

Capital Improvement Program

Ten-Year Plan – Fiscal Years 2022-2031 Two-Year Budget – Fiscal Years 2022-2023



Capital Improvement Program

Ten-Year Plan For Fiscal Years Ending 2022 through 2031

Two-Year BudgetFor Fiscal Years Ending 2022 and 2023

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Executive Summary

Capital Improvement Program Overview

The Capital Improvement Program (CIP) is a capital investment plan to maintain and enhance the Dublin San Ramon Services District's ("District" or "DSRSD") infrastructure. The CIP serves as a guide for identifying current and future projects in support of the District's mission to protect public health and the environment by providing reliable and sustainable water, recycled water, and wastewater services in a safe, efficient, and fiscally responsible manner. The CIP is also the planning instrument used to coordinate the financing and timing of improvements, with the ultimate goal of maximizing the return to customers.

The CIP consists of the Ten-Year Capital Improvement Plan ("Plan") and the Two-Year Capital Improvement Budget ("Budget"). The Capital Improvement Plan serves to identify, prioritize, and schedule capital projects for the ten-year period, and establish a plan for generating the financial resources needed to complete these capital projects. The first two years of expenditures in the Capital Improvement Plan comprise the District's Two-Year Capital Improvement Budget for Fiscal Years 2022 and 2023. By adopting the Capital Improvement Budget, the Board:

- Authorizes total budgets for the individual capital projects.
- Authorizes the initiation of project expenditures in either fiscal year 2022 or 2023.
- Establishes the maximum expenditures from each fund for fiscal years 2022 and 2023.

Capital Improvement Program Process

The development of the CIP is a coordinated process, occurring every two-years, and beginning with District staff identifying projects and preparing related descriptions, schedules, and cost estimates. Projects may be identified in a master plan, study, or the asset management replacement model. Projects are also included to meet an upcoming regulatory requirement, or as a staff recommendation. Project requests are submitted for evaluation by the District Engineer.

Several factors are considered in developing the CIP, including the District's Strategic Plan and established District Policies, the need to meet a regulatory mandate or requirement, the impact to the District's capital fund reserves, and balancing project scheduling with available staffing resources. The recommended CIP is compiled and presented to the General Manager for review and input. The recommended CIP is next reviewed by the Board of Directors ("Board") at a work session, where the public has an opportunity to provide comments before final adoption by the Board at a public hearing in late May or early June.

Capital Improvement Program Projects, Programs, & Capital Outlay

The CIP includes Projects, Programs, and Capital Outlay, each of which are described below:

- 1. **Projects:** A CIP project is defined as an infrastructure project which is; 1) non-recurring in nature; 2) has a minimum cost of \$15,000; 3) results in a new asset that has a useful life of at least three years or extends the useful life of an existing asset by at least three years; and 4) requires project management, typically requiring compliance with the California Public Contract Code. A common example of a CIP project is a water or wastewater collection pipeline replacement.
- 2. **Programs:** A CIP program sets aside money to fund projects that are anticipated but do not yet have definitive scope and budget. For example, a major water main might need unexpected replacement, and the associated program would fund the creation of a modest-scale replacement project when the need arose. The amounts set aside are based on Asset Management replacement models. The Asset Management models includes assumptions about the useful life of each asset, which identifies when an asset would need to be repaired or replaced and calculates an estimated cost to do so. Once a specific scope of work and budget is developed, a project can be created from the CIP program. An example of an Asset Management model based program is the Regional Wastewater Treatment Facility Replacement and Rehabilitation Program (00-P026). Other programs set aside funding for a particular District initiative which may ultimately fund more than one individual CIP project. An example of a District specific initiative program is the Long-Term Water Resiliency Program (00-W002).
- 3. **Capital Outlay:** Capital outlay is for replacing or adding an asset that has a minimum total cost of \$10,000 and a useful life of at least three years. Capital Outlay is typically the purchase of one item. An example of capital outlay is the replacement of a vehicle. A detailed list of capital outlay in the Two-Year Budget is provided in Appendix A.

Capital Replacement and Expansion Funds

The District has three business enterprises: local wastewater collection, regional wastewater treatment and water. Each business has two capital funds: replacement and expansion. A key distinction is that replacement funds are largely funded by rate revenue from existing customers, while expansion funds are funded by fee revenue from new development.

A CIP project can have more than one funding source depending on the project scope, and as determined by the Board's Project Cost Allocation Policy. The Capital Improvement Program outlines the capital expenditures planned in the replacement and expansion funds. A more detailed discussion of each fund occurs later in Chapter 3.

Local Wastewater Replacement (Fund 210) — The funding source to replace and improve local sewer facilities to handle existing wastewater flows. Facilities include trunk sewer lines, lift stations, and related appurtenances that transfer wastewater from the point of origin to the regional wastewater treatment plant.

Local Wastewater Expansion (Fund 220) – The funding source to expand or add local sewer facilities to accommodate increased wastewater flows from new development.

Regional Wastewater Replacement (Fund 310) – The funding source to replace and improve the regional wastewater treatment plant to process existing wastewater flows before further treatment for recycled water or transit through the LAVWMA pipeline to the San Francisco Bay for disposal.

Regional Wastewater Expansion (Fund 320) – The funding source to expand or add to the regional wastewater treatment plant and related appurtenances that process future wastewater flows.

Water Replacement (Fund 610) – The funding source to replace and improve facilities to treat recycled water, as well as the pipelines, pump stations, reservoirs, and related appurtenances to distribute potable water and recycled water.

Water Expansion (Fund 620) – The funding source to expand or add facilities to treat recycled water and to distribute potable and recycled water.

Fiscal Year 2022-2031 Capital Improvement Program At-A-Glance

The total budget for the Ten-Year Plan for Fiscal Years 2022 through 2031 is \$281.2 million and is comprised of 113 projects and programs. The Two-Year Budget for Fiscal Year 2022 and 2023 is \$72.9 million and is comprised of 66 projects and programs.

Table 1 – CIP Expenditures by Fund (\$1,000's)

Fund	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	10-Year Total
Local Replacement	1,655	1,325	1,172	1,284	1,097	3,572	859	1,569	399	399	13,329
Local Expansion	-	100	830	1,300	175	500	-	-	275	2,557	5,737
Regional Replacement	9,902	6,557	3,795	10,017	4,624	3,574	6,789	7,674	13,074	14,474	80,479
Regional Expansion	4,934	1,166	661	-	2,358	2,525	12,120		6,094	3,000	32,858
Water Replacement	11,310	13,233	6,760	8,553	3,393	10,958	9,705	8,743	12,193	21,543	106,379
Water Expansion	8,701	14,049	13,087	965	125	720	375	625	625	3,125	42,397
Annual Total	36,502	36,420	26,305	22,119	11,772	21,849	29,848	18,610	32,659	45,097	281,179

Figure 1 – CIP Expenditures by Fund

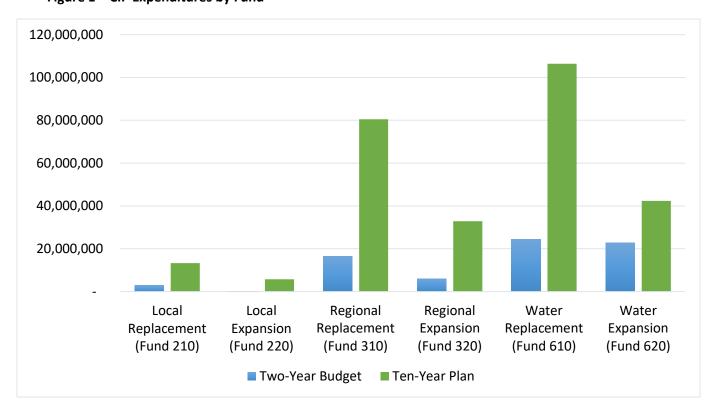
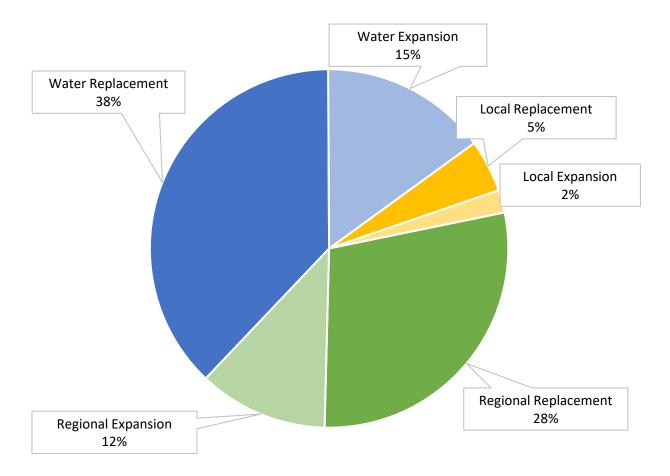


Figure 2 – Ten-Year CIP Expenditures by Fund

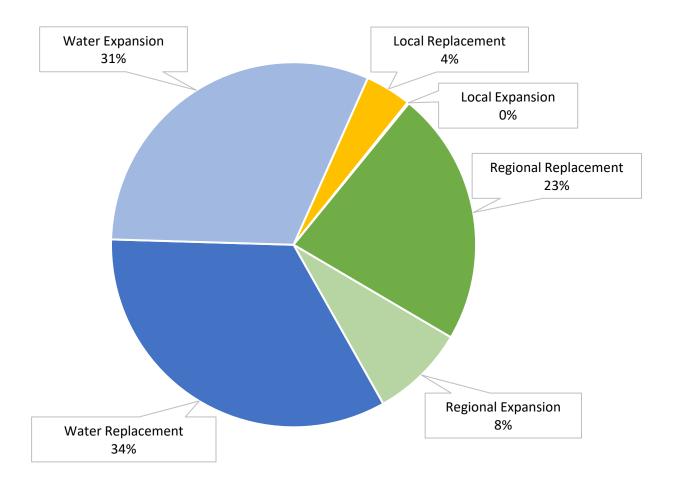


The total budget for the Ten-Year Plan for Fiscal Years 2022 through 2031 is \$281.2 million and is comprised of 113 projects and programs. In the Ten-Year Plan, Local wastewater collection projects account for 7 percent of the total expenditures. Regional wastewater treatment projects account for 40 percent of the total Ten-Year Plan expenditures. Water system projects comprise over half of the total expenditures (53 percent) in the Ten-Year Plan.

