

**TUOLUMNE UTILITIES DISTRICT
FY 18 CAPITAL IMPROVEMENT PROGRAM
STATUS-AT-A-GLANCE AS OF OCTOBER 24, 2017**

| Project | Water | Sewer | Map Location | Description | FY18 Budget | Total Project Cost | Status | Status Code |
|--|-------|-------|--------------|--|-------------|--------------------|--|-------------|
| Phoenix Dam Improvements-Phase 1 | | | 1 | Scope of work for improvements to Phoenix Lake Dam in accordance with annual Division of Safety and Dams inspection. | \$25,000 | | TUD plans to hire a consultant to design the repairs. At this point a consultant has not been selected. | G |
| Phoenix Lake Preservation and Restoration Plan | | | 2 | The budgeted amount reflects ancillary costs such as consultant travel, lodging, etc., which are not eligible for reimbursement under the grant program. | \$5,000 | \$6.1 million | Permit acquisition is on-going. Plans are approximately 70% complete. Sediment samples were collected on the lake in September. (Note: Grant funding received: \$4.75 million. TUD cost: \$1.2 million) | G |
| Annual Ditch Improvements | | | 20 | Annual maintenance to fix leaks, raise sidelines, clean weed choked areas, eliminate hazard trees, and repair spills at various locations along the ditch. | \$100,000 | \$500,000 | The California Environmental Quality Act (CEQA) review is underway. The Board adopted the CEQA document in September. | G |
| Crystal Falls Techite Replacement-Phase 1 | | | 3 | This project is the first phase of a project that will eventually replace 9,000 linear feet of Techite Pipeline from the Crystal Falls Water Treatment Plant down to Rhine Court. Replacement of this line will result in less labor, equipment and material costs associated with repair efforts multiple times per year. | \$260,000 | \$695,796 | Staff will be evaluating contracting for design and construction of the techite replacement in a multi-year phased approach to this capital improvement. Design will proceed in FY18. | G |
| Sonora Distribution Improvements | | | 4 | First phase of a multi-year effort to eventually replace 4,750 linear feet of old water mains within the city of Sonora (Green, Bradford, Stewart Streets) that have exhibited a high incidence of failure resulting in costly repairs. | \$225,000 | \$1.04 million | This project phase is scheduled to be completed in FY18. | G |
| Matelot Pipeline | | | 5 | This project will install a pipeline connecting the Matelot Reservoir to the Columbia Water Treatment Plant in order to greatly improve efficiency and raw water quality at the plant. | \$60,000 | \$395,000 | Topographic surveying and easement acquisition are on-going. | G |
| Ditch Meters | | | 21 | Install an estimated 550 battery operated mag meters (iPerf) and customer side gate valves on ditch turnouts throughout the system. | \$65,000 | \$126,500 | Staff is testing out 10 battery operated auto read meters for the next three months to see how well they function and will reassess the meters in December. | G |
| Upper Columbia Ditch Shoot Flume | | | 6 | Replace leaky exposed pipeline segments that are critical to deliver source water for 4,000 customers. | \$20,000 | \$180,000 | The Board adopted the CEQA document in September. Project will need to be rescheduled to the FY19 Ditch Outage. | O |

