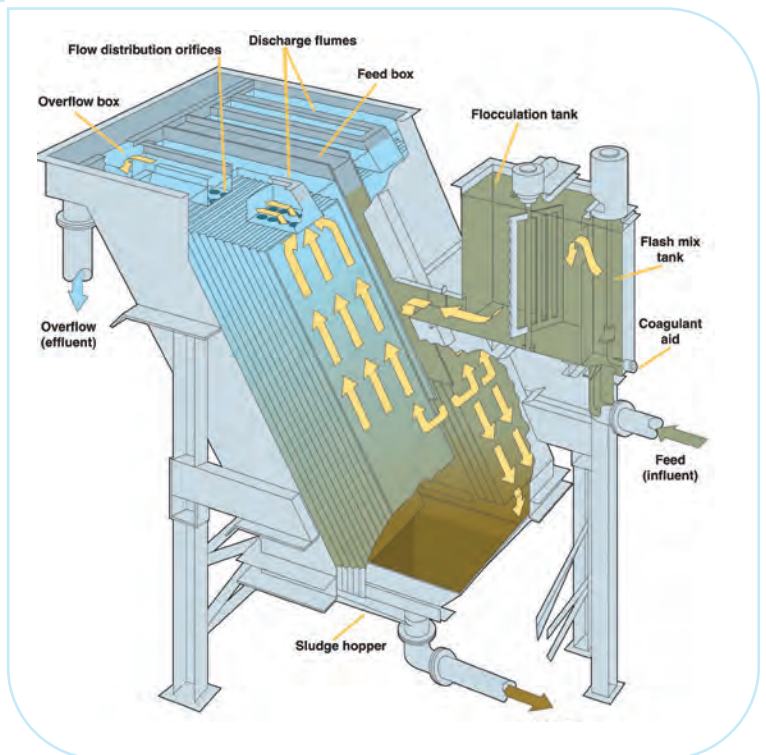
In addition to self-contained designs, the plate pack assembly is appropriate for installation in concrete basins or steel tanks for larger flows. This can be a low maintenance, cost-effective means of increasing existing basin capacity. The plate pack assemblies operate in the same manner as the free-standing units. Both designs can be equipped with a flash mixing and flocculation tank upstream of the inlet pipe. The chemical flocculant is added in a separate flash mixing compartment.

Parkson offers integrated flash/floc design for space constraint projects and FRP units for highly corrosive applications.

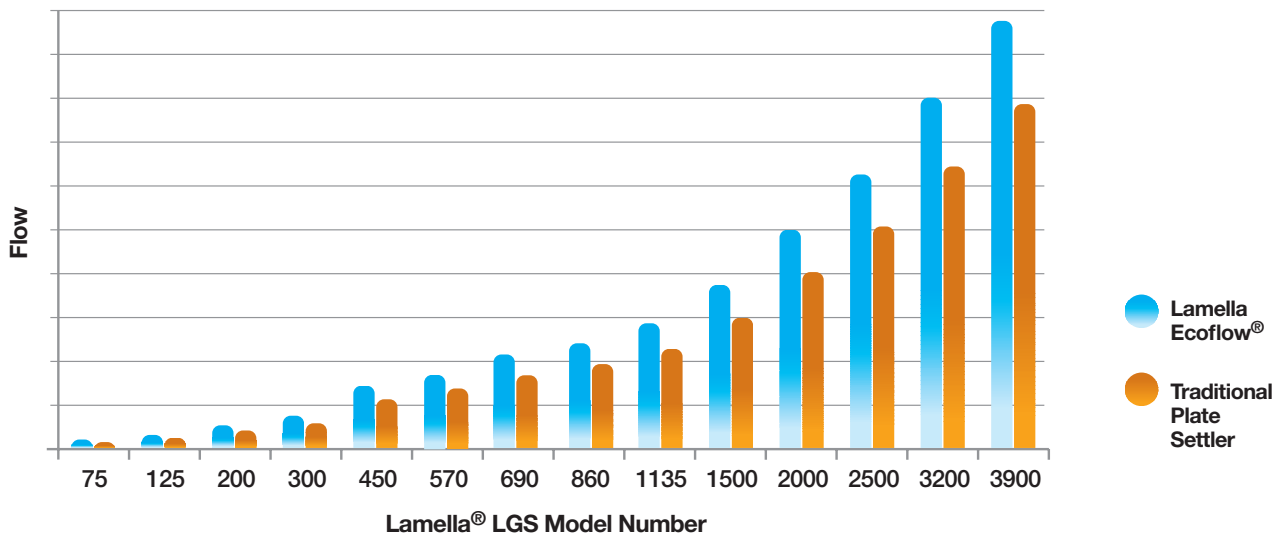
EcoFlow® Way – 100% Settling Area

Traditional plate settlers orient the feed slots in such a way that the influent stream collides with the solids front moving down the plate to the sludge hopper. This creates a zone of interference that renders the bottom 20% of the plate area unusable for settling.

The patented EcoFlow® design changes the orientation of the feed slots to allow the influent to flow over the top of the solids front. Elimination of the mixing zone allows for 100% utilization of the plate settling area. The increase in settling area allows for 25% more flow to be processed in a given Lamella® tank with traditional plates. Alternatively, a given flow rate can be handled with a 25% reduction in equipment size. Patented EcoFlow plates allow for better effluent quality and enhanced sludge thickening due to influent, effluent and solids streams not interfering with each other.



