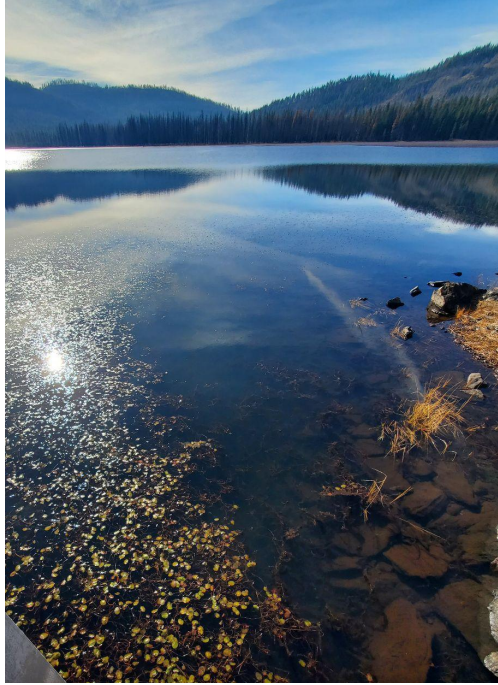




PLUMAS COUNTY ROUND VALLEY RESERVOIR CLIMATE ADAPTATION AND NATURE BASED SOLUTIONS

Project update by:
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Plumas County Disaster Recovery
Coordinator
(530) 283-6094
keliward@countyofplumas.com

BACKGROUND

- Plumas County applied for and received grant funding from FEMA in coordination with Cal OES through the FY 2022 Building Resilient Infrastructure and Resilient Communities (BRIC) Grant Program.
- The funded project will identify mitigation activities to protect critical water services and water security functions and enhance resilience against current and future risks to the Reservoir caused by recurring wildfires, increased flooding and erosional risks, and the expanding impacts of drought and climate change.
- Will include comprehensive planning, technical analyses, and stakeholder engagement to address infrastructure failure including its water supply and conveyance infrastructure, landslide/debris flow, and drought risks.
- At least three mitigation interventions will be explored (one no-action) evaluating level of protection increase, cost-effectiveness, feasibility, environmental compliance, and community/partnership support. Types of activities explored will include enhancing reservoir capacity, stabilizing banks, and reducing sedimentation to combat drought.
- Outcome → the selection and conceptual design of the preferred and most effective mitigation strategy.
- A Hazard Mitigation Assistance FEMA Subapplication will be prepared to seek funding for implementation, including a scope, schedule and budget for design/construction services.

TEAM

PLUMAS COUNTY AND THE INDIAN VALLEY COMMUNITY SERVICES DISTRICT



SHERWOOD DESIGN ENGINEERS
PRIME: CIVIL ENGINEERING

LMNOP DESIGN INC.

SUB: COMMUNITY LIAISON, DESIGN + BUILD

CSU MONTEREY BAY WATERSHED GEOLOGY LAB

*SUB: GEOMORPHOLOGY, HYDROLOGY
& GEOSPATIAL ANALYSIS*

GEOSYNTEC CONSULTANTS

SUB: GEOTECHNICAL ENGINEERING

RINCON CONSULTANTS, INC.

