

June Lake Water Treatment Plant – Ion Exchange Project Work Plan for Proposition 84 Round 3 Funding Request April 30, 2015

Introduction – Goals and Objectives

The June Lake Public Utility District is confronted with a **Water Quality** issue as it relates to the uranium content in June Lake, which is an approved surface water source for the District. Over the last 3 years we have been experiencing higher uranium test results that have now exceeded what the State allows. We believe this is a result of reduced lake level due to the ongoing drought conditions and decomposing natural materials within the lake that increases uranium levels.

This project is extremely important as we are a small rural water purveyor that has access and permitted water rights to the June Lake water source that cannot be used due to the high uranium content. If the drought continues we expect the uranium levels to increase from current levels of 24 pCi/L, again this is due to reduced lake level. Domestic water supply for the June Lake Public Utility District has been very challenging in that we operate our Down Canyon and Village systems solely on surface water, due to the continuing drought and approximate 5% snowpack we are expecting our creek water sources to be extremely low for 2015.

We have attempted to use an alternative water source in blending the Snow Creek water plant and the June Lake water plant to reduce the uranium content in the blended waters. This has worked for the short term, however if the Snow Creek plant is offline for any reason we would be forced to use the June Lake water plant with uranium content that exceeds the State requirements of 20 pCi/L.

We have researched and been provided a proposal for an Ion Exchange system that could be installed as 1 unit that would connect to our incoming raw water supply, process the raw water through the ion exchange filtration system then through our normal microfiltration process and subsequently pumped to our June Lake storage tank for domestic use. Current filtration rates are approximately 200 GPM and we are required to have an Ion Exchange system sufficient to treat raw water supply at this flow rate. We believe this project is fairly straight forward in that there would be minimal construction since the unit could be set in place, connected for power, influent and effluent water connections then could be put into service. This project would require an amended special use permit from the US Forest Service to allow us to install the 20' x 8' x 9.5' container or (POD) adjacent to our existing June Lake water plant. We would also be required to amend our current standard operating plan for the June Lake water treatment plant which would include the use of the Ion Exchange system, approval by CDPH (California Department of Public Health) would also be required. We expect that CEQA would be exempt through categorical exemption.

Budget Category (a): Direct Project Administration Costs

Task 1: Administration

Monitor Project progress and submit invoices as required on a monthly basis.

Task 2: Labor Compliance Program

June Lake PUD to follow California State labor compliance guidelines

Task 3: Reporting

June Lake PUD will prepare and submit monthly progress reports on project status

Budget Category (c) Construction Administration

Task 4: Construction Administration

June Lake PUD will monitor and sign off on all construction activities over the project duration.

Budget Category (b) Planning/Design/Engineering/Environmental Documentation

Task 5: Assessment and Evaluation

Planning and design is complete, June Lake PUD will supply the design standard with our submittal to DWR, see attached Uranium Removal Treatment Skid.

Task 6: Environmental Documentation/CEQA

These upgrades to an existing facility are exempt from the provisions of the California Environmental Quality Act (Public Resources Code, Section 21000 et seq.) in accordance with Title 14, Section 15301, and page 207 of the California Code of Regulations. June Lake PUD will submit a request for categorical exemption.

Task 7: Permitting

June Lake PUD has submitted our request to the US Forest Service (Application form 299) to amend our existing Use Permit to allow the installation and operation of the Uranium Treatment Skid.

Budget Category (e): Construction/Implementation

Task 8: Construction Contracting

June Lake PUD intends to contract with AdEdge Water Technologies.

Task 9: Construction

AdEdge will provide contracting services to deliver, unload, place, install, power connection, water source connection and test cycle for water sample compliance as part of the overall construction process.

Project Schedule

Submit request to amend Use Permit, US Forest Service – January – February 2016

Order Uranium Removal Skid – AdEdge Water Technologies – January – March 2016

Install and connect system to existing facilities – AdEdge Water Technologies – April 2016

System Check and Water Sample Compliance – AdEdge Water Technologies – April – May 2016

Submit All Invoices and Project Completion to DWR for reimbursement – June 2016

Project Life Expectancy – 30-40 Years

Submitted by: Richard Ciauri – General Manager, June Lake PUD

Table 8 - Project Budget
Proposal Title: Inyo-Mono IRWMP
Proposition 84 Round 3 Implementation Grant
Project Proposal

Project Title: June Lake Water Plant Uranium Removal POD					
Budget Category	(a) Non-State Share* (Funding Match)	(b) Requested Grant Funding	(c) Other State Funds Being Used	(d) Total	(e) % Funding Match
(a) Direct Project Administration Costs	\$3,000	\$9,000	\$0	\$12,000	25%
(b) Planning Design Engineering	\$4,650	\$13,850	\$0	\$18,500	25%
(c) Construction Administration	\$1,300	\$4,000	\$0	\$5,300	25%
(d) Other Costs (Regional Coordination 1%)	\$538	\$1,612	\$0	\$2,150	25%
(e) Supplies/Equipment/Installation and start up of POD	\$41,250	\$123,750	\$0	\$165,000	25%
(f) Construction Contingency	\$2,670	\$8,005	\$0	\$10,675	25%
(g) Grand Total (Sum rows (a) through (f) for each column)	\$53,408	\$160,217	\$0	\$213,625	25%

*List sources of funding: Property tax revenue and interest income - Prepared by Richard Ciauri 4-2-2015

- (a) 235 hours @ \$51 per hour - \$12,000
- (b) Performing Engineering and Planning of System - \$18,500
- (c) 104 hours @ \$51 per hour - \$5,300
- (d) Other cost = 1% Contractual services to ensure project compliance, coordination and integration with other projects and the overall Inyo-Mono IRWM Plan Implementation
- (e) Consists of the Uranium Skid Cost as provided by AdEdge Water Technologies and all required Connection and Start Up Costs, \$165,000
- (f) Construction Contingency = 5% of Total Project Costs, \$10,675