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| Apple Valley/Scenic View Intertie | | | 7 | This project involves the design, permitting, and right-of-way acquisition to undertake a multi-year effort to connect the Scenic View Water System to the Apple Valley Water System. The ultimate project will entail constructing a new tank, new water main, and controls. | \$60,000 | \$630,625 | The project is being developed and the District is working with PG&E to supply power to the location. | G |
| Upper Columbia Spill #1 | | | 8 | This cost will fund the environmental review and land acquisition. The project will replace a section of wrapped steel pipe spanning an unstable slope at Spill #1 of the Columbia Ditch. | \$20,000 | \$93,438 | The Board adopted the CEQA document in September. This project is now scheduled to be completed to coincide with ditch outage in Fall 2019. | O |
| Cuesta Heights Tank-Phase 1 | | | 9 | The first two phases of a 4-year project to design, construct and consolidate three water tanks into one 600,000 gallon treated water storage tank. The project will also replace the Saratoga Pump Station with a new pump station and improve system reliability and fire flow. | \$50,000 | \$2,281,876 | The CEQA document was adopted by the Board at the meeting in August. Staff has completed 90% of the application to the SWRCB SRF for funding. | G |
| Peer Review of Ditch Loss | | | | This project will evaluate existing ditch water loss studies to facilitate greater understanding of the quantity of water lost for various reasons along the open ditch system. Project will provide better insight on how to prevent or reduce water loss. | \$5,000 | | Staff continues to collect data from the parshall flumes. Once a sufficient amount of data has been collected, staff will conduct its analysis and seek peer review. | G |
| Enterprise Resource Program 70% | | | | New financial management and utility billing software system to replace existing system which is no longer supported by the software vendor. Project to be financed over several years. Budget represents the water fund's allocation of cost. Sewer share budgeted separately. | \$137,500 | \$396,000 | Staff has conducted on-site interviews and are evaluating the vendors through onsite visits with outside agencies. | G |
| O'Neil Tunnel Repairs | | | 10 | The O'Neil Tunnel, which conveys water from the Table Mountain Ditch upstream of the O'Neil Reservoir, may be registering ground movement at the exit of the tunnel. A geotechnical engineer will conduct an assessment of the tunnel and to recommend methods to stabilize the tunnel. This budgeted amount includes identified necessary repairs. | \$100,000 | \$100,000 | Based on analysis performed by Condor Earth Technologies staff is reviewing options for project completion. | G |
| General Distribution Improvements | | | 22 | This project funds the cost of water distribution improvements that may be installed from year to year in areas affected by leaks and breaks and for which a larger improvement is deemed necessary in lieu of only an instant repair. | \$50,000 | \$50,000 | This funding is used for ad hoc repairs at they arise from time to time. | G |
| Vehicle Replacement | | | | Replacement of trucks (4) and trailers (3) and exhaust brakes (2 vehicles). Budget represents the water fund's allocation of cost. Sewer share budgeted separately. | \$251,000 | \$391,000 | In progress. | G |

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| Capital Outlay Projects (Under \$50,000) | | | | Some items include hydraulic breaker for backhoe and excavator, trench plates, valve insertion machine, grizzly rock screen and separator, Sonora Vista tank power and telemetry. Budget represents the water fund's allocation of cost. Sewer share budgeted separately. | \$213,000 | \$279,000 | In progress. | G |
| Columbia Clearwell Rehab | | | 11 | Recoat the interior and exterior of clearwell. | \$275,000 | \$717,563 | The Board approved the contract in August with West Coast Industrial Coatings Inc. to begin the Columbia Clearwell Rehabilitation Project. The inspection has been completed and construction has started. | G |
| General Raw Water System Improvements | | | 23 | Project to provide interim water supply to Upper Basin Water System to offset storage lost at Lakewood Dam Reservoir. | \$250,000 | \$250,000 | Staff has completed a temporary pump station to take water from THCS D. Staff continues to work with FEMA on the Lakewood Dam improvement project. | G |
| San Diego Dam Outlet Lining | | | 12 | Per the Division of Safety of Dams requirements install 150 feet of new 8" CIPP with new intake screen and valve. | \$25,000 | \$25,000 | Division of Safety of Dams has requested additional testing to determine the condition of the outlet pipe. Once the testing is complete TUD will propose a rehabilitation strategy for the pipe. Work would not likely occur until Spring/Summer 2018. | G |
| Shaws Flat Pipeline at Pedro Y | | | 13 | Relocation to accommodate a County project per Caltrans requirements. TUD is working with County and Caltrans to determine scope of relocation. | \$250,000 | \$250,000 | Staff continues to coordinate with Tuolumne County and Caltrans to determine the scope of our utility relocation. Construction anticipated to occur in Spring 2018. | G |
| Jamestown Transmission Main Replacement | | | 14 | To install 1,500 linear feet of 14-inch pipeline to replace a 14-inch asbestos cement pipe that is approximately 60 years old and serves as the sole source of water to the Jamestown service area. Amount not covered by CDBG. | \$130,000 | \$130,000 | Pipe has been purchased. The Board has adopted the CEQA document. | G |
| Algerine Ditch Slum Dam | | | 15 | CEQA and permitting. | \$25,000 | \$25,000 | The Board adopted the CEQA document in September. | G |
| Crystal Falls Pump Station and Retaining Wall | | | 16 | Permitting, removal of pump station, and repairs to retaining wall. | \$100,000 | \$100,000 | Project to be completed in FY18. | G |