*SUB: ENVIRONMENTAL PERMITTING & CLIMATE
VULNERABILITY ANALYSIS*

WILDLAND RES MGT

SUB: WILDFIRE RESILIENCE & MANAGEMENT

SIERRA INSTITUTE

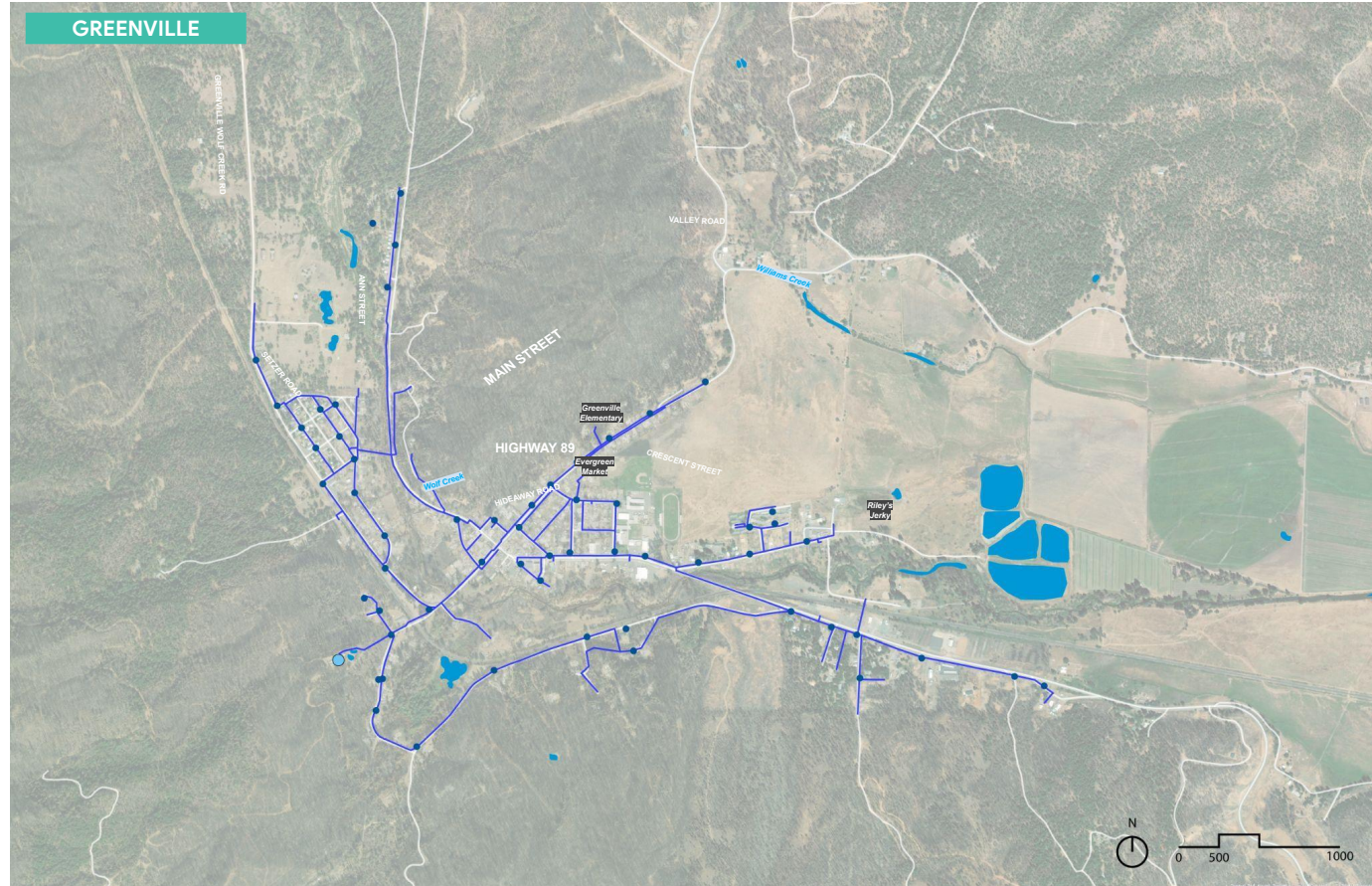
SUB: COMMUNITY ADVISEMENT, NEPA

WATER SYSTEM AND FIRE SUPPRESSION

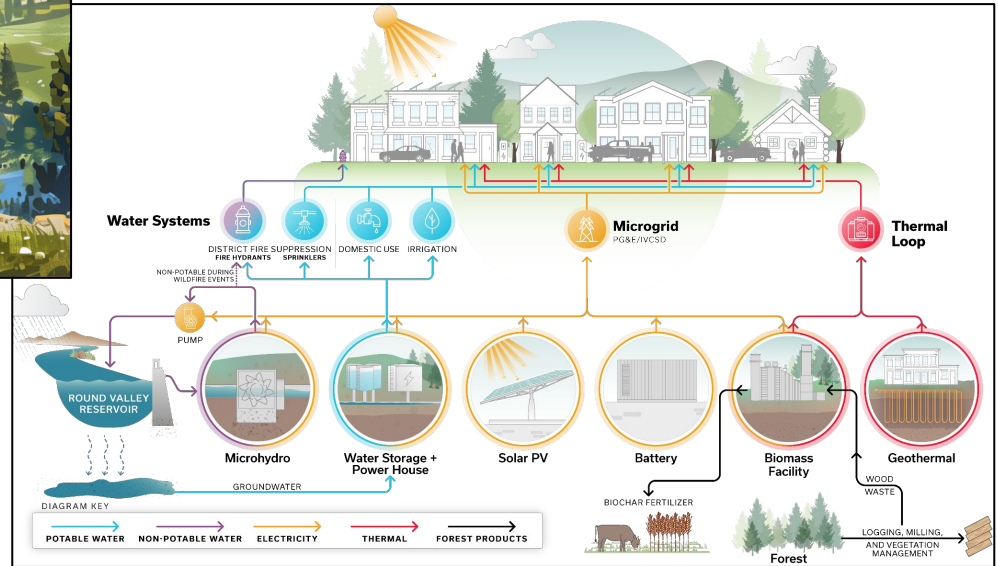
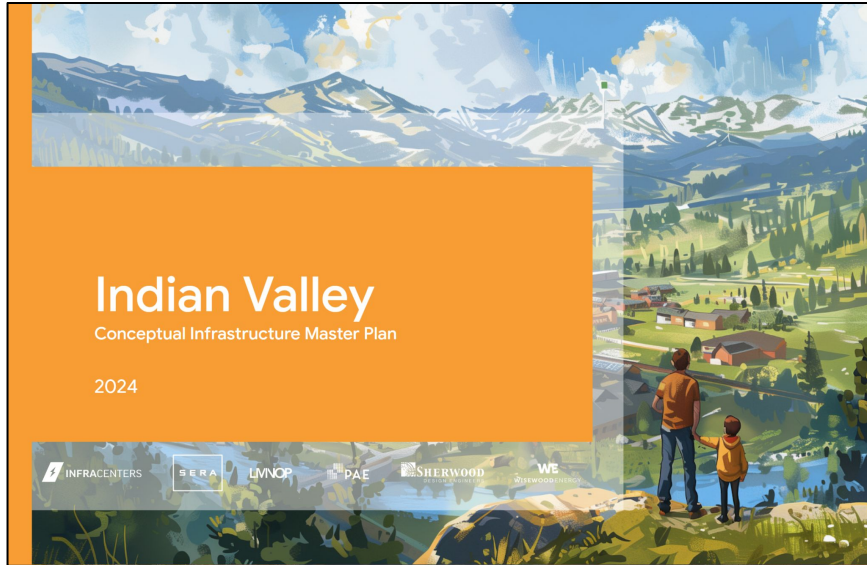


In the past, the water system utilized local surface water resources supplied from Round Valley Reservoir and treated at a water treatment plant located above the town of Greenville. IVCSd moved to groundwater wells and abandoned the treatment plant to simplify the system's treatment and operational needs, and to reduce Operator training requirements.

During the Dixie Fire, the well pumps were destroyed causing the fire hydrants in the town to go dry. Additionally, the raw water supply line from Round Valley Reservoir and the water treatment plant were destroyed.



PREVIOUS PLANNING



PROJECT APPROACH

Round Valley Reservoir as a...