Added Capacity Using Lamella EcoFlow®



Process Knowledge

Parkson has unparalleled process knowledge gained from more than 4,000 installations, 12,000 laboratory tests and 1,000 pilot tests.

Water Research Facility and Pilot Testing

The Parkson WRF offers laboratory and pilot rental services, staffed with separations experts that are available to perform jar testing and optimization studies on your custom application. Sample analysis at the WRF laboratory provides effective treatment solutions and equipment sizing for various applications. Parkson also offers pilot units for rental.

Retrofits of Existing Plate Settlers

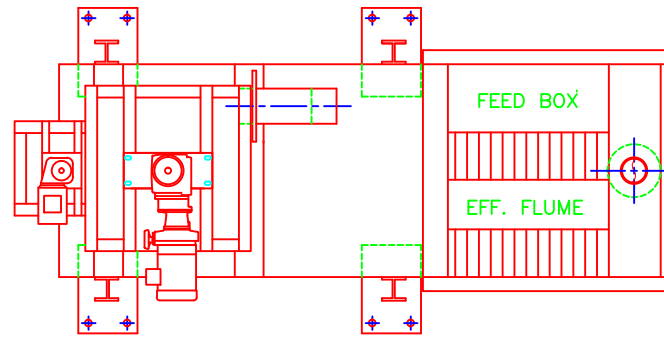
Parkson can retrofit plate settlers from most manufacturers. A Lamella EcoFlow® plate retrofit is the most cost-effective way to increase capacity with the benefit of not changing the footprint. Parkson can perform the work with our personnel or offer the option of supervising plant personnel. Either option utilizes the 45+ years of experience that we have in plate settler retrofits and all work comes with a warranty.



Fort Lauderdale
Chicago
Kansas City
Denver

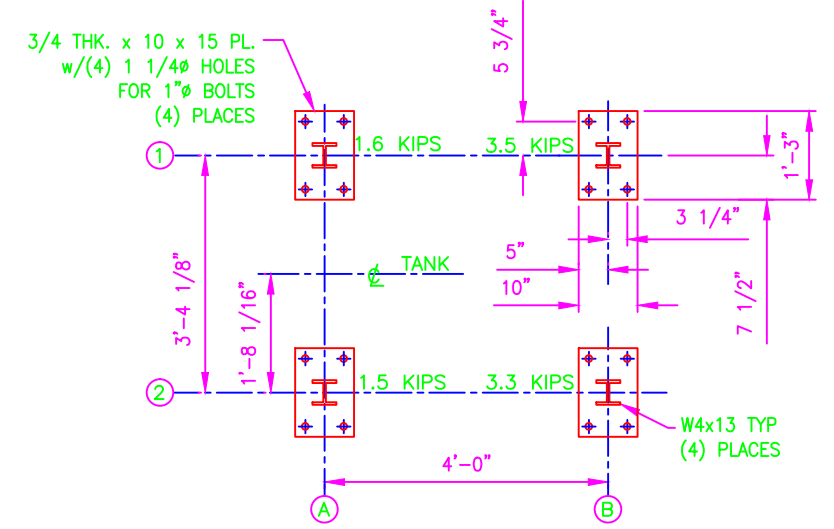
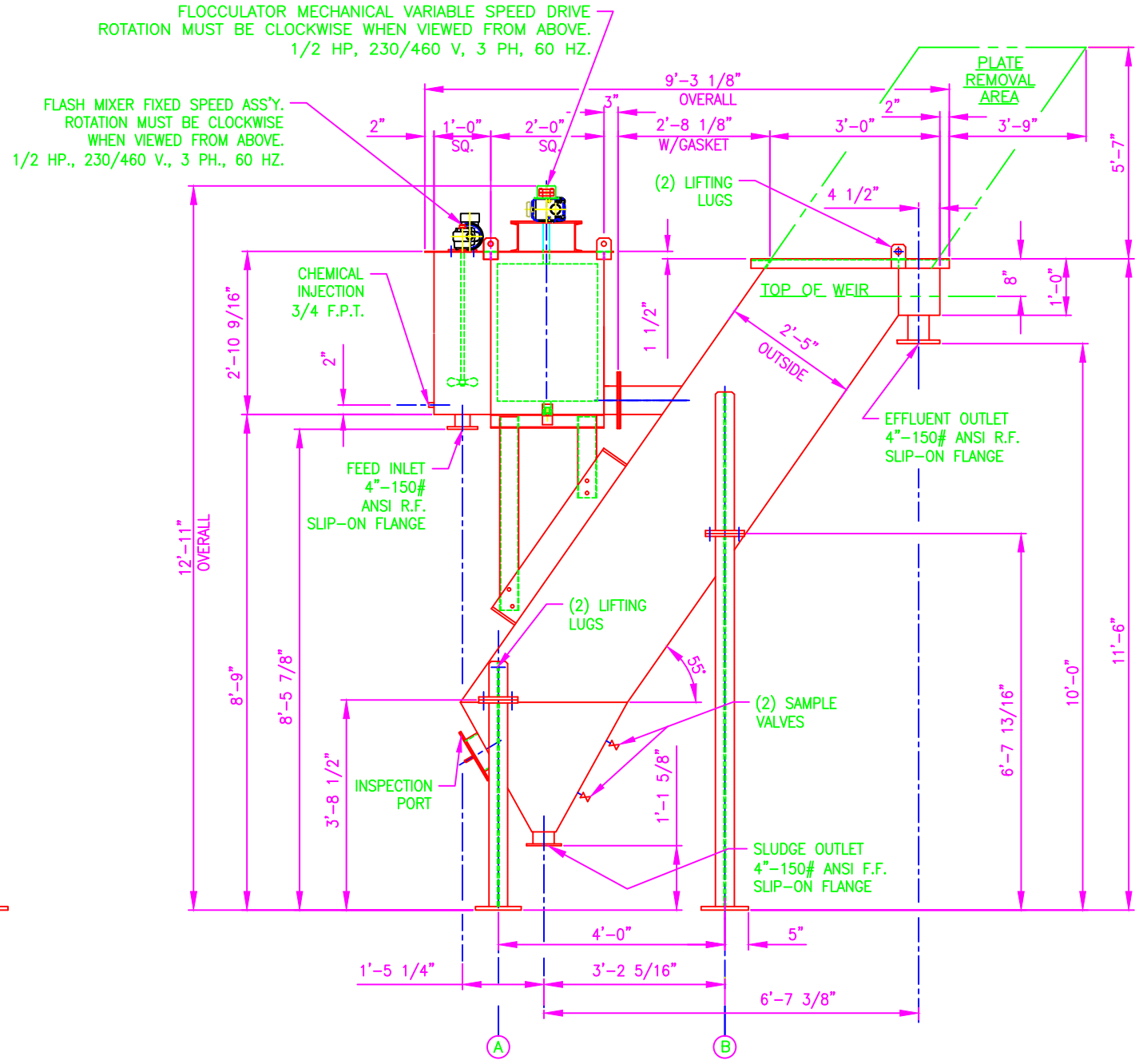
1.888.PARKSON
technology@parkson.com
www.parkson.com