Replacement projects account for 71 percent of the total Ten-Year Plan expenditures. The share of Local Wastewater Collection, Regional Wastewater Treatment, and Water System replacement projects as a percent of the total Ten-Year Plan is 7 percent (Local), 40 percent (Regional), and 53 percent (Water).

Expansion projects account for 29 percent of the total CIP Ten-Year Plan expenditures. The share of Local Wastewater Collection, Regional Wastewater Treatment, and Water System expansion projects as a percent of the total Ten-Year Plan is 7 percent (Local), 41 percent (Regional), and 52 percent (Water).

Figure 3 - Two-Year CIP Expenditures by Fund



The Two-Year Budget for Fiscal Year 2022 and 2023 is \$74.2 million and is comprised of 66 projects and programs. In the Two-Year Budget, Local wastewater collection projects account for 4 percent of the total expenditures. Regional wastewater treatment projects account for 31 percent of the total CIP Two-Year Budget expenditures. Water system projects comprise the majority (65 percent) of the total Two-Year Budget expenditures.

Replacement projects account for 60 percent of the total Two-Year Budget expenditures. The share of Local Wastewater Collection, Regional Wastewater Treatment, and Water System replacement projects as a percent of the total Two-Year Budget is 7 percent (Local), 37 percent (Regional), and 56 percent (Water).

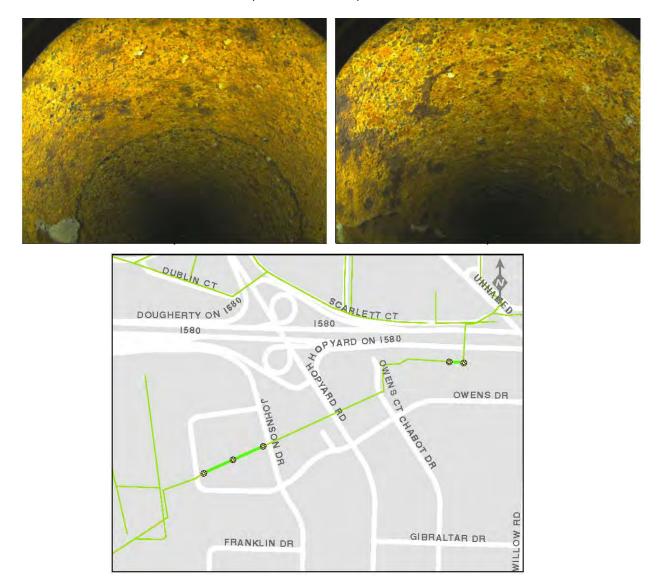
Expansion projects account for 40 percent of the total CIP Two-Year Budget expenditures. The share of Local Wastewater Collection, Regional Wastewater Treatment, and Water System expansion projects as a percent of the total Two-Year Budget is 0.3 percent (Local), 21 percent (Regional), and 79 percent (Water).

Project Highlights

Below are high priority projects, organized by business enterprise, to provide a sense of the anticipated efforts of the District staff over the next two-years.

Local Wastewater Collection

East Dublin 36" Trunk Sewer Rehabilitation (20-S013). This project will rehabilitate approximately 670 feet of an existing 36-inch reinforced concrete pipe (RCP) of the East Dublin trunk line. The pipe was installed in 1960. As part of the asset management program for the collection system, a large diameter sewer inspection project evaluating the condition of the collection system trunk lines was completed in late 2013. The sewer showed corrosion and significant spalling. The first pipe reach is in an easement that begins just west of Johnson Drive (about 500 feet north of Owens Drive) and continues west almost to Owens Drive. The second pipe section is in an easement just south of I-580 between Owens Court and the Pleasanton BART parking lot (behind Dahlin Group Building). The section between was lined in 1993 and is in fair condition at this time. This project is funded from the Local Replacement fund with a total estimated cost of \$1.2 million and is expected to be completed in Fiscal Year 2022.



Regional Wastewater Treatment

WWTP SCADA Improvements (05-3206). This project will upgrade the WWTP Supervisory Control and Data Acquisition (SCADA) communication network, replace and program the programmable logic

controllers (PLCS), replace the servers, install a new database repository for historical data and acquire a web portal to view SCADA data over the District's business network, upgrade the notification and reporting software, upgrade the plant's fiber optic communications network and replace the variable frequency drives for 9 pump motors. This will involve project complex construction sequencing to allow for



parallel SCADA systems during implementation as the plant processes cannot be interrupted. It will also require thorough testing of the PLC programming and communication system to assure reliable plant operation after implementation to the new system. A design-build project delivery method will be utilized for this project. This project is funded from the Regional Replacement fund with a total estimated cost of \$4.66 million and is expected to be completed in Fiscal Year 2023.

Biogas Treatment System Improvements (16-P028) & Biogas Flare Improvements (18-P010). Biosolids in the digesters at the Regional Wastewater Treatment Plant generate biogas. The biogas is scrubbed and



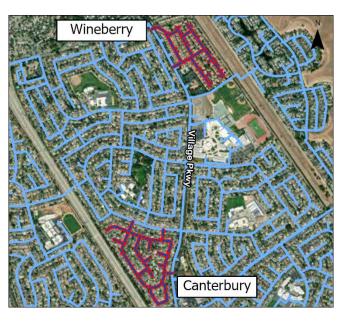
pressurized and then conveyed to cogeneration engines which generate electricity to power the plant and create heat that is used to maintain the temperature of the biosolids in the digesters at approximately 98°F. This project will evaluate the existing biogas scrubber and make recommendations to improve the existing scrubber or replace it. Clean biogas improves engine efficiency and assists in meeting Bay Area Air Quality Management District regulations at cogeneration. When the new primaries, and the fats, oils and grease (FOG) station are put into operation, additional solids will be collected for digestion, increasing biogas production. Since the existing biogas scrubber is currently working at capacity. Any additional gas will need to be cleaned prior to sending it to cogeneration. The project is funded 67 percent from the Regional Expansion fund and 33 percent from the Regional Replacement fund with a total estimated cost of \$4.43 million and is expected to be completed in Fiscal Year 2023.

Related to the biogas system improvements is the replacement of the biogas flare. Typically, all biogas is used to power the cogeneration engines after the gas is scrubbed. If the gas scrubber is out of service, or if cogeneration is offline, biogas must be vented to prevent over pressurization of the digesters. The flare cleanly burns the biogas under a Bay Area Air Quality Management District (BAAQMD) permit. The project is funded from the Regional Replacement fund with a total estimated cost of \$1.56 million and is expected to be completed in Fiscal Year 2023.

WWTP Energy Master Plan (22-P009). The District's 2021- 2026 Strategic Plan includes a goal to develop a long-term strategy ensure greater energy efficiency and reliability for the district. This Plan will develop energy demands and a strategy to meet those demands through self-generation and PG&E power. More specifically, the plan will install additional power monitoring devices to develop energy use baselines for energy intensive processes and equipment; determine normal and standby power needs for current facilities and anticipated plant upgrades and expansion; evaluate potential process or equipment changes to reduce the energy demand of energy intensive processes including the secondary aeration process and the biosolids thickening process; quantify the impact of DERWA energy demands on the District's energy costs; determine the optimal current cogeneration capacity and develop a facility plan for current and future cogeneration; evaluate the potential for solar energy to complement the cogeneration system; and evaluate the potential of current battery technology to reduce peak energy demands. The project is funded from the Regional Replacement fund with a total estimated cost of \$800,000 and is expected to be completed in Fiscal Year 2022.

Water System

Water Line Replacements – Wineberry & Canterbury Area (16-W017). This project will replace approximately 10,900 feet of existing asbestos concrete pipe (ACP) potable water lines, services, and appurtenances on in the Wineberry Way and Canterbury Lane area of central Dublin. The lines were installed in 1961, and there is a history of leaks and water service repairs in the area. Acoustic testing and testing of pipe samples in the area indicate the pipes have lost approximately 25 percent of their structural thickness indicating the lines are near the end of their useful lives and therefore should be replaced. This project is funded from the Water Replacement fund with a total estimated cost of \$6.9 million and is expected to be completed by Fiscal Year 2023.



Turnout 6 (20-W015). The District receives its treated water supply from the Zone 7 Water Agency through turnouts on the Zone 7 water transmission system. This project will provide water supply for development in eastern Dublin by constructing a new turnout from Zone 7 Cross Valley Pipeline south of I-580 at Pimlico Drive. Construction of the turnout adds redundancy and improves reliability of the distribution system by having a secondary source turnout to supply eastern Dublin should there be a failure of Zone 7 Water Agency's Santa Rita Pipeline. This project is funded from the Water Expansion fund with a total estimated cost of \$9.5 million and is expected to be completed by Fiscal Year 2023.



