

**TUOLUMNE UTILITIES DISTRICT  
FY 18 CAPITAL IMPROVEMENT PROGRAM  
STATUS-AT-A-GLANCE AS OF JUNE 12, 2018**

| Project  | Water | Sewer | Map No. | Map Location | Description  | FY18 Budget | Total Project Cost | Status   | Status Code |
|--|-------|-------|---------|--------------|--|-------------|--------------------|--|-------------|
| Phoenix Dam Improvements-Phase 1               |       |       | 4       | 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 |       |       | 4       | 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. CEQA document has been adopted. Sediment samples were collected on the lake in September. <b>(Note: Grant funding received: \$4.75 million. TUD cost: \$1.2 million)</b>       | G           |
| Annual Ditch Improvements                      |       |       | 18      | 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 Board adopted the CEQA document in September. Maintenance locations have been selected and field surveys are underway to prepare for work during the 2018 Ditch Outage. Staff will be making a presentation to the Board at an upcoming meeting. | G           |
| Crystal Falls Techite Replacement-Phase 1      |       |       | 5       | 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 start in FY19.  | 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     | The District has filed a CDBG application for funding in conjunction with the City of Sonora. Because of this funding opportunity, the project start date will be determined based on the CDBG funding determination process.                        | O           |
| Matelot Pipeline                               |       |       | 6       | 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. Cultural resources studies are currently underway to support the District's request for an easement from the State Parks.   | G           |
| Ditch Meters                                   |       |       | 18      | 21           | Install an estimated 550 battery operated mag meters (iPerl) and customer side gate valves on ditch turnouts throughout the system.  | \$65,000    | \$126,500          | Staff has completed testing of the meters and has ordered 165 meters to replace existing ditch meters. The meters will be replaced in accordance with staffing priorities and budget allocations.  | G           |
| Upper Columbia Ditch Shoot Flume               |       |       | 7       | 6            | Replace leaky exposed pipeline segments that are critical to deliver source water for 4,000 customers.   | \$20,000    | \$180,000          | An environmental consultant is currently doing preliminary CEQA work and then an engineering consultant will be selected to start design.  | G           |
| 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          | A new PG&E electrical service has been installed and valving has been installed. The intertie should be operational within weeks to months. The new tank in Apple Valley needs to be designed and construction may begin in 2019.                    | G           |

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| Upper Columbia Spill #1                  |       |       | 7       | 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           | An environmental consultant is currently doing preliminary CEQA work and then an engineering consultant will be selected to start design.   | G           |
| Cuesta Heights Tank-Phase 1              |       |       | 8       | 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 funding application is complete and has been submitted to the SWRCB. TUD is awaiting an offer of funding. In anticipation of funding, TUD is moving forward with the design of the pipelines, tanks, and pump stations. | 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%          |       |       | 9       |              | 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          | Implementation planning is presently underway including surveys and schedule development. Tyler utility billing conversion analysts performed a three day on site visit from May 9-11, 2018.                                | 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          | The Board approved the concept of installing a pipe within an open tunnel. An environmental consultant is currently working on CEQA compliance and then TUD staff will finalize a design for construction in 2019.          | 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          | All four utility trucks have been put in service in various departments.  | DB          |
| 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          | Completed: hydraulic breaker for backhoe and excavator, trench plates, valve insertion machine, grizzly rock screen and separator.  | G           |
| Columbia Clearwell Rehab                 |       |       |         | 11           | Recoat the interior and exterior of clearwell.  | \$275,000   | \$717,563          | Complete and operational.   | DB          |
| 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          | The engineering consultant is approximately 80% complete with the design. The environmental consultant is completing spring field surveys to support permit applications. Construction is expected in 2019.                 | G           |

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| 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           | TUD has received approval from DSOD to simply monitor the condition of the pipe with future camera inspections. No lining or rehabilitation is required at this time.   | 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          | TUD staff are completing the design for the relocation and will be including this with the County's bid package. The County anticipates circulating for bids in June 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. Work will be done by TUD crews in coordination with the contractor for the Jamestown Reservoir.   | 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          | This project is scheduled to be completed in FY18. Staff may approach this project in phases, beginning in late summer (FY19).  | O           |
| 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           |
| Replacement and Upgrade of Server and Storage Infrastructure 70% |       |       |         |              | The District is replacing and upgrading its servers and storage infrastructure. The Board approved a budget transfer to move forward with this project on March 27, 2018.   | \$150,500          | \$215,000          | Equipment has been ordered and is being installed as it is received.  | G           |
| Section 4 Ditch - Ryan Ct. Improvements                          |       |       |         | 14           | This project entails removing pipe and establishing open ditch to the area.   | \$18,000           | \$18,000           | The first phase of this project has been completed which consisted of removing 100 feet of CMP pipe, re-establishing the ditch and applied shotcrete. Phase II is scheduled to be completed this year and includes removing approximately 180 feet of steel pipe, re-establish the ditch and apply shotcrete. | DB          |
| <b>TOTAL WATER PROJECTS CIP FY</b>                               |       |       |         |              |   | <b>\$2,876,500</b> |                    |   |             |
| 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. Staff are working with the Consultant to submit a construction funding application for Phase 1 of the improvements at the RWWTP.                           | G           |

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| 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          | Over 1,635 linear feet of sewer pipeline has been lined this fiscal year. This project has been completed.  | DB          |
| 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 Estates 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          | Project is complete and operational. TUD crews still need to abandon the old facility.  | DB          |
| Enterprise Resource Program 30%                                  |       |       | 9       |              | 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          | Implementation planning is presently underway including surveys and schedule development. Tyler utility billing conversion analysts performed a three day on site visit from May 9-11, 2018.  | G           |
| Saratoga Lift Station Replacement                                |       |       | 17      | 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          | Staff are working with PG&E to acquire a new electrical service. Quotes have been received for new sumps and pumps. Staff anticipate ordering these items within the next few months and then TUD crews can construct the facility in 2019. | 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          | The vacuum truck has been received and put into service.  | DB          |
| 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           |
| Replacement and Upgrade of Server and Storage Infrastructure 30% |       |       |         |              | The District is replacing and upgrading its servers and storage infrastructure. The Board approved a budget transfer to move forward with this project on March 27, 2018.   | \$64,500           | \$215,000          | Equipment has been ordered and is being installed as it is received.  | 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          | Completed: hydraulic breaker for backhoe and excavator, trench plates, valve insertion machine, grizzly rock screen and separator.  | G           |
| <b>TOTAL SEWER PROJECTS CIP FY</b>                               |       |       |         |              |   | <b>\$1,195,500</b> |                    |   |             |

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