NOTES:

1. MATERIALS OF CONSTRUCTION:
 LAMELLA PLATES: SEE SPECS.
 LAMELLA TANK: 1/4 PL. A-36 C.S.
 HOPPER: 1/4 PL. A-36 C.S.
 FLOC & MIX TANK: 1/4 PL. A-36 C.S.
 STRUCTURAL MEMBERS: A-36 C.S.
2. ALL WELDS PER LATEST AMERICAN WELDING SOCIETY STANDARD.
3. SEE PAINT SPECIFICATIONS FOR PREPARATION AND COATINGS.
4. USE SPREADER BARS OF ADEQUATE WIDTH AND CAPACITY WHEN LIFTING LAMELLA TANK
5. ALL BOLT HOLES AT 150# FLANGED PIPE CONNECTIONS STRADDLE NORMAL CENTERLINES.
6. CAULK ALL EXTERNAL STIFFENERS TOP AND BOTTOM AFTER APPLICATION OF BASE COAT.
7. CUSTOMER TO PROVIDE ALLOWANCE FOR A MINIMUM OF 1" OF GROUT BELOW BASE PLATES.



FOR REFERENCE ONLY
 NOT FOR CONSTRUCTION

SHIPPING WEIGHT
 LAMELLA TANK: 2,500#
 FLOC.& MIX. TANK: 900#
 WT. FULL OF LIQUID:
 LAMELLA TANK: 7,900#
 FLOC.& MIX. TANK: 2,000#

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REV	DESCRIPTION	DATE	BY
1	UPDATE DRAWING AND TITLEBLOCK	8-6-13	PLG

PRELIMINARY APPROVAL
 INFORMATION CERTIFIED

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DRAWN BY	DATE
Gm-j	10-3-94
CHECKED BY	DATE
HDH	1-17-95
SCALE	SIZE
NTS	B



PROJECT NAME	TITLE
PROJECT NUMBER	Lamella® EcoFlow™
PROJECT NAME	GENERAL ARRANGEMENT
PROJECT LOCATION	MODEL 125/55 W/"A" F/M
REFERENCE INFORMATION	DRAWING NO
	LGN125FA

REV	1
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**Bear Valley Water District
Profit Loss Budget Performance
November 2020 vs. November 2021**