Pump Station 1A Rehabilitation (20-W025). This project will upgrade or replace Pump Station 1A. Pump Station 1A pumps water from the Zone 7 water system to the District's Zone 1 distribution system on the west side. The suction and discharge manifolds configurations are inefficient and cause and pump

cavitation. The project will evaluate upgrading or replacing the pump station at the existing location versus relocating it at the Turnout 1 site. Fluoride storage and injection equipment housed at the facility will also be upgraded. This project is funded from the Water Replacement fund with a total estimated cost of \$6.7 million and is expected to be completed by Fiscal Year 2024.



Chapter 1: Long-Term Capital Planning

CIP and Strategic Plan Nexus

The Capital Improvement Program (CIP) is integral to the achievement of the District's mission and implementation of the strategic plan. Development, approval, and implementation of the CIP accomplishes several District's Strategic Plan goals by providing specific projects and planned funding towards meeting the goals. Specifically, the CIP Plan and Budget supports the District strategic goals to maintain financial stability and sustainability and develop a fully integrated Asset Management Program to guide all the District's business decisions. The District's Asset Management Program identifies projects for the CIP Plan and Budget. In addition, it provides an overall estimate of expected expenditures over the CIP Plan timeframe and beyond to guide future rate operating budget and rate studies. Further information on the Asset Management Program is provide below.

The Strategic Plan goal to enhance the District's ability to respond to emergencies is advanced with the Potable Water Pump Station Standby Generators/Emergency Response project (16-W012) which will increase the reliability of the water distribution system in a power outage and the WWTP SCADA Improvements project (05-3206) which will provide robust and redundant communication between the WWTP processes.

The CIP also meets several of the action items under the Strategic Plan goal to develop and implement an integrated potable and recycled water program. Two programs, Capital Improvements to Increase Water Supply, Phases I and II, support the existing recycled water program and provide the funding for a future potable reuse project.

The Strategic Plan goal to develop a long-term strategy to ensure greater energy efficiency and reliability for the District will be evaluated with the addition of two new projects. The WWTP Energy Master Plan (22-P009) and Field Operations and District Facilities Energy Plan (T22-19) will evaluate current and future energy demands and develop strategies to increase energy efficiency while meeting energy demands.

Master Plans

The District develops master plans every five to ten years for each of its enterprises, Local Wastewater, Regional Wastewater and Water. The District also develops master plans for particular business needs, such as the Information Technology Master Plan and the Facilities Security Master Plan. The master plan planning horizons are typically 20 years. The proposed projects from these master plans are incorporated into the CIP. A summary of the studies and plans that have informed the CIP Plan and Budget include:

- Local Collection System Master Plan (2019)
- Wastewater Treatment and Biosolids Master Plan (2017)
- Water Master Plan (2016)
- Joint Tri-Valley Potable Reuse Technical Feasibility Study (2018)
- Long-term Alternative Water Supply Plan Update (2021)
- Information Technology Master Plan (2017)

Asset Management Program/Replacement Projects

The District has developed asset management models that estimate the rehabilitation and replacement year and cost for each asset based on the age and type of the asset. The renewal and replacement needs identified by the asset management models during the Ten-Year Plan are reflected in individual capital projects and programs. Using the models, staff identifies specific capital projects and funding to be included in the CIP Plan and Budget. Expenditures to account for projects that will be identified over the time frame of the plan are included in the rehabilitation and replacement programs.

To capture the expenditures beyond the Ten-Year Plan and assure that funding is available, the average estimated expenditures over the Ten-Year Plan plus the expenditures for the five years beyond the plan are averaged to create a fifteen-year expected annual average replacement expenditure estimate. This fifteen-year average is used to set the minimum capital replacement fund levels (see Financial Reserves section). Thus, the Capital Improvement Program reflects not only intermediate term capital projects, but also longer-term estimates of asset replacement needs.

The expected annual expenditures for the local collection, regional wastewater and water replacement funds for the next 30 years are shown in Figures 4 through 6. There is significant variability in the estimated expenditures from year to year. In the figures this variability has been normalized over several years to 1) reflect the variability in asset life (i.e. some pipes or equipment will fail earlier and some will fail later than its expected life), 2) better visualize the trend in expenditures, and 3) reflect a more realistic project implementation schedule.

Local Wastewater Collection - Replacement

The asset management model for the local collection system estimates the remaining life of a sewer pipeline based on the installation date of the pipeline and the material used. The remaining life of a sewer pipeline may also be revised based on inspection data. If inspection data shows the pipeline to be in good condition, the life may be extended. Conversely, when inspections reveal cracking or degradation of sewer pipelines, the remaining life is shortened based on the severity of the damage and the rehabilitation or replacement of that pipeline is accelerated.

Figure 4 shows the anticipated expenditures for sewer pipeline and replacements for the next 30 years. The replacement costs used in the model are based on rehabilitating the pipes through a combination of cast in-place lining and pipe replacement. In developing the current CIP, the model replacement costs were updated based on recent Bay Area construction bid data. In addition, the algorithm altering the remaining useful life was refined. The previous algorithm reduced the remaining life based on the pipeline condition too aggressively resulting in more anticipated pipeline replacements within the next ten to twenty years, with the refinement the anticipated pipeline replacement costs were shifted further into the future.

Peaks in replacement expenditures are largely driven by past surges in development, where large portions of the system were installed at a similar time, using similar pipe material. Given that many of the District's local collection assets were installed during a period of initial growth in the 1960s, those initial assets begin to reach the end of their useful life around 2050. Most of the pipe material of the original wastewater collection system is vitrified clay pipe.

Figure 4 shows a gradual increase in replacement costs starting in the latter half of the current Ten-Year Plan. These anticipated replacement costs are associated with pipelines that, based on inspection data, have cracking that may necessitate repair sooner than anticipated. However, the magnitude of damage is not significant enough to prompt a rehabilitation project in the near term. Some of the defects may be able to be fixed with a "spot repair" which can extend the pipeline useful life back to the original life expectancy. Staff will continue to monitor inspection data and update the model to address pipeline rehabilitation needs.

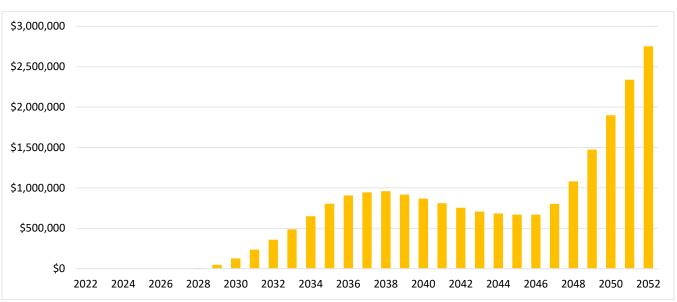


Figure 4 – Local Wastewater Collection Long-Term Replacement Costs

Regional Wastewater Treatment - Replacement

The regional wastewater treatment asset management model includes the structures, and equipment at the Regional Wastewater Treatment Plant. The anticipated Regional Wastewater replacement expenditures, shown in Figure 5, increase annually until approximately 2030, which is the 30-year anniversary of the Stage 4 Wastewater Treatment Plant Expansion Project. Beyond that timeframe, the expenditures drop somewhat and flatten out until 2039 but begin to increase thereafter through 2050.

Compared to previous versions of the model, the peak annual replacement costs have significantly decreased. One reason for this decrease is that the equipment associated with the primary sedimentation basins and grit tanks have been removed from the planning period since the majority of the equipment will be replaced with the current Primary Sedimentation Expansion and Improvements project (17-P004). Also, while refining the model, staff excluded an inflation assumption on the replacement costs, which was built into the previous model, given the Capital Improvement Program Two-Year Budget and Ten-Year Plan are based on the present value replacement costs.

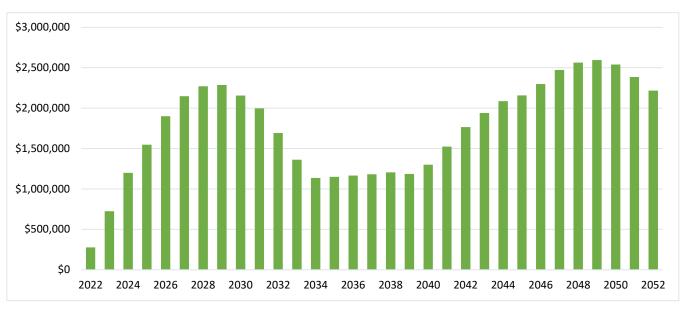


Figure 5- Regional Wastewater Long-Term Replacement Costs

Water System- Replacement

The asset management model for the water system estimates the remaining life of a pipeline based on the installation date of the pipeline and the pipeline material. In developing the current CIP, the model replacement costs were updated based on recent Bay Area construction bid data. The replacement cost per linear foot was significantly increased in the model for the water distribution system. Compared to the previous versions of the model, the peak annual replacement costs have significantly increased from \$6 million annually to \$10 million annually. This revised replacement cost is reflected in replacement project budgets and program funding.

The average annual water replacement expenditures, shown in Figure 6, increase annually and peak in 2033, just outside the Ten-Year Plan horizon. The replacement costs decrease until 2045, and from there they begin to increase again. This is due to various spikes in past development throughout the service area.

The oldest pipelines in the water system, namely cast iron pipes located in Camp Parks and asbestos cement (AC) pipes in Central Dublin, are at or near the end of their useful life. There are several projects included in the CIP Two-year Budget and Ten-year Plan to replace pipelines in these areas in the next ten years. The costs shown in Figure 6 exclude the cost of these replacement projects. The anticipated replacement costs that are not captured in a specific project are reflected in the Water Replacement and Rehabilitation Program.

