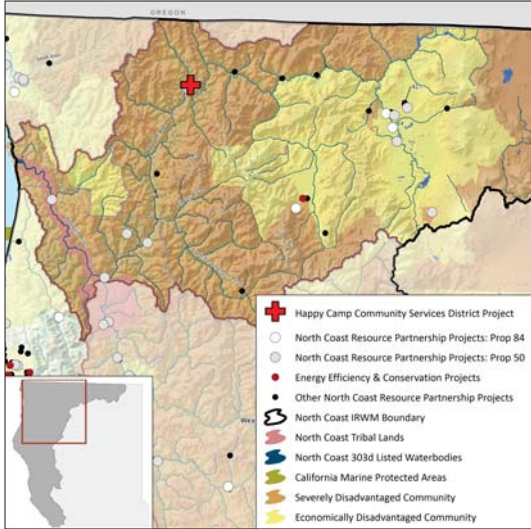


Happy Camp Water System Upgrades — Phase 1

HAPPY CAMP COMMUNITY SERVICES DISTRICT (CSD)



COMPLETION DATE

December 31 2018

STATEMENT OF THE PROBLEM

The current water system requires operators to take daily grab samples at the water storage tank outlet to determine chlorine residual. These data are limited and the situation provides uncertainty regarding proper treatment of the drinking water supply. The Happy Camp Community Services District is obligated under the State Water Resources Control Board and the Federal Environmental Protection Agency to comply with LT1/ LT2 Enhanced Surface Water Treatment Rules to ensure water quality and monitoring requirements are met.

PROJECT GOALS

- Safe and reliable drinking water supply
- Economic vitality for a state-recognized Disadvantaged Community

THE SOLUTION

Water quality monitoring equipment will be installed to provide continuous monitoring, data logging, and alarms for samples taken from the tank outlet pipe for chlorine residual, pH, and temperature, as well as providing an onsite display of these parameters and of tank water levels. A water flow meter will be installed on the 12" tank outlet pipe for monitoring storage tank detention time. The existing pressure transducer equipment will also be upgraded.

PROJECT IMPLEMENTATION

Project planning, design, and permitting have been initiated and construction is scheduled to begin in September 2018.

PROJECT BUDGET

IRWM funds:	\$ 217,000
Leveraged funds:	\$ 73,000
TOTAL	\$ 290,000

BENEFITS

Economic benefits

- Approximately \$14,760 in avoided manual sampling costs yearly
- Avoided costs associated with contamination, which occurs at least 6 times yearly

Water Quality

- Improved water quality for the residents of Happy Camp
- Faster response time by water system operator, if continuous monitoring equipment indicates drinking water quality is close to being or is out of compliance with State requirements

Water Supply

- About 400 acre-feet per year of water supply protected through improved compliance with water quality standards

Cultural benefits

- Improved community capacity to provide a reliable, safe water supply, which will enhance business and tourism potential
- Improved coordination, data gathering, and data reporting for the CSD and government entities working to protect public health and safety
- Increased environmental justice through implementation of a project that ensures the Human Right to Water for residents of Happy Camp

Jobs and Local Economic Benefits

- Nearly \$300,000 spent locally, using local supplies and labor when possible
- Approximately 3 jobs created during construction/1 job maintained and enhanced during project life

NEXT STEPS

The Happy Camp CSD will continue to replace aging infrastructure as funds allow in pursuit of good quality water supply reliability for the Happy Camp community.

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ACKNOWLEDGEMENTS

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