	Prior Year July 1 - Nov 30th	FY 20-21 Budget	FY 20-21 Budget	Current Year July 1 - Nov 30th	FY 21-22 Budget	FY 21-22 Budget	Variance Explanation
REVENUES							
Residential	312,752	625,000	50%	313,756	630,000	50%	
Commercial	74,475	150,000	50%	70,047	120,000	58%	
Subtotal Operating Revenue	387,227	775,000	50%	383,803	750,000	51%	Revenue Target - 50 %
EXPENSES							
Salaries & Benefits	173,324	374,414	46%	175,642	395,022	44%	
Director Expenses	800	2,000	40%	1500	2,000	75%	
Operator Training & Certs	175	1,500	12%	0	1,000	0%	
Gas, Diesel, Oil & Filters	0	3,500	0%	484	3,000	16%	
Insurance	8,155	16,000	51%	8,751	18,000	49%	
Memberships & Conferences	4,683	4,600	102%	4,449	5,500	81%	On Target
Office Expenses & Supplies	4,567	10,000	46%	5,407	7,500	72%	
Field Expenses & Supplies	10,131	25,000	41%	6,069	20,000	30%	
Grooming, Snow Removal & Vehicle Storage	394	3,500	11%	0	3,500	0%	
Engineering & Consulting	0	5,000	0%	10,956	5,000	219%	UBD Design Stds Eng
Legal & Accounting	780	10,000	8%	7,174	10,000	72%	
Equipment Rental	402	800	50%	402	800	50%	
Repairs & Maintenance	40,918	60,000	68%	59,499	60,000	99%	UBD Coll Sys Repairs
Laboratory Fees	7,557	15,000	50%	6,153	12,000	51%	
Regulatory Reporting & Comp. Projects	0	7,000	0%	0	6,500	0%	
Taxes, Fees, Licenses & Assessments	29,950	45,000	67%	12,110	45,000	27%	
Utilities	26,371	60,000	44%	36,695	55,000	67%	FY21 Elec Inv in FY22
Subtotal Operating Expenses	308,208	643,314	48%	335,292	649,822	52%	Expense Target - 50 %
Net Operational Income	79,019	131,686	60%	48,512	100,178	48%	
OTHER REVENUE							
Interest Income - LAIF	691	6,000	12%	225	1,500	15%	
Late Fee, Penalties and Interest	1,036	2,000	52%	978	2,500	39%	
Expense Reimbursements - USFS Campground	13,726	8,375	164%	4,805	4,805	100%	
Expense Reimbursements - Concessionnaire	3,991	9,665	41%	3,830	3,830	100%	
Misc Other Income	2850	0		5,803	5200	UBD	Grant Expense
Subtotal Other Revenue	22,294	26,040	86%	15,640	17,835	88%	
OTHER EXPENSES							
Loan Interest	6,073	12,318	49%	5,348	12,318	43%	
Depreciation	48,833	106,825	46%	46,058	100,596	46%	
Misc Expense	30	0	UBD	0	0	UBD	
Subtotal Other Expenses	54,936	119,143	46%	51,405	112,914	46%	
Net Other Income	(32,642)	(93,103)	35%	(35,765)	(95,079)	38%	
NET INCOME	46,376	38,583	120%	12,746	5,099	250%	
NON CASH EXPENDITURES (included in net income)							
Depreciation	48,833	114,223	48%	46,058	100,596	46%	
Subtotal Non-Cash Expenses	48,833	114,223	48%	46,058	100,596	46%	
CASH EXPENDITURES (Not Included in net income)							
Capital Improvements / Replacements	(16,450)	(189,053)	94%	(160,598)	(57,000)	282%	UBD Battery, Grant Projs
Loan Payments - Principal	(17,401)	(40,657)	43%	(18,126)	(44,019)	41%	
Subtotal Addl Cash Expenses	(197,290)	(229,710)	86%	(178,724)	(101,019)	177%	
NET CASH FLOW	-102,080	-76,904	133%	-119,920	4,676	-2565%	

BVWD
Balance Sheet Prev Year Comparison
As of November 30, 2021

	<u>Nov 30, 21</u>	<u>Nov 30, 20</u>	<u>\$ Change</u>	<u>% Change</u>
ASSETS				
Current Assets				
Checking/Savings				
11015 · F&M Bank	615,347.75	396,210.96	219,136.79	55.31%
11018 · LAIF	319,836.62	318,529.04	1,307.58	0.41%
11020 · Petty Cash	50.00	50.00		
11025 · Capital Facilities Fund	29,026.00	21,656.00	7,370.00	34.03%
Total Checking/Savings	<u>964,260.37</u>	<u>736,446.00</u>	<u>227,814.37</u>	<u>30.93%</u>
Accounts Receivable				
11050 · Accounts Receivable	-20,560.31	5,771.73	-26,332.04	-456.22%
Total Accounts Receivable	<u>-20,560.31</u>	<u>5,771.73</u>	<u>-26,332.04</u>	<u>-456.22%</u>
Other Current Assets				
11055 · Accounts Receivable-Tax Roll	10,165.46	10,193.50	-28.04	-0.28%
11140 · Prepaid Insurance	4,585.81	4,222.94	362.87	8.59%
Total Other Current Assets	<u>14,751.27</u>	<u>14,416.44</u>	<u>334.83</u>	<u>2.32%</u>
Total Current Assets	<u>958,451.33</u>	<u>756,634.17</u>	<u>201,817.16</u>	<u>26.67%</u>
Fixed Assets				
12010 · Land	25,805.16	25,805.16		
12020 · SbSrfLine	1,196,893.29	1,196,893.29		
12040 · Col Facilities	497,047.95	485,584.50	11,463.45	2.36%
12041 · LA Facilities	166,428.79	166,428.79		
12050 · TRT Facilities	1,358,836.36	1,352,893.09	5,943.27	0.44%
12060 · DSP Facilities	1,264,402.01	1,264,402.01		
12080 · P & A (Plant & Admin)Facilities	482,118.91	482,118.91		
12100 · Accumulated Depreciation	-2,951,357.50	-2,840,355.35	-111,002.15	-3.91%
14030 · Work in Progress				
14030.0 · W.I.P. - GIS Consulting Support	4,722.05	6,222.05	-1,500.00	-24.11%
16025 · Verisight Pro Plus 100M System	11,851.13		11,851.13	100.0%
16530 · Hydro Jetter		11,463.45	-11,463.45	-100.0%
16545 · Transfer Flow Meter		5,943.27	-5,943.27	-100.0%
16565 · FY20/21 - NPDES PERMIT (5 YR.)	41,729.00	30,249.50	11,479.50	37.95%
16570 · Reservoir Outlet & Gate Valve		1,235.55	-1,235.55	-100.0%
16580 · Tesla Backup Battery Cover @ Eq	103,523.12		103,523.12	100.0%
16600 · SGIP-Tesla Backup Battery	15,700.00		15,700.00	100.0%
16610 · Radio Telemetry Project	5,802.67		5,802.67	100.0%
16620 · Main Pump Station Grinder Proje	33,856.14		33,856.14	100.0%
Total 14030 · Work in Progress	<u>217,184.11</u>	<u>55,113.82</u>	<u>162,070.29</u>	<u>294.07%</u>
Total Fixed Assets	<u>2,257,359.08</u>	<u>2,188,884.22</u>	<u>68,474.86</u>	<u>3.13%</u>
TOTAL ASSETS	<u><u>3,215,810.41</u></u>	<u><u>2,945,518.39</u></u>	<u><u>270,292.02</u></u>	<u><u>9.18%</u></u>
LIABILITIES & EQUITY				
Liabilities				
Current Liabilities				
Accounts Payable				
21021 · Accounts Payable	12,289.85	40,480.82	-28,190.97	-69.64%