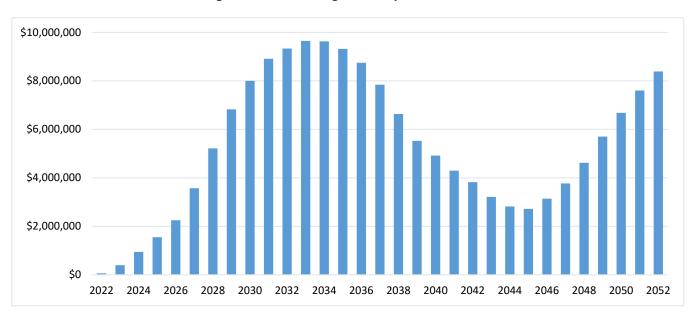


Figure 6 - Water Long-Term Replacement Costs

Chapter 2: Budget Process

Capital Improvement Program Process

The development of the CIP is a coordinated process, occurring every two-years, and beginning with District staff identifying projects and preparing related descriptions, schedules, and cost estimates. Projects may be identified in a master plan, study, or the asset management replacement model. Projects are also included to meet an upcoming regulatory requirement, or as a staff recommendation. Project requests are submitted for evaluation by the District Engineer. Several factors are considered in developing the CIP, including the District's Strategic Plan and established District Policies, the need to meet a regulatory mandate or requirement, the impact to the District's capital fund reserves, and balancing project scheduling with available staffing resources. The recommended CIP is compiled and presented to the General Manager for review and input. The recommended CIP is next reviewed by the Board of Directors ("Board") at a work session, where the public has an opportunity to provide comments before final adoption by the Board at a public hearing in late May or early June.

Capital Planning Policies

Development and implementation of the CIP is directed by the District policies listed below and available on the District's website. http://www.dsrsd.com/about-us/district-policies

- Project Cost Allocation: Basis for determining how the cost of projects should be allocated between funds.
- Infrastructure Responsibilities and Funding: Defines responsibility for major and non-major infrastructure planning design and construction. Establishes use of connection fees as primary source of funding for major infrastructure.
- 3. <u>Financial Reserves</u>: Provides guidance for the prudent accumulation and management of designated reserves.
- 4. Budget Accountability: Operations and Capital Improvement Program budget controls.

Budget Controls

Two-Year Project Budget

By Board adoption of the CIP Two-Year Budget, each project and program and their corresponding budget listed in the first two years (Fiscal Years 2022 and 2022) of the CIP Ten-Year Plan is authorized and may be fully expended with the following conditions:

- The total expenditures for each individual project shall not exceed the project total.
- The total allocated expenditures for the Two-Year Budget may be initiated in either Fiscal Year 2022 or 2023.

Additional project budget approval conditions are discussed in the following sections.

Project Approval from a Program

Approval authority for projects created from a program are consistent with the approval authority limits outlined in the District purchasing procedures:

- The General Manager may approve a project of \$175,000 or less created from a program.
- The General Manager may approve an increase in the budget of a project created from a program provided adequate program funds are available up to the General Manager's authority of \$175,000.
- A project created from a program in excess of \$175,000 or a budget increase that is greater than the general manager's authority requires Board approval.

Program Budgets

Upon completion of a project created from a program, any unused funds are returned to the program provided it is in the same fiscal year. Funding allocated to program budgets are not cumulative from year to year. Program budgets that do not fund specific projects by the end of the fiscal period do not carry forward. Thus, the program's total expenditures shall not exceed the total program budget for each fiscal year. The Board must approve increases in a program budget.

CIP Budget Implementation

The general manager may authorize staff to complete the implementation process or use consultant and construction contracts in standard District form, task orders and purchase orders for services, equipment, materials and supplies up to the authority of \$175,000 per the District Code. In addition, the general manager has the authority to adjust contracts that were previously approved by the Board, up to the purchasing authority of \$175,000. All work authorized by the general manager or submitted to the Board for authorization shall be procured and managed in accordance with District Code and purchasing procedures.

Actions Requiring Board Approval

The following is a summary of project and budget actions requiring Board approval:

- Addition of a new project not created from a program
- Addition of a new project created from a program in excess of \$175,000
- Acceleration of a future project that had to unexpectedly start early in either Fiscal Year 2022 or 2023
- Increase in a project budget in excess of \$175,000
- Increase in a program budget
- Increase in a project budget where the revised project budget is in excess of \$175,000
- Authorization of contracts, task orders, purchases or construction contracts in excess of \$175,000

Chapter 3: Fund Overview

Overview of District Funds

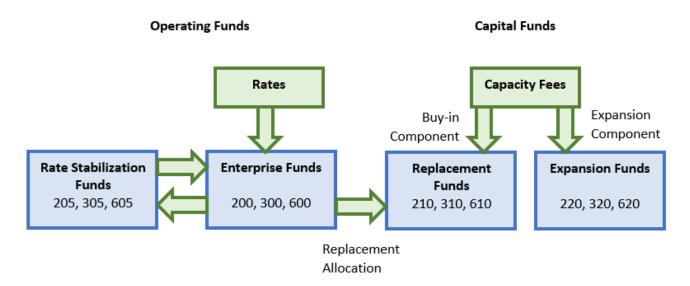
The District has three business enterprises: local wastewater collection, regional wastewater treatment and water. Each business enterprise has four funds: Enterprise, Rate Stabilization, Replacement, and Expansion. The funds have two main sources of revenue: rates and fees. Each fund also has interest revenue derived from the capital in the fund.

The rates paid by the District's customers go into the Enterprise Funds and are used to pay the normal operating costs. A portion of the rates is transferred to the Replacement Funds (replacement allocations) to pay for capital projects that replace or improve facilities that benefit existing customers. When there is a financial surplus in the Enterprise Fund the surplus is transferred to the Rate Stabilization Fund and is drawn upon to fund unexpected events.

Capacity reserve fees collected from development projects go into the Expansion Funds and are used to pay to pay for new projects that serve future customers or for debt related to facilities that were built to add capacity for future customers. The District will often build a facility that is sized to meet capacity needs into the distant future. An existing infrastructure buy-in component of the fee is collected for new development to pay for the use of existing excess capacity. The existing infrastructure buy-in component goes to the Replacement Fund.

The revenue from fees is estimated based on the number of future water and wastewater connections anticipated with planned development provided by the cities of Dublin, Pleasanton, and San Ramon. Because each connection to the system may use have different water or sewer use, the connections are converted to Dwelling Unit Equivalents (DUEs) which are based on usage relative to that of a single-family residential home. The number of connections in the first two years are based on the planned development slated for those years. The number of projected connections over the remaining eight years of the plan are averaged over those years as the actual timing of development in the latter years is difficult to predict.

Figure 7 - Capital Funding



Financial Reserves

The District's Financial Reserves Policy designates financial reserves in order to protect the District's investment in various assets, satisfy its commitments under its numerous financial, regulatory and contractual obligations and to stabilize long-term rates for its customers.

For capital replacement funds (210, 310, 610), the minimum reserve is twice the average annual expenditures in the fund based on the next 15 years of planned expenditure which includes the Ten-Year Plan plus an estimate of asset replacement needs for the subsequent five years.

For the expansion funds (220, 320, and 620), minimum reserve is the greater of two years debt service or the next two years of project expenditures. This methodology ensures sufficient financial reserves to complete projects in progress and pay debt service obligations should development not materialize as projected. An alternate spending plan for capital expenditures would then be addressed in the next two-year budget cycle.

As the local sewer, water, and regional wastewater treatment systems age, the replacement costs will increase. Concurrently development in the service area will be approaching build out and capacity reserve fees will diminish. This will result in a decline in existing infrastructure buy-in component of the capacity reserve fee revenue to the replacement funds from the various capacity reserve fees, creating a conundrum where infrastructure begins to accelerate its depreciation at almost the same time that a major revenue source begins a significant decline.

The policy of setting capital replacement reserve levels at twice the fifteen-year average of planned capital projects plus known asset management replacement needs will help to mitigate the problem of increasing costs and decreasing capacity reserve revenue. The average annual replacement cost will increase, leading to an increase in replacement reserve requirements, which will gradually signal the need for additional capital funding. Within each two-year budget period, the District can assess the need for growth in utility rates to make up the difference. Thus, the District will be able to capitalize on its growing Asset Management Program to plan a sensible long-term ramp-up of rehabilitation and replacement funding through user fees.

Financial Summary by Fund

To assure the District has sufficient funds to maintain existing assets and to construct the facilities to meet the needs of new customers, the District projects the revenues and expenditures in the capital replacement and expansion funds over the ten-year CIP plan period and verifies the fund working capital is greater than the minimum financial reserve level as defined in the Financial Reserve Policy. A summary of the revenues and expenditures and working capital trends in each replacement and expansion fund is provided in the following sections.

Local Wastewater Collection Replacement (Fund 210)

The Local Wastewater Replacement fund (Fund 210) funds projects which replace and improve local sewer facilities that transfer wastewater from the point of origin to the regional wastewater treatment facility. The fund minimum reserve is twice the average annual expense of the fifteen-year CIP.

Revenue & Expenditures

The fund's revenue includes the existing infrastructure buy-in component of capacity reserve fees, interest, and the replacement allocation from the Local Enterprise fund. In the Two-Year Budget, roughly 74 percent of the fund's revenue comes from capacity reserve fees, while 24 percent comes from replacement allocation. Interest accounts for 2 percent of the fund's total revenue. Of note, is the continued elimination of the replacement allocation in the first year of the planning period, due to insufficient rate revenue in the Local Enterprise fund. The replacement allocation is shown as returning in Fiscal Year 2023, at \$800,000 annually through Fiscal Year 2027, which is increased from the previous \$675,000 annual replacement allocation. In Fiscal Year 2028, the replacement allocation is increased to \$1.2 million for the remainder of the planning period. Capacity reserve fee revenue projections are based on the most recent development projections and the current fee increased 3 percent annually.