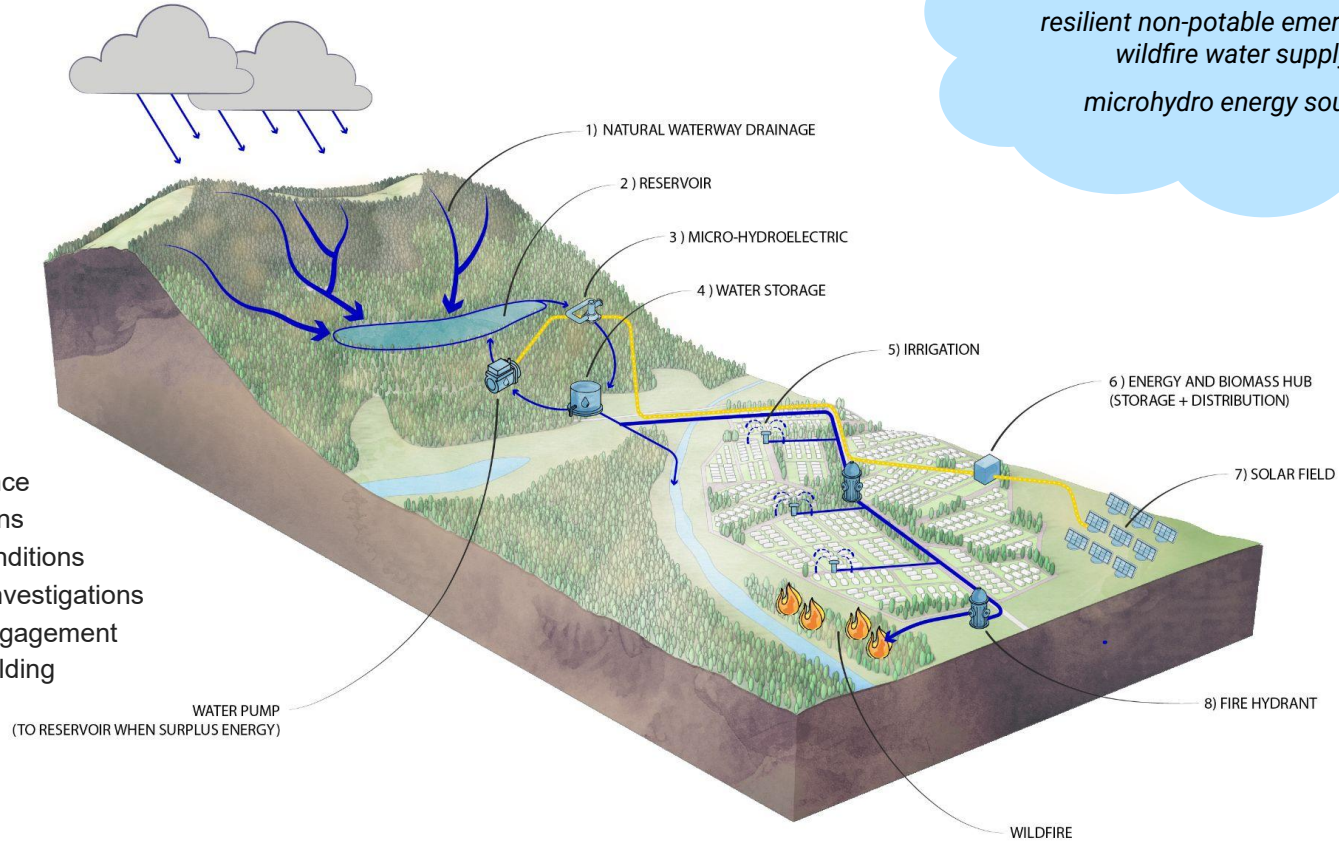
vibrant recreational area

*resilient non-potable emergency /
wildfire water supply*

microhydro energy source

Focus on:

- Climate resilience
- Future conditions
- Current site conditions
- Geotechnical investigations
- Stakeholder engagement
- Partnership building



BUDGET

- Approved federal funding: \$452,320, local match requirement of \$47,630 funded under state CalOES PrepareCA Match. The total project budget is \$499,950.

TASK	LABOR BUDGET		
	Consultant	County	IVCSD
Task 1 – Pre-Award	--	\$28,800	--
Task 2 – Project Management	\$7,000	\$1,980	\$7,260
Task 3 – Grant Management	--	\$23,650	--
Task 4 – Procurement	--	\$10,560	--
Task 5 – Evaluate Existing Conditions	\$101,000	--	--
Task 6 – Alternatives Analysis	\$113,800	\$8,560	--
Task 7 – Community Engagement and Outreach	--	\$5,664	\$1,416
Task 8 – Feasibility Assessment	\$85,600	--	--
Task 9 – Environmental and Historic Preservation (EHP) / CEQA & Permitting	\$29,000	--	--
Task 10 – Develop Hazard Mitigation Assistance (HMA) FEMA Subapplication	\$40,000	\$5,500	--
Task 11 – Project Closeout	\$12,000	\$5,720	--
Other (Fringe)	--	\$12,440	--
TOTAL - \$499,950	\$388,400	\$102,874	\$8,676