BVWD
Balance Sheet Prev Year Comparison
As of November 30, 2021

	<u>Nov 30, 21</u>	<u>Nov 30, 20</u>	<u>\$ Change</u>	<u>% Change</u>
Total Accounts Payable	12,289.85	40,480.82	-28,190.97	-69.64%
Other Current Liabilities				
21030 · Other Payable	-980.00		-980.00	-100.0%
21040 · Prepaid Revenue	232.97	232.97		
21090 · Payroll Liabilities	11,768.17	14,761.39	-2,993.22	-20.28%
2110 · Direct Deposit Liabilities	-8.18	-8.18		
22015 · Cal OES Unearned Income	294,197.33		294,197.33	100.0%
22021 · Accrued Vacation	12,550.00	20,277.95	-7,727.95	-38.11%
Total Other Current Liabilities	<u>317,760.29</u>	<u>35,264.13</u>	<u>282,496.16</u>	<u>801.09%</u>
Total Current Liabilities	330,050.14	75,744.95	254,305.19	335.74%
Long Term Liabilities				
26025 · F&M Bank Loan	315,323.19	358,379.26	-43,056.07	-12.01%
Total Long Term Liabilities	<u>315,323.19</u>	<u>358,379.26</u>	<u>-43,056.07</u>	<u>-12.01%</u>
Total Liabilities	645,373.33	434,124.21	211,249.12	48.66%
Equity				
29000 · Retained Earnings	1,953,664.32	1,868,361.83	85,302.49	4.57%
29100 · O & M Emergency Reserve Fund	150,000.00	150,000.00		
29200 · CIP Reserve Fund	425,000.00	425,000.00		
29300 · Capacity Fee Reserve Fund	29,026.00	21,656.00	7,370.00	34.03%
Net Income	<u>12,746.76</u>	<u>46,376.35</u>	<u>-33,629.59</u>	<u>-72.52%</u>
Total Equity	<u>2,570,437.08</u>	<u>2,511,394.18</u>	<u>59,042.90</u>	<u>2.35%</u>
TOTAL LIABILITIES & EQUITY	<u><u>3,215,810.41</u></u>	<u><u>2,945,518.39</u></u>	<u><u>270,292.02</u></u>	<u><u>9.18%</u></u>

BVWD
A/P Aging Summary
As of September 30, 2021

Prepays September 2021	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL	Description
Alpine County Recorder	15.00					15.00	Recording Fees
A.T.&T.	193.26					193.26	Telephone & U-Verse
Card Services	2,596.36					2,596.36	Office, Telephone, Field Supplies
E.D.D.	172.68					172.68	State Payroll Taxes
E.D.D.	401.34					401.34	State Payroll Taxes
E.D.D.	181.63					181.63	State Payroll Taxes
E.D.D.	411.04					411.04	State Payroll Taxes
F. & M. Bank	4,694.80					4,694.80	Principal & Interest on Loan
Guy West	157.92					157.92	Mileage Reimbursement
I.R.S.	3,483.20					3,483.20	Federal Payroll Taxes
I.R.S.	3,766.02					3,766.02	Federal Payroll Taxes
John T. Watts Construction	40,538.46					40,538.46	Tesla Battery Cover
Lake Alpine Water Company	178.81					178.81	Water for Main Office
P.G.&E.	1,656.30					1,656.30	Electricity
S.D.R.M.A.	2,053.82					2,053.82	Health Benefits for Employees
S.D.R.M.A.	667.79					667.79	Dental, Vision, Life Insurance for Employees
Terry Woodrow	15.00					15.00	Notary Fee
Vantage Transfer	1,247.16					1,247.16	457 Plan for Employees' Retirement
Vantage Transfer	351.57					351.57	401 Plan for Employees' Retirement
Vantage Transfer	1,306.23					1,306.23	457 Plan for Employees' Retirement
Vantage Transfer	389.08					389.08	401 Plan for Employees' Retirement
The Zenith	833.00					833.00	Workers Compensation Insurance
TOTAL	65,310.47					65,310.47	

Accounts Payable September 2021	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL	Description
Alpha Analytical Laboratories Inc.	105.00	414.00				519.00	Laboratory Analysis
Alpine Cnty Tax Collector		588.12				588.12	Property Tax
Alpine County Public Works		483.98				483.98	Diesel & Unleaded Fuel
Alternative Energy Co.		422.50				422.50	Annual Heater Maintenance
Aqua Sierra Controls, Inc.		6,664.56				6,664.56	Radio Telemetry System
Arnold Auto Supply Inc.		38.55				38.55	Auto Parts