The fund's expenditures include CIP expenditures, interfund loan repayment, and capital outlay. The CIP expenditures are shown in more detail in Table 8 in the following section. In Fiscal Year 2018, the Local Expansion fund loaned the Local Replacement fund \$5 million to cover the cost of a large critical project, to be repaid over six years (ending in Fiscal Year 2024). A closed-circuit television (CCTV) truck is requested in Fiscal Year 2022, deferred from the previous two-year budget, at a cost of \$500,000.

Working Capital

The estimated beginning working capital for Fiscal Year 2022 is \$4.12 million. With no replacement allocation in the first year, \$4.2 million in CIP expenditures and \$2.6 million in loan repayment expenses over the next three years, the fund's working capital hovers at or just below the minimum reserve target through Fiscal Year 2025. The increased replacement allocation provides a buffer for the fund's working capital in the event of an economic downturn. In Fiscal Years 2026 and 2027, several pipeline replacement and rehabilitation projects are planned, causing a decrease in working capital until Fiscal Year 2028. Thereafter, working capital climbs steadily to over \$9 million in Fiscal Year 2031. With an anticipated increase in inspection activity and a planned condition assessment of large diameter sewer lines in Fiscal Year 2024, new projects will likely be identified which will reduce that peak.

Table 2 – Local Wastewater Replacement Revenue, Expenditures, & Working Capital (\$1,000's)

Fiscal Year	DUEs	Capacity Reserve Fees	Interest	Replacement Allocation	CIP Expenditures	Debt Service	Capital Outlay	Working Capital
2022	479	\$ 1,076	\$ 41		\$ 1,655	\$ 896	\$ 551	\$ 2,132
2023	615	\$ 1,423	\$ 21	\$ 800	\$ 1,325	\$ 875	\$ 43	\$ 2,133
2024	431	\$ 1,027	\$ 19	\$ 800	\$ 1,172	\$ 854		\$ 1,953
2025	229	\$ 562	\$ 20	\$ 800	\$ 1,284			\$ 2,052
2026	540	\$ 1,365	\$31	\$ 800	\$ 1,097			\$ 3,151
2027	540	\$ 1,406	\$ 17	\$ 800	\$ 3,572			\$ 1,802
2028	540	\$ 1,448	\$ 36	\$ 1,200	\$ 859			\$ 3,627
2029	540	\$ 1,491	\$ 47	\$ 1,200	\$ 1,569			\$ 4,798
2030	540	\$ 1,536	\$ 71	\$ 1,200	\$ 399			\$ 7,207
2031	540	\$ 1,582	\$ 96	\$ 1,200	\$ 399			\$ 9,686

Figure 8 – Local Wastewater Replacement Fund Working Capital

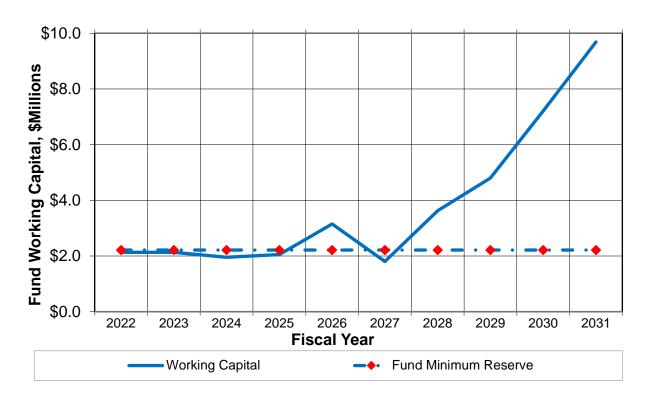
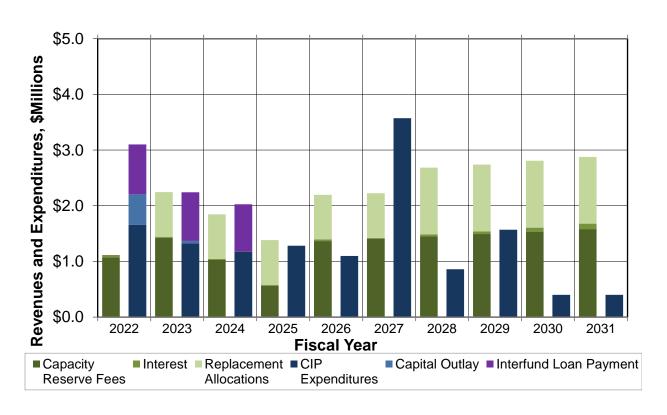


Figure 9 – Local Wastewater Replacement Fund Revenue & Expenditures



Local Wastewater Expansion (Fund 220)

The Local Wastewater Expansion fund (Fund 220) funds projects which expand or add local sewer facilities to accommodate increased wastewater flows from new development. The fund minimum reserve is the greater of two years debt service or the next two years of project expenditures.

Revenue & Expenditures

The fund's revenue includes capacity reserve fees, interest, and interfund loan repayment revenue. In the Two-Year Budget, the capacity reserve fee revenue represents 5 percent of the total revenue, while interest (10 percent) and interfund loan repayment revenue (85 percent) make up the remainder. Capacity Reserve Fee revenue is based on the most recent development projections and the current fee increased 3 percent annually.

CIP expenditures are the sole expenditure for the fund, which are shown in more detail in Table 9 in the following section. Project expenditures include various pipeline projects identified by the 2019 Sewer Collection System Master Plan to upsize pipelines as a result of development. The primary project in the near-term is the Dublin Boulevard – Amador Plaza Road to Village Parkway (20-S014) in Fiscal Year 2023.

Working Capital

The estimated beginning working capital for Fiscal Year 2022 is \$7.59 million. This fund is well established, remaining above the fund minimum target for the entire planning period. Note the fund minimum reserve level is zero in 2028 as there are no CIP expenditures in Fiscal Years 2028 and 2029. The reduction in working capital after Fiscal Year 2030 is due to the Village Parkway – South of Dublin Boulevard (T20-06) project, estimated to cost \$2,832,000.

Table 3 – Local Wastewater Collection Expansion Revenue, Expenditures, & Working Capital (\$1,000's)

Fiscal Year	DUEs	Capacity Reserve Fees	Interest	Interfund Loan Repayment Revenue	CIP Expenditures	Working Capital
2022	479	\$ 33	\$ 76	\$ 896		\$ 8,590
2023	615	\$ 43	\$ 86	\$ 875	\$ 100	\$ 9,494
2024	431	\$ 31	\$ 96	\$ 854	\$ 830	\$ 9,645
2025	229	\$ 17	\$ 84		\$ 1,300	\$ 8,446
2026	540	\$ 42	\$ 83		\$ 175	\$ 8,396
2027	540	\$ 43	\$ 79		\$ 500	\$ 8, 018
2028	540	\$ 44	\$ 81			\$ 8,143
2029	540	\$ 46	\$ 82			\$ 8,270
2030	540	\$ 47	\$ 80		\$ 275	\$ 8,122
2031	540	\$ 48	\$ 56		\$ 2,557	\$ 5,670

Figure 10 – Local Wastewater Expansion Fund Working Capital

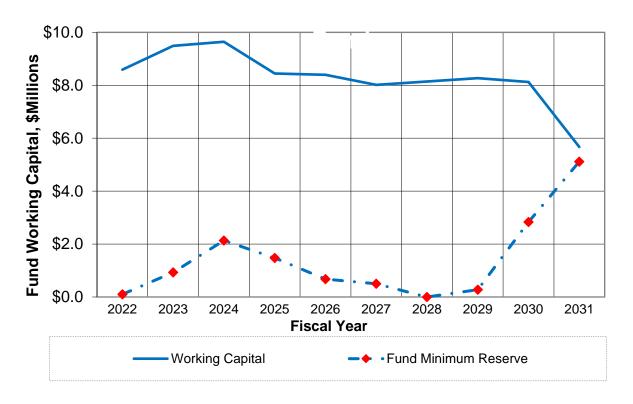
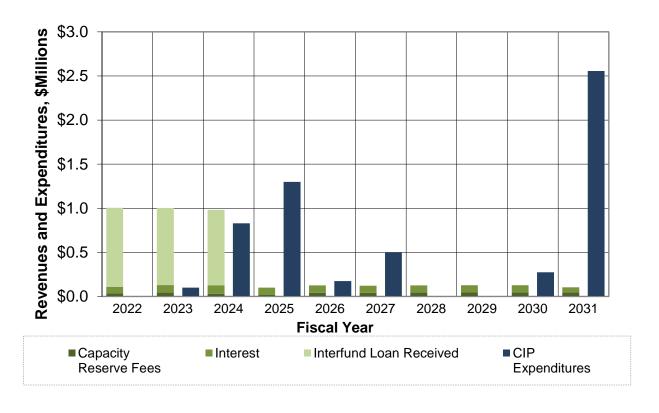


Figure 11 – Local Wastewater Expansion Fund Revenue & Expenditures



Regional Wastewater Treatment Replacement (Fund 310)

The Regional Wastewater Replacement fund (Fund 310) funds projects which replace and improve the existing Regional Wastewater Treatment Plant processes and facilities. It also funds projects to meet regulatory requirements. The plant treats the wastewater collected from the DSRSD local collection system as well as the wastewater flows from the City of Pleasanton before further treatment for recycled water or conveyance through the Livermore-Amador Valley Water Management Agency (LAVWMA) pipeline to the San Francisco Bay for disposal. The fund minimum reserve is twice the average annual expense of the fifteen-year CIP.