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| TUD Centralized Facility Repairs 70% | | | 25 | Construct needed improvements including fire sprinkler system repairs, landscaping, carpet replacement, pavement maintenance, installation of water efficient fixtures, and audio/visual upgrades to the Board and Conference Room. Budget represents the water fund's allocation of cost. Sewer share budgeted separately. | \$175,000 | \$250,000 | Resurfacing of the pavement at the TUD main facility and operational areas has been completed. All other work is in progress. | G |
| Section 4 Ditch - Ryan Ct. Improvements | | | | This project entails removing pipe and establishing open ditch to the area. | \$18,000 | \$18,000 | This project has been completed. | DB |
| TOTAL WATER PROJECTS CIP FY | | | | | \$2,876,500 | | | |
| RWWTP Improvement-Phase 1 | | | 17 | Construct improvements to the treatment processes at the Sonora Regional Wastewater Treatment Plant. | \$330,000 | \$3.9 million | Recently installed equipment at the Regional Plant includes: Center Cans, a gear box, motors, and drives on the trickling filter distributor arms. | G |
| General Collection System Lining | | | 24 | This project reflects TUD's annual investment in rehabilitating select segments of its sewer collection system by using cured-in-place pipe. | \$120,000 | \$585,000 | The Board awarded the contract in September, work will be complete by the end of the year. | G |
| General Collection System Improvements | | | 24 | Repair and replace segments of pipe throughout the collection system as identified by CCTV inspections and action requests generated by sewer backups or overflows. Work is undertaken by TUD staff. | \$100,000 | \$550,000 | Ongoing work as needed. | G |
| Columbia Country Estate Lift Station Replacement | | | 18 | To construct a new sewer lift station to replace the old lift station. The new lift station will also have a generator, backup pumps, and an overflow sump in the event of a mechanical failure. | \$120,000 | \$207,000 | Sumps and vault have been installed. Plumbing improvements are being made at the lift station. | G |
| Enterprise Resource Program 30% | | | | New financial management and utility billing software system to replace existing system which is no longer supported by the software vendor. Project to be financed over several years. Budget represents the sewer fund's allocation of cost. Water share budgeted separately. | \$62,500 | \$396,000 | Staff has conducted on-site interviews and are evaluating the vendors through onsite visits with outside agencies. | G |
| Saratoga Lift Station Replacement | | | 19 | To construct a new sewer lift station to replace the old lift station. The new lift station will also have a generator, backup pumps, and an overflow sump in the event of a mechanical failure. | \$60,000 | \$300,000 | Easement has been obtained. Due to the poor condition of the Columbia County Estates lift station, staff is focusing on improving it prior to the Saratoga Lift Station. The sumps and pumps have been ordered. Staff is reviewing submittals. | G |
| Replace Vacuum Truck #63 | | | | Current truck needs to be replaced due to CARB requirements. Current truck is undersized for the line length that the District crews are trying to clean. | \$140,000 | \$140,000 | A replacement truck for the wastewater department has been ordered. | G |

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| TUD Centralized Facility Repairs 30% | | | 25 | Construct needed improvements including fire sprinkler system repairs, landscaping, carpet replacement, pavement maintenance, installation of water efficient fixtures, and audio visual upgrades to the Board and Conference Room. Budget represents the water fund's allocation of cost. Sewer share budgeted separately. | \$75,000 | \$250,000 | Resurfacing of the pavement at the TUD main facility and operational areas has been completed. All other work is in progress. | G |
| Vehicle Replacement | | | | Replacement of trucks (4) and trailers (3) and exhaust brakes (2 vehicles). Budget represents the sewer fund's allocation of cost. Water share budgeted separately. | \$122,000 | \$122,000 | Sewer call truck has been put in service. | DB |
| Capital Outlay Projects (Under \$50,000) | | | | Some items include hydraulic breaker for backhoe and excavator, trench plates, grizzly rock screen and separator, compaction wheel, rock bins at RWWTP, etc. Budget represents the sewer fund's allocation of cost. Water share budgeted separately. | \$66,000 | \$279,000 | In progress. | G |
| TOTAL SEWER PROJECTS CIP FY | | | | | \$1,195,500 | | | |

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