BVWD
A/P Aging Summary
As of September 30, 2021

Accounts Payable September 2021	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL	Description
Arnold Tires		9.44				9.44	Fee
AT&T Business Service 2					-12.72	-12.72	Credit for Account Closed
Diane Lundquist			200.00			200.00	Director Fees for Regular Meetings
EBBETTS PASS GAS CO. Inc.		721.94				721.94	Propane Gas
Ebbetts Pass Lumber Co. Inc.		340.58				340.58	Field Supplies
El Dorado Septic Service, Inc.		134.06				134.06	Porta Potty Rental
Franklin Miller Inc.		23,786.22				23,786.22	Grinder Project MPS
Gateway Press Inc.		130.95				130.95	Envelopes for A/R Invoices
Gunnar Thordarson			200.00			200.00	Director Fees for Regular Meetings
Industrial Electrical Co.		2,910.36				2,910.36	Annual Generator Inspection / Maintenance
Jackson James Equipment Service & Repair		849.25				849.25	Repairs on Snowmobile
Jim Bissell			200.00			200.00	Director Fees for Regular Meetings
John Boyle			200.00			200.00	Director Fees for Regular Meetings
John T. Watts Construction	1,248.30					1,248.30	Tesla Battery Cover
Ken Brown			200.00			200.00	Director Fees for Regular Meetings
M & K ARNOLD	11,415.60					11,415.60	Repair & Maint Collection Lines
McCrometer, Inc.		926.01				926.01	Meter Calibration
Neumiller and Beardslee		299.00				299.00	Legal Fees
Stantec Consulting Services Inc.		3,347.75				3,347.75	NPDES Permit Renewal
TOTAL	12,768.90	42,067.27	1,000.00		-12.72	55,823.45	

BVWD
A/P Aging Summary
As of October 31, 2021

Prepays October 2021	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL	Description
A.T.&T.	127.68					127.68	Telephone & U-Verse
Bear Valley Snowmobile	980.00					980.00	Snowmobile Repairs
Card Services	1,243.22					1,243.22	Office, Telephone, Field Supplies
Refund Coonan	980.00					980.00	A/R Refund
E.D.D.	184.43					184.43	State Payroll Tax
E.D.D.	422.80					422.80	State Payroll Tax
E.D.D.	185.68					185.68	State Payroll Tax
E.D.D.	432.73					432.73	State Payroll Tax
E.D.D.	0.02					0.02	State Payroll Tax
E.D.D.	154.07					154.07	State Payroll Tax
E.D.D.	290.61					290.61	State Payroll Tax
Farmers & Merchants Bank	4,694.80					4,694.80	Principal & Interest on Loan
I.R.S.	3,847.90					3,847.90	Federal Payroll Tax
I.R.S.	3,863.84					3,863.84	Federal Payroll Tax
I.R.S.	3,081.96					3,081.96	Federal Payroll Tax
J's Tree Service	4,600.00					4,600.00	Tree (Multiple) Removal
Lake Alpine Water Company	165.07					165.07	Water for Main Office
Refund Noakes	6,323.97					6,323.97	A\R Refund
P.G.&E.	1,305.88					1,305.88	Electricity for October
S.D.R.M.A	667.79					667.79	Dental, Vision. Life Insurance for Employees
S.D.R.M.A	2,053.82					2,053.82	Health Insurance for Employees
Vantage Transfer	392.68					392.68	401 Plan Retirement for Employees
Vantage Transfer	1,288.31					1,288.31	457 Plan Retirement for Employees
Vantage Transfer	1,358.39					1,358.39	457 Plan Retirement for Employees
Vantage Transfer	409.69					409.69	401 Plan Retirement for Employees
Vantage Transfer	53.34					53.34	401 Plan Retirement for Employees
Vantage Transfer	106.68					106.68	457 Plan Retirement for Employees
Vantage Transfer	314.42					314.42	401 Plan Retirement for Employees
Vantage Transfer	1,115.69					1,115.69	457 Plan Retirement for Employees
The Zenith	833.00					833.00	Workers Compensation Insurance for Employees
TOTAL	41,478.47					41,478.47	

BVWD
A/P Aging Summary
As of October 31, 2021

Accounts Payable October 2021	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL	Description
Ace Electric Motor and Pump		11,479.40				11,479.40	Pump Repair
Alpha Analytical Laboratories Inc.		1,386.00				1,386.00	Laboratory Analysis
AT&T Business Service 2					-12.72	-12.72	Credit for Line Closed
Columbia Communications Inc.		39.00				39.00	Pager for Field Staff
CSDA		2,199.00				2,199.00	Membership Dues
Diane Lundquist		100.00				100.00	Director Fees for October 18, 2021 Regular Meeting
EBBETTS PASS GAS CO. Inc.		235.67				235.67	Propane
Ebbetts Pass Lumber Co. Inc.		175.03				175.03	Field Supplies
El Dorado Septic Service, Inc.		1,530.00				1,530.00	Porta Potty Rental
Gunnar Thordarson		100.00				100.00	Director Fees for October 18, 2021 Regular Meeting
Jim Bissell		100.00				100.00	Director Fees for October 18, 2021 Regular Meeting
John Boyle		100.00				100.00	Director Fees for October 18, 2021 Regular Meeting
John T. Watts Construction		54,790.37				54,790.37	Tesla Battery Cover Project
Ken Brown		100.00				100.00	Director Fees for October 18, 2021 Regular Meeting
M & K ARNOLD		11,718.60				11,718.60	Collection Line Repairs
Michael Page		170.00				170.00	Repair Water Heater
P.G.&E.							Electricity for October
Stantec Consulting Services Inc.		11,101.25				11,101.25	Report to RWQCB for Evaluation of Effluent Discharge
TNT Industrial Contractors	10,069.92					10,069.92	New Grinder MPS
Weber Ghio and Associates, Inc		5,137.28				5,137.28	General Engineering
TOTAL	10,069.92	100,461.60			-12.72	110,518.80	