Revenue & Expenditures

The fund's revenue includes the existing infrastructure buy-in component of capacity reserve fees, interest, and the replacement allocation from the Regional Enterprise fund. In the Two-Year Budget, just over half of the fund's revenue comes from capacity reserve fees (54 percent), while 40 percent comes from replacement allocation. Interest is 6 percent of the fund's total revenue. The revenue from the Capacity Reserve Fee buy is based on the most recent development projections and the current fee increased 3 percent annually.

All CIP expenditures in the fund are shown in more detail in Table 10 in the following section. The other expenses in the fund are mainly capital outlay which includes replacement of aging equipment at the Wastewater Treatment Plant.

The CIP near-term expenditures are primarily the fund's contribution to the Primary Sedimentation and Expansion, Biogas Treatment System Improvements, Biogas Flare Improvements, and SCADA Improvements projects. The WWTP Replacement and Rehabilitation Program represents considerable expenditures in this fund increasing from \$500,000 in 2022 to \$2,300,000 in 2028. There is a spike in the expenditures and a related reduction of working capital in the last year of the ten-year plan to account for potential process improvements required to meet the San Francisco Bay Nutrients Watershed Permit. The projects conservatively assume there will be effluents limits on both nitrogen and phosphorus requiring three aeration basins, a secondary clarifier and improvements to the chlorine contact tank. The required projects will likely change based on a new watershed permit issued by the San Francisco Bay Regional Water Quality Control Board in 2024.

Working Capital

The estimated beginning working capital for Fiscal Year 2022 is \$32.27 million. The working capital in this fund slowly increases over time in anticipation of rehabilitation and replacement costs projected beyond the ten-year plan horizon based on the asset management replacement model.

Table 4 – Regional Wastewater Replacement Revenue, Expenditures, & Working Capital (\$1,000's)

Fiscal Year	DUEs	Capacity Reserve Fees	Interest	Replacement Allocation	CIP Expenditures	Other Expenses	Working Capital
2022	529	\$ 2,000	\$ 323	\$ 1,800	\$ 9,902	\$ 794	\$ 25,540
2023	850	\$ 3,303	\$ 255	\$ 2,100	\$ 6,557	\$ 954	\$ 24,237
2024	576	\$ 2,297	\$ 248	\$ 2,400	\$ 3,795	\$ 404	\$ 25,109
2025	374	\$ 1,536	\$ 190	\$ 2,700	\$ 10,017	\$ 280	\$ 19,239
2026	685	\$ 2,898	\$ 202	\$ 3,000	\$ 4,624	\$ 280	\$ 20,436
2027	685	\$ 2,985	\$ 229	\$ 3,300	\$ 3,574	\$ 280	\$ 23,096
2028	685	\$ 3,075	\$ 228	\$ 3,700	\$ 6,789	\$ 280	\$ 23,030
2029	685	\$ 3,167	\$ 223	\$ 4,100	\$ 7,674	\$ 280	\$ 22,567
2030	685	\$ 3,262	\$ 170	\$ 4,500	\$ 13,074	\$ 280	\$ 17,146
2031	685	\$ 3,360	\$ 103	\$ 4,500	\$ 14,474	\$ 280	\$ 10,355

Figure 12 - Regional Wastewater Treatment Replacement Fund Working Capital

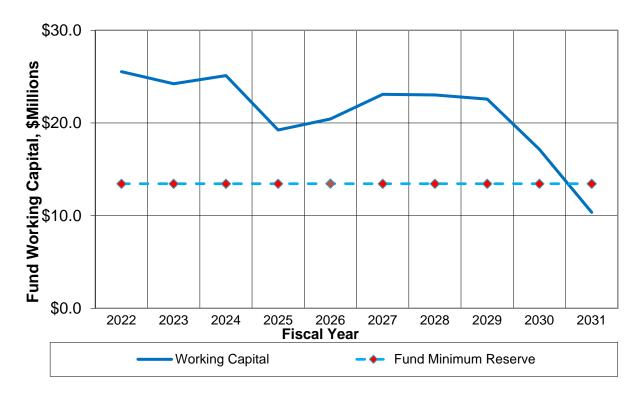
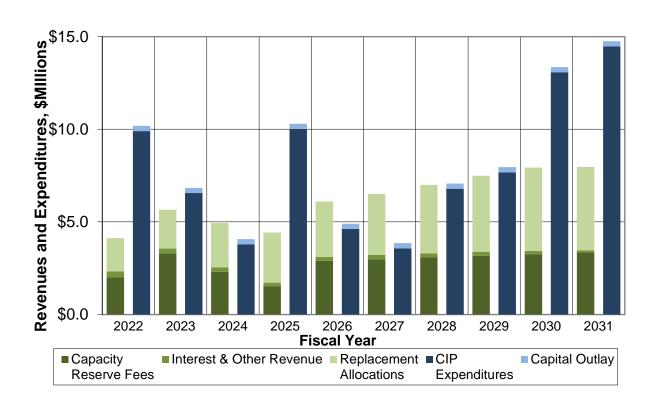


Figure 13 – Regional Wastewater Treatment Replacement Fund Revenue & Expenditures



Regional Wastewater Expansion (Fund 320)

The Regional Wastewater Replacement fund (Fund 320) funds projects which expand or add to the wastewater treatment process to accommodate future wastewater flows, ultimately conveyed through the LAVWMA pipeline to the San Francisco Bay for disposal. The fund minimum reserve is the greater of two years debt service or the next two years of project expenditures.

Revenue & Expenditures

The fund's revenue sources include capacity reserve fees and interest. In the Two-Year Budget, the capacity reserve fee revenue comprises 95 percent of the revenue for the fund. The revenue from the Capacity Reserve Fee is based on the most recent development projections and the current fee increased 3 percent annually.

The two expenditure types for the fund include CIP expenditures and debt service. The CIP near-term expenditures include the fund's contribution to the Primary Sedimentation and Expansion (17-P004) and Biogas Treatment System Improvements (16-P028) projects. The other significant project is the first phase of the Biosolids Dewatering (18-P013) project which includes \$14.3 million in expenditures from 2027 to 2028. All CIP expenditures are shown in more detail in Table 11 in the following section. The LAVWMA debt service for this fund is approximately \$4.3 million annually, ending in fiscal year 2032.

Working Capital

The estimated beginning working capital for Fiscal Year 2022 is \$42.06 million. The projected working capital in Fiscal Year 2031, approximately \$39 million, will be needed to fund future anticipated projects, including the second phase of the Biosolids Dewatering project. The working capital will also need to cover the remaining LAVWMA debt payment.

Table 5 - Regional Wastewater Treatment Expansion Revenue, Expenditures, & Working Capital (\$1,000's)

Fiscal Year	DUEs	Capacity Reserve Fees	Interest	CIP Expenditures	Debt Service	Working Capital
2022	529	\$ 5,391	\$ 421	\$ 4,934	\$ 4,310	\$ 38,628
2023	850	\$ 8,747	\$ 386	\$ 1,166	\$ 4,311	\$ 42,285
2024	576	\$ 5,978	\$ 433	\$ 661	\$ 4,333	\$ 43,702
2025	374	\$ 3,930	\$ 433		\$ 4,313	\$ 43,752
2026	685	\$ 7,291	\$ 444	\$ 2,358	\$ 4,312	\$ 44,817
2027	685	\$ 7,386	\$ 454	\$ 2,525	\$ 4,327	\$ 45,804
2028	685	\$ 7,483	\$ 369	\$ 12,120	\$ 4,312	\$ 37,225
2029	685	\$ 7,584	\$ 405		\$ 4,312	\$ 40,901
2030	685	\$ 7,688	\$ 382	\$ 6,094	\$ 4,326	\$ 38,551
2031	685	\$ 7,795	\$ 390	\$ 3,000	\$ 4,325	\$ 39,410

Figure 14 – Regional Wastewater Treatment Expansion Fund Working Capital

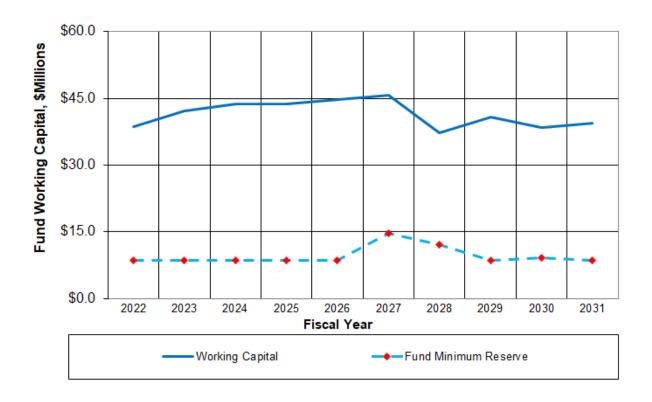
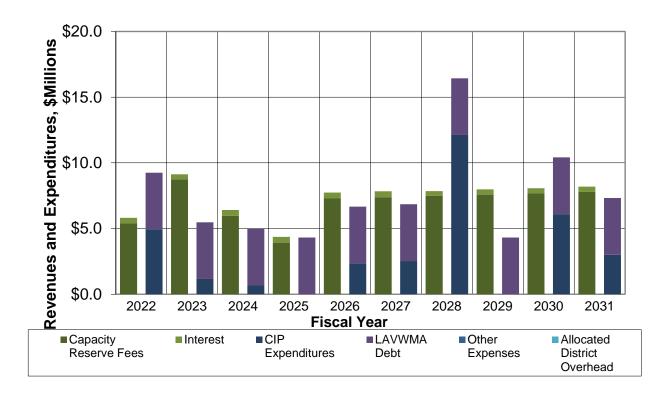


Figure 15 – Regional Wastewater Treatment Expansion Fund Revenue & Expenditures



Water Replacement (Fund 610)

The Water Replacement fund (Fund 610) funds projects which replace and improve facilities to treat recycled water, as well as the pipelines, pump stations, reservoirs, and related appurtenances to distribute water potable water (from the Zone 7 turnouts to the customers) and recycled water (from the Dublin San Ramon Services District East Bay Municipal Utility District Recycled Water Agency (DERWA) transmission system to recycled customers). The fund minimum reserve is twice the average annual expense of the fifteen-year CIP.

