

CIP and Project Prioritization for CSA 7 (Modified Table 24 of the CSA 7 Water System Improvement Recommendation Report dated October 2015)

Report Priority	Facility Type	Item Description	Total Cost (2015)	New Priority (as of 11/30/16)	New Priority 1 Costs (\$) ⁷	New Priority 2 Costs (\$)	New Priority 3 Costs (\$)	New Priority 4 Costs (\$)	New Priority 5 Costs (\$)	New Priority 6 Costs (\$)	New Priority 7 Costs (\$)	Status (as of 11/30/2024)	
<i>Regulatory & Improved Reliability Repair (Immediate List)</i>													
1	Water Treatment	Chemical Containment	\$21,000	1	\$1,109,482							Construction Start Date: 11/12/2018 Installed Components: Treated water tank flexible coupling connection; Aeration system piping, vents, and pump; Raw water tank piping, check and pressure valves; Treatment plant chemical containment, polymer feed conduit, wye fitting and screen, electrical modifications; Testing & commissioning. Construction Completion Date: 9/3/2019 Aeration System Commissioning: Dec. 2019	
	Water Treatment	DBP Compliance – Custom-Built Spray System	\$120,000	1									
	Water Tank	Seismic Retrofit of Pipe Connection of Steel Tank	\$28,000	1									
<i>Operational Reliability & Redundancy for Aging Infrastructure List (Intermediate List)</i>													
2	Water Source	Additional Source of Raw Water ⁵	\$1,336,000	4		\$150,199	\$250,000	\$733,000	\$353,000			In December 2022, CSA 7 completed the drilling of the proposed test well in the Memory Lane area. The result was that no water was encountered. The test well has been abandoned per the requirements of San Mateo County Environmental Health Services Department. CSA 7 to proceed with finding a suitable site for an intake on La Honda Creek and initiate discussions with the appropriate stakeholders once additional funding is identified.	
	Water Treatment	Flocculation Chamber Recoating ^{1*}	\$10,000	2		\$410,998						Project Scope of Work: 1. Add tanker truck potable water delivery point and pump at WTP; Permanent emergency generator - Completed 2. Replace filter media - Completed 3. Inspect/replace filter underdrain piping - Completed 4. Recoat treatment chamber interior/exterior - Completed 5. Replace failed filter valves - Completed Emergency generator commissioning scheduled for Dec. 19, 2024. Contractor addressing punchlist items. Project completion expected in December 2024.	
	Water Treatment	Change Sand Media of Sand Filters ^{1*}	\$25,000	2		\$1,325,964							
	Water Storage	New Code Compliant Raw Water Steel Tank ^{1,2}	\$137,000	2					\$137,000				Raw Water Storage/Treatment Plant Alternative Project Study draft report in review
	Water Distribution	Northern Area Water Distribution System ⁴	\$696,000	3		\$747,664							Project Scope of Work: 1. Topographic survey - Completed 2. Geotechnical & utility investigations - Completed 3. Feasibility and constructability evaluation - Completed 4. County water standards review & update - Draft details in review 5. Plans & specifications - In progress; CalTrans encroachment permit secured. 6. Test well drilling - Completed 7. CEQA permitting review - In progress Scope of work from Water Works Engineers received on 12/4/24 for 100% design of relocation of water main and construction management services with Not-to-Exceed estimate of \$640,121.
<i>Redundancy & Replacement of Aging Infrastructure (Long-Term List)</i>													
3	Water Treatment	Pressure Filter Vessels ¹	\$196,000	7							\$196,000	TBD	
	Water Storage	Solids Contact Clarifier ^{1,2}	\$607,000	7							\$607,000	TBD	
	Water Distribution	“Looping” Water Main ⁶	\$822,000	5	\$288,991	\$102,445						Part A - Water main (600 lf) replacement on upper Pope Road completed in September 2019; Part B - See update to Northern Area Water Distribution System project.	
	Water Distribution	System-wide Replacement ³	\$2,214,000	6						\$2,214,000		TBD	
TOTAL COST =			\$6,212,000		\$1,398,473	\$2,737,270	\$250,000	\$733,000	\$490,000	\$2,214,000	\$803,000		

Highlighted cells denote information modified since last quarterly meeting.

See back page for notes and project descriptions.

\$ Final project costs.

* Estimated construction cost of WTP plant improvements to be \$500,000 (95% design)

Original total estimated cost of new priorities 1-5 to be funded with \$3,676,000 County Allocation.

Estimated new priorities to be funded with all County Allocation (\$8,173,190).

Notes (Report):

1. If funding were available immediately, the Solids Contact Clarifier and Pressure Filter Vessel under Report priority 3 could be built in- lieu of the changing sand media and filter, constructing the new raw water steel tank and recoating a flocculation chamber listed under Report priority 2. CSA 7 could realize a long term savings of approximately \$172,000, but at the expense of \$803,000 capital investment now.
2. If funding were available immediately to construct only the Solids Contact Clarifier under Report priority 3 in-lieu of the new raw water steel tank listed under Report priority 2. CSA 7 could realize a long term savings of approximately \$137,000, but at the expense of a \$607,000 capital investment now.
3. This total does not includes \$696,000 for Northern Area Water Distribution System piping, which is assumed to be constructed under Report priority 2 work. If northern area water distribution system is not replaced under Report priority 2, the cost for system-wide replacement under Report priority 3 will increase by the amount of replacing the northern area water distribution system (\$696,000).

Notes (New):

4. Northern Area Water Distribution System consists of approximate 5,500 linear feet of new 4-inch diameter pipes on La Honda Road (SR 84) from the crossing at west of Pescadero Creek Road to Memory Lane.
5. Additional Source of Raw Water has been separated into 2 components: Part A - Test Well and Preliminary Design; and Part B - Final Design and Permenante Well Development. Part A is to be done concurrently with the Northern Area Water Distribution System improvement to potentially include the installation of a parallel pipe for routing raw water from the new well to the treatment plant for treatment, if necessary. For the same reason, Part B has been prioritized ahead of the "Looping" Water Main project.
6. "Looping" Water Main consists of approximate 6,500 linear feet of new 4-inch diameter pipes along Pescadero Creek Road between La Honda Road (SR 84) near Trailer Park and the Alpine Creek bridge.
7. Revised estimate for Priority 1 project includes costs to date, constuction contract, construction management and inspection.

Abbreviations:

DDW - State Water Resources Control Board Division of Drinking Water

TBD - To Be Determined

DBP - Disinfection Byproduct