BVWD
A/P Aging Summary
As of November 30, 2021

Prepays November 2021	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL	Description
A.T.&T.	127.68					127.68	Telephone
Card Services	2,501.81					2,501.81	Office, Telephone, Field Supplies
Coffman Refund	3,360.96					3,360.96	A/R Refund
E.D.D.	110.47					110.47	State Payroll Taxes
E.D.D.	174.90					174.90	State Payroll Taxes
E.D.D.	106.11					106.11	State Payroll Taxes
E.D.D.	173.76					173.76	State Payroll Taxes
Farmers & Merchants Bank	4,694.80					4,694.80	Principal & Interest on Loan
I.R.S.	2,275.26					2,275.26	Federal Payroll Taxes
I.R.S.	2,218.50					2,218.50	Federal Payroll Taxes
Lake Alpine Water Company	165.88					165.88	Water for Main Office
P.G.&E.	1,565.57					1,565.57	Electricity for November
S.D.R.M.A	2,053.82					2,053.82	Health Insurance for Employees
S.D.R.M.A	667.79					667.79	Dental, Vision, Life Insurance for Emp.
Vantage Transfer	257.85					257.85	401 Plan Retirement for Employees
Vantage Transfer	936.07					936.07	457 Plan Retirement for Employees
Vantage Transfer	257.46					257.46	401 Plan Retirement for Employees
Vantage Transfer	935.68					935.68	457 Plan Retirement for Employees
The Zenith	833.00					833.00	Workers Compensation Insurance
TOTAL	23,417.37					23,417.37	

Accounts Payable November 2021	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL	Description
Al Cal Glass		3.81				3.81	Supplies
Alpha Analytical Laboratories Inc.		1,767.00				1,767.00	Laboratory Analysis
AT&T Business Service 2					-12.72	-12.72	Credit For Terminated Service
CISCO Fire Sprinkler, Inc.		110.00				110.00	Fire Hydrant Maintenance
EBBETTS PASS GAS CO. Inc.		570.45				570.45	Propane
Ebbetts Pass Lumber Co. Inc.		207.40				207.40	Field Supplies
Esri		1,500.00				1,500.00	Annual Primary Maintenance
Hach		596.41				596.41	Laboratory Supplies
Neumiller and Beardslee		447.50				447.50	Legal Council

BVWD
A/P Aging Summary
As of November 30, 2021

Accounts Payable November 2021	Current	1 - 30	31 - 60	61 - 90	> 90	TOTAL	Description
Robert W. Johnson, Accountancy Corp. CPA		7,100.00				7,100.00	Annual Audit
TOTAL		12,302.57			-12.72	12,289.85	

BVWD
A/R Aging Summary
As of January 14, 2022

	<u>Current</u>	<u>1 - 30</u>	<u>31 - 60</u>	<u>61 - 90</u>	<u>> 90</u>	<u>TOTAL</u>
CM180		283.17			20.00	303.17
BV423		289.05			17.94	306.99
SM205		289.05			20.00	309.05
CB106		289.05			25.12	314.17
BV059		289.05			27.11	316.16
BV308		289.05	28.91			317.96
CS116		289.05			28.91	317.96
BV258		289.05	28.91			317.96
LA017		289.05			28.91	317.96
BV038		289.05		-0.05	28.96	317.96
BV208		289.05	28.91	0.27		318.23
TM014		289.05			35.88	324.93
TM015		289.05			35.88	324.93
LA021		289.05			54.22	343.27
LA041		289.05			54.33	343.38
CS014		289.05			57.02	346.07
BV365		289.05			69.33	358.38
CM020		411.40				411.40
CM091		257.43		257.43	-24.69	490.17
CM060		257.43		257.43		514.86
BV122		289.05	28.91		289.05	607.01
CS036		289.05	28.91		289.55	607.51
CS006		289.05	28.91		317.96	635.92
BV179		289.05	28.91	28.91	567.15	914.02
BV047		289.05	28.91	28.91	606.04	952.91
CO003		1,034.12				1,034.12
BV082		289.05			867.15	1,156.20
CM080		1,369.21				1,369.21
CM110		3,468.60			-0.20	3,468.40
CM150		6,691.20			-359.60	6,331.60
CM010		14,772.40			-2.00	14,770.40
TOTAL		143,381.53	4,603.45	6,040.86	-44,459.83	109,566.01
TOTAL CREDITS	0	-1,158.10	-118.00	-1,864.97	-48,352.61	-\$51,493.68
TOTAL DEBITS	0	144,539.63	4,721.45	7,905.83	3,892.78	161,059.69
TOTAL	0	143,381.53	4,603.45	6,040.86	-44,459.83	109,566.01