Revenue & Expenditures

The fund's revenue includes the existing infrastructure buy-in component of capacity reserve fees, interest, and the replacement allocation from the Water Enterprise fund. In the Two-Year Budget, two-thirds of the fund's revenue comes from replacement allocation, while the remaining third comes from the existing infrastructure buy-in component. Interest in the fund is about 2% of the total revenue. The revenue from the Capacity Reserve Fee is based on the most recent development projections and the current fee increased 3 percent annually. The replacement allocation has been increased annually in anticipation of rehabilitation and replacement costs projected beyond the ten-year plan horizon based on the asset management replacement model.

CIP expenditures, capital outlay, and contributions to DERWA are the three expenditure types for the fund. In the way of pipeline replacement, there are two large projects which will occur in the two-year budget: 1) Water Lines Replacement – Wineberry and Canterbury Area (16-W017) and 2) Camp Parks Water Main – Cromwell Avenue, 12th Street, and Mitchell Drive (20-W024). The Capital Improvements to Increase Water Supply Program – Phase 2 (00-W002), budgeted at \$30 million in this fund, comprises a large share of the total CIP expenditures, as well as the Water System Replacement and Rehabilitation Program (00-W011). All CIP expenditures are shown in more detail in Table 12 in the following section.

Working Capital

The estimated beginning working capital for Fiscal Year 2022 is \$26.58 million. While this fund is projected to spend \$30 million on alternative water supplies over Fiscal Year 2026 through 2035, per recent discussions with the Board of Directors, this project may be debt funded. The working capital in this fund is well established to address future expenditures, but due to several large projects in the next two years, is just below the reserve target before recovering in Fiscal Year 2024. This fund was impacted by a Board of Directors on May 4, 2021 approval of a net payment of \$11 million to the Water Expansion Fund to pay the remaining share of loan payments from water ratepayers.

Table 6 - Water System Replacement Revenue, Expenditures, & Working Capital (\$1,000's)

Fiscal	DUE	Capacity	Replacement	Interest	CIP	Capital	Contribution	Working
Year	DUEs	Reserve Fees	Allocation	Interest	Expenditures	Outlay	to JPA	Capital
2022	512	\$ 2,239	\$ 6,170	\$ 266	\$ 11,310	\$ 478	\$286	\$ 23,292
2023	743	\$ 3,346	\$ 6,280	\$ 234	\$ 13,223	\$ 213	\$174	\$ 19,542
2024	632	\$ 2,932	\$ 6,390	\$ 221	\$ 6,760			\$ 22,324
2025	337	\$ 1,610	\$ 6,500	\$ 295	\$ 965			\$ 29,764
2026	659	\$ 3,243	\$ 6,610	\$ 363	\$ 3,393			\$ 36,587
2027	659	\$ 3,340	\$ 6,720	\$ 357	\$ 10,958			\$ 36,046
2028	659	\$ 3,441	\$ 6,830	\$ 366	\$ 9,705			\$ 36,978
2029	659	\$ 3,544	\$ 6,940	\$ 387	\$ 8,743			\$ 39,106
2030	659	\$ 3,650	\$ 7,050	\$ 376	\$ 12,193			\$ 37,990
2031	659	\$ 3,760	\$ 7,160	\$ 274	\$ 21,543			\$ 27,640

Figure 16 - Water Replacement Fund Working Capital

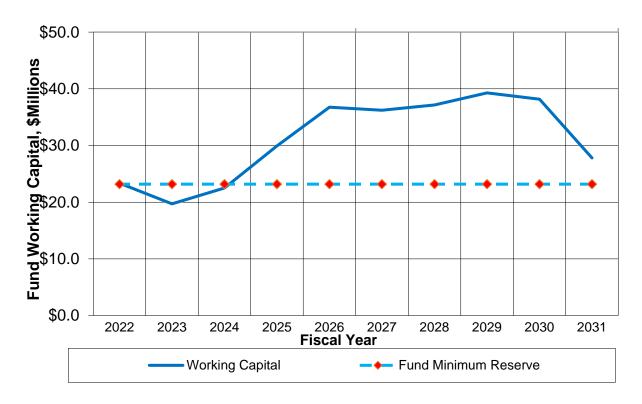
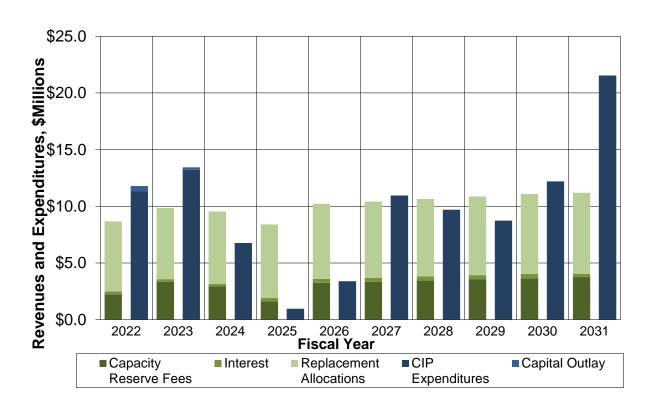


Figure 17 - Water Replacement Fund Revenue & Expenditures



Water Expansion (Fund 620)

The Water Expansion fund (Fund 620) funds projects which expand or add facilities to treat recycled water and to distribute potable and recycled water. The fund minimum reserve is the greater of two years debt service or the next two years of project expenditures.

Revenue & Expenditures

The fund's revenue sources include capacity reserve fees and interest. In the Two-Year Budget, the capacity reserve fee revenue comprises 95 percent of the revenue for the fund. The revenue from the Capacity Reserve Fee is based on the most recent development projections and the current fee increased 3 percent annually.

CIP expenditures and debt service are the primary expense types in the fund. The primary, near-term CIP expenditures include the construction of Reservoir 10A (17-W003) and Reservoir 20B (14-W008) for a combined total project cost of over \$25 million. Other large projects include the construction of Turnout 6 (17-W003), and the fund's share of the Capital Improvements to Increase Water Supply Program – Phase 2 (00-W002). All CIP expenditures are shown in more detail in Table 13 in the following section. The fund is also responsible for the debt service for 2018 refinanced water bond repayment, through 2042 and the DERWA Loan, through 2027.

Working Capital

The estimated beginning working capital for Fiscal Year 2022 is \$41.64 million. The fund's beginning working capital reflects the transfers into the fund for the ratepayer share of debt and the Temporary Infrastructure Charge repayment approved by the Board of Directors on May 4, 2021. The most significant CIP expenditure change from the last review is an increase in the Turnout 6 project (20-W015) budget to \$8.9 million due to the complexity of the project and the locations available to connect to the Zone 7 Cross Valley Pipeline. This fund is reliant upon development related fees, and in the event of a downturn in the economy, all projects will be evaluated and deferred if necessary. Staff is closely monitoring the development revenue to ensure a healthy fund balance in the fund. Staff will also undertake a Water Capacity Reserve Fee in Fiscal Year 2022, assessing the increased costs mentioned above to generate appropriate revenue for the projects and debt service funded from Water Expansion. Working capital in the fund is below the fund minimum in Fiscal Year 2023 due to the anticipated construction costs of Reservoir 10A and Reservoir 20B. For the remainder of the ten-year period, the working capital remains above fund minimum reserve target.

Table 7 – Water System Expansion Revenue, Expenditures, & Working Capital (\$1,000's)

Fiscal Year	DUEs	Capacity Reserve Fees	Interest	CIP Expenditures	Contribution to JPA	Debt Service	DERWA Debt	Working Capital
2022	512	\$ 4,927	\$ 416	\$ 8,701	\$ 16	\$ 1,880	\$ 823	\$ 35,560
2023	743	\$ 7,274	\$ 355	\$ 14,049		\$ 1,877	\$ 823	\$ 26,441
2024	632	\$ 6,296	\$ 169	\$ 13,087		\$ 1,878	\$ 846	\$ 17,095
2025	337	\$ 3,417	\$ 168	\$ 965		\$ 1,877	\$ 846	\$ 16,992
2026	659	\$ 6,801	\$ 209	\$ 125		\$ 1,875	\$ 333	\$ 21,669
2027	659	\$ 6,924	\$ 252	\$ 720		\$ 2,306		\$ 25,818
2028	659	\$ 6,924	\$ 302	\$ 375		\$ 2,587		\$ 30,083
2029	659	\$ 6,924	\$ 341	\$ 625		\$ 2,577		\$ 34,146
2030	659	\$ 6,924	\$ 379	\$ 625		\$ 2,579		\$ 38,245
2031	659	\$ 6,924	\$ 395	\$ 3,125		\$ 5,578		\$ 39,861