IVCSD STAFF BUDGET = \$8,676.00

- Task 2 Project Management
 - Task 2.1 Project Execution Oversight \$1,980.00
 - Task 2.2 Interagency Coordination and Partnerships \$5,280.00
- Task 7 Community Engagement and Outreach
 - Task 7.1 Stakeholder Management and Engagement \$1,416.00

			2025		2026												2027		
			NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
T2 - PROJECT MANAGEMENT																			
T5 - EVALUATE EXISTING CONDITIONS																			
T6 - ALTERNATIVE ANALYSIS																			
T7 - COMMUNITY ENGAGEMENT AND OUTREACH (PLUMAS COUNTY)																			
T8 - FEASIBILITY ASSESSMENT																			
T9 - ENVIRONMENTAL AND HISTORIC PRESERVATION (EHP) / CEQA & PERMITTING																			
T10 - DEVELOP HAZARD MITIGATION ASSISTANCE (HMA) FEMA SUBAPPLICATION																			
T11 PROJECT CLOSEOUT																			

CONSULTANT SCHEDULE

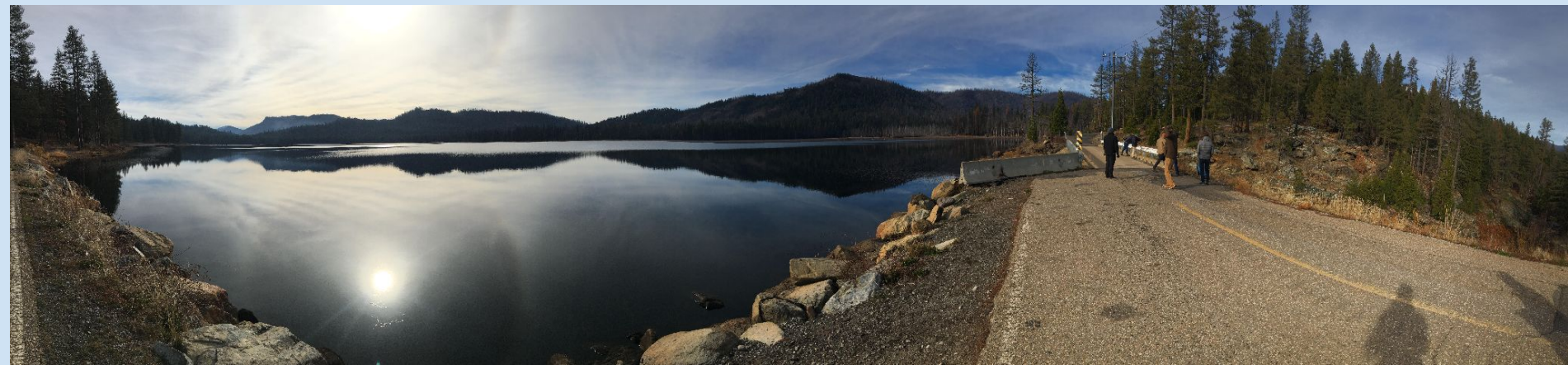
TASK	DURATION
Task 2 – Project Management	October 2025 – March 26, 2027
Task 5 – Evaluate Existing Conditions	November 2025 – March 2026
Task 6 – Alternatives Analysis	December 2025 – June 2026
Task 8 – Feasibility Assessment	July 2026 – December 2026
Task 9 – Environmental and Historic Preservation (EHP) / CEQA & Permitting	July 2026 – December 2026
Task 10 – Develop Hazard Mitigation Assistance (HMA) FEMA Subapplication	September 2026 – December 2026
Task 11 – Project Closeout	January 1, 2027 – March 26, 2027

Task 10 - DEVELOP HAZARD MITIGATION ASSISTANCE (HMA) FEMA SUBAPPLICATION

- Develop a scope, schedule, and budget for a Benefit Cost Analysis
- Develop HMA subapplication or explore other grant funding opportunities

- Final task reports
- Grant management close out reports

[illegible]



QUESTIONS & ANSWERS