BVWD

A/R Aging Summary
As of January 14, 2021

	<u>Current</u>	<u>1 - 30</u>	<u>31 - 60</u>	<u>61 - 90</u>	<u>> 90</u>	<u>TOTAL</u>
TOTAL	289.09	144,721.04	2,091.67	-350.52	(38,114.77)	108,636.51
TOTAL CREDITS	0	-289.05	-2,044.08	-927.00	-46,390.57	-49,650.70
TOTAL DEBITS	289.09	145,010.09	4,135.75	576.48	8,275.80	158,287.21
TOTAL	289.09	144,721.04	2,091.67	-350.52	-38,114.77	108,636.51

Final Details for Order #113-2823159-8800213

[Print this page for your records.](#)

Order Placed: September 17, 2021
Amazon.com order number: 113-2823159-8800213
Order Total: \$160.86

Shipped on September 18, 2021

Items Ordered	Price
1 of: <i>Geek Chef Air Fryer Toaster Oven, 6 Slice 24QT Convection Airfryer Countertop Oven, Roast, Bake, Broil, Reheat, Fry Oil-Free, Cooking Accessories Included, Stainless Steel, Silver, 1700W</i>	\$149.99
Sold by: Geek Chef US (seller profile)	
Condition: New	

Shipping Address:
Bear Valley Water District
441 Creekside Drive
Bear Valley, CA 95223
United States

Shipping Speed:
FREE Prime Delivery

Handwritten signature: O 11/8/21

Payment information

Payment Method:
Visa | Last digits: 3311

Billing address
Bear Valley Water District
441 Creekside Drive
Bear Valley, CA 95223
United States

Item(s) Subtotal: \$149.99
Shipping & Handling: \$0.00

Total before tax: \$149.99
Estimated tax to be collected: \$10.87

Grand Total: \$160.86

Credit Card transactions

Visa ending in 3311: September 18, 2021: \$160.86

To view the status of your order, return to [Order Summary](#).

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Final Details for Order #114-8105734-4807419
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Order Placed: September 21, 2021
Amazon.com order number: 114-8105734-4807419
Order Total: \$793.65

Shipped on September 21, 2021

Items Ordered	Price
1 of: <i>Brother MFC-L8900CDW Business Color Laser All-in-One Printer, Amazon Dash Replenishment Ready</i> Sold by: Prime Office Deals(Serial Number Recorded) (seller profile) Condition: New	\$740.00

Q1 11/8/21

Shipping Address:
Bear Valley Water District
441 Creekside Drive
Bear Valley, CA 95223
United States

Shipping Speed:
Standard Shipping

Payment information

Payment Method:
Visa | Last digits: 3311

Billing address
Bear Valley Water District
441 Creekside Drive
Bear Valley, CA 95223
United States

Item(s) Subtotal:	\$740.00
Shipping & Handling:	\$0.00

Total before tax:	\$740.00
Estimated tax to be collected:	\$53.65

Grand Total: \$793.65

Credit Card transactions

Visa ending in 3311: September 21, 2021: \$793.65

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Order Placed: September 18, 2021
PO number : GUY
Amazon.com order number: 113-3488262-1047453
Order Total: \$139.39

Shipped on September 20, 2021	
Items Ordered	Price
2 Of: Apache 98128040 2" x 20' Water Pump PVC Suction Hose Sold by: Acme Tools (seller profile) Condition: New	\$59.99
Shipping Address: Bear Valley Water District - Guy West 441 CREEKSIDE DRIVE BEAR VALLEY, CA 95223-5027 United States	Item(s) Subtotal: \$119.98 Shipping & Handling: \$9.99 ----- Total before tax: \$129.97 Sales Tax: \$9.42 -----
Shipping Speed: Standard Shipping	Total for This Shipment: \$139.39 -----

Payment information	
Payment Method: Visa Last digits: 3268	Item(s) Subtotal: \$119.98 Shipping & Handling: \$9.99 -----
Billing address Bear Valley Water District PO Box 5027 Bear Valley, CA 95223 United States	Total before tax: \$129.97 Estimated Tax: \$9.42 ----- Grand Total: \$139.39
Credit Card transactions	Visa ending in 3268: September 20, 2021: \$139.39

To view the status of your order, return to [Order Summary](#) .

Handwritten signature: [Signature] 10/11/21
Fruity Co.

amazon.com

Final Details for Order #113-5708235-9677810[Print this page for your records.](#)

Order Placed: November 18, 2021
Amazon.com order number: 113-5708235-9677810
Seller's order number: 7853415
Order Total: \$658.64

Shipped on November 19, 2021**Items Ordered**

	Price
1 of: <i>Brother TN436BK, TN436C, TN436Y, TN436M 4-Color Super High Yield Toner Cartridge Set</i>	\$614.12

Sold by: Smart Toners ([seller profile](#))

Condition: New

Shipping Address:

Bear Valley Water District
 441 Creekside Drive
 Bear Valley, CA 95223
 United States

Shipping Speed:

Standard Shipping

Payment information**Payment Method:**

Visa | Last digits: 3311

Item(s) Subtotal:	\$614.12
Shipping & Handling:	\$0.00

Total before tax: \$614.12

Estimated tax to be collected: \$44.52

Grand Total: \$658.64**Billing address**

Bear Valley Water District
 441 Creekside Drive
 Bear Valley, CA 95223
 United States

Credit Card transactions

Visa ending in 3311: November 19, 2021: \$658.64

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