Figure 18 – Water Expansion Fund Working Capital

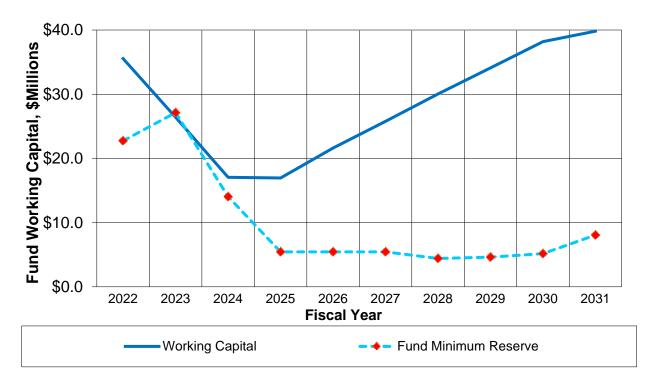
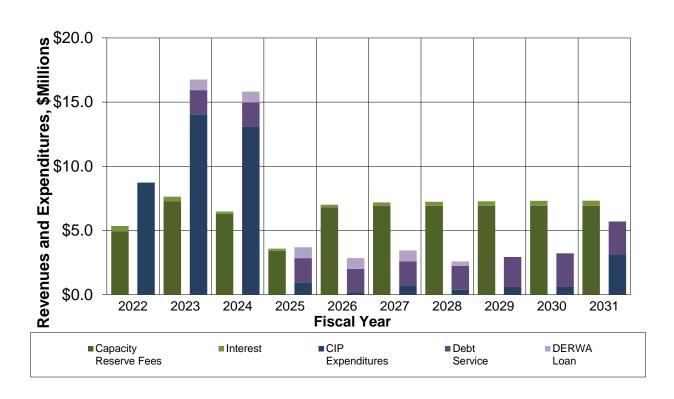


Figure 19 – Water Expansion Fund Revenue & Expenditures



Project Expenditures by Fund

The following tables present CIP Project expenditures by fund. The amounts shown are the District's costs, net of any grants or other funding. The tables illustrate the portion of estimated cash flow allocated to each fund. When a project is funded by multiple funds, it will appear multiple times, at the appropriate allocated percentage. Expenditures in the "Future" columns include the estimate of expenditures for the next five years beyond the ten-year planning period.

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Table 8 – Local Replacement (Fund 210)
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Table 9 – Local Expansion (Fund 220)

Table 10 – Regional Replacement (Fund 310)

Table 11 – Regional Expansion (Fund 320)

Table 12 – Water Replacement (Fund 610)

Table 13 – Water Expansion (Fund 610)

CIP 10-Year Plan for Fiscal Years Ending 2022 through 2031

Portion of Estimated Cashflow Allocated to Local Wastewater Replacement (Fund 210)

*Amounts shown are District costs net of grants and other fundings

CIP No.	Project Name	210 Split	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Future	Total
General														
20-A024	Field Operations Facility - Skylight Replacements	15%	12,000	0	0	0	0	0	0	0	0	0	0	12,000
20-A029	District Office Accessibility Improvements	10%	0	0	0	0	0	0	50,000	0	0	0	0	50,000
22-A002	Field Operations Facility Warehouse Storage Improvements	15%	0	15,000	0	0	0	0	0	0	0	0	0	15,000
22-A005	District Office Backup Generator Replacement	12%	0	114,000	0	0	0	0	0	0	0	0	0	114,000
18-P008	Industrial Control Network Security Essentials	11%	29,426	0	0	0	0	0	0	0	0	0	0	29,426
20-A002	Enterprise Resource Program System Conversion	12%	90,000	0	0	0	0	0	0	0	0	0	0	90,000
22-A006	District Office Roof Repair	12%	8,400	0	0	0	0	0	0	0	0	0	0	8,400
00-A003	Street Overlay Modification PROGRAM	50%	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	400,000	1,200,000
T20-13	Gleason Drive Property Planning Study	10%	0	0	0	0	0	0	0	0	0	0	20,000	20,000
20-A001	Computing Infrastructure Replacement	12%	19,200	14,400	0	0	0	0	0	0	0	0	0	33,600
17-A007	Wide Area Network Communications Phase 2	10%	13,560	0	0	0	0	0	0	0	0	0	0	13,560
T18-23	Fleet Replacement PROGRAM	20%	0	0	60,000	60,000	60,000	60,000	60,000	60,000	60,000	60,000	300,000	780,000
T18-24	Facilities Asset Replacement PROGRAM	2%	0	0	8,600	8,600	8,600	8,600	8,600	8,600	8,600	8,600	43,000	111,800
T18-02	Network Infrastructure and Security	12%	0	12,000	18,000	30,000	0	60,000	0	0	0	0	0	120,000
Wastewa	ter Collection													
21-S008	Lift Station 2 Upgrades	100%	64,500	0	0	0	0	0	0	0	0	0	0	64,500
T20-05	Dublin Court and Dublin Boulevard Sewer Replacement	100%	0	0	0	0	200,000	550,000	0	0	0	0	0	750,000
T22-20	Large Diameter Sewer Condition Assessment	100%	0	0	150,000	0	0	0	0	0	0	0	0	150,000
20-S013	East Dublin 36" Trunk Sewer Rehabilitation	n 100%	1,004,000	0	0	0	0	0	0	0	0	0	0	1,004,000
00-S020	Wastewater Collection System Replacement and Rehabilitation PROGRAM	100%	150,000	150,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,500,000	4,800,000
18-S006	San Ramon Golf Course 24" Trunk Sewer Rehabilitation	100%	0	0	557,500	0	0	0	0	0	0	0	0	557,500

Portion of Estimated Cashflow Allocated to Local Wastewater Replacement (Fund 210)

CIP No.	Project Name	210 Split	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Future	Total
18-S007	Alcosta Blvd Sewer Replacement	100%	0	0	0	0	63,500	583,775	0	0	0	0	0	647,275
22-S008	Sewer Collection System Evaluation and Spot Repair	100%	50,000	250,000	0	0	0	0	0	0	0	0	0	300,000
14-S001	Camp Parks Sewer Rehabilitation Project Goodfellow Ave North of 8th Street	- 100%	100,000	690,000	0	0	0	0	0	0	0	0	0	790,000
T14-02	Camp Parks Sewer Rehabilitation Project Davis and Cromwell, 8th to 10 Streets	- 100%	0	0	0	0	260,000	1,380,000	0	0	0	0	0	1,640,000
14-S002	Camp Parks Sewer Rehabilitation Project Adams 8th to 10th Streets	- 100%	0	0	0	0	175,000	600,000	0	0	0	0	0	775,000
T16-50	Iron Horse Trail Sewer Replacement	100%	0	0	0	855,000	0	0	0	0	0	0	0	855,000
08-2101	Donahue Dr./Vomac Rd. Relief Sewer	100%	0	0	0	0	0	0	410,000	1,170,000	0	0	0	1,580,000
Water Sy	stem													
T22-19	Field Operations and District Facilities Energy Plan	5%	0	0	32,500	0	0	0	0	0	0	0	0	32,500
22-A004	Fiscal Year 2022 Manhole and Valve Adjustments - City of Dublin	15%	33,900	0	0	0	0	0	0	0	0	0	0	33,900
16-A016	District Facilities Security Project - Phase	2 10%	0	0	15,000	0	0	0	0	0	0	0	0	15,000
			1,654,986	1,325,400	1,171,600	1,283,600	1,097,100	3,572,375	858,600	1,568,600	398,600	398,600	3,263,000	16,592,461

CIP 10-Year Plan for Fiscal Years Ending 2022 through 2031

Portion of Estimated Cashflow Allocated to Local Wastewater Expansion (Fund 220)

*Amounts shown are District costs net of grants and other fundings

CIP No.	Project Name	220 Split	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Future	Total
General														
T20-13	Gleason Drive Property Planning Study	5%	0	0	0	0	0	0	0	0	0	0	10,000	10,000
Wastew	ater Collection													
T20-04	Dublin Boulevard - Clark Avenue to Sierra Court	a 100%	0	0	0	0	175,000	500,000	0	0	0	0	0	675,000
T20-06	Village Parkway - South of Dublin Boulevard	100%	0	0	0	0	0	0	0	0	275,000	2,557,000	0	2,832,000
20-S028	Dublin Boulevard Extension Sewer Facilities	100%	0	50,000	655,000	655,000	0	0	0	0	0	0	0	1,360,000
20-S014	Dublin Boulevard - Amador Plaza Road to Village Parkway	100%	0	50,000	175,000	645,000	0	0	0	0	0	0	0	870,000
T00-76	Dublin Trunk Relief Sewer	100%	0	0	0	0	0	0	0	0	0	0	6,945,000	6,945,000
			0	100,000	830,000	1,300,000	175,000	500,000	0	0	275,000	2,557,000	6,955,000	12,692,000

CIP 10-Year Plan for Fiscal Years Ending 2022 through 2031

Portion of Estimated Cashflow Allocated to Regional Wastewater Replacement (Fund 310)

*Amounts shown are District costs net of grants and other fundings

CIP No.	Project Name	310 Split	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Future	Total
General														
20-A029	District Office Accessibility Improvements	53%	0	0	0	0	0	0	265,000	0	0	0	0	265,000
22-A005	District Office Backup Generator Replacement	50%	0	475,000	0	0	0	0	0	0	0	0	0	475,000
18-P008	Industrial Control Network Security Essentials	52%	139,104	0	0	0	0	0	0	0	0	0	0	139,104
20-A002	Enterprise Resource Program System Conversion	50%	375,000	0	0	0	0	0	0	0	0	0	0	375,000
22-A006	District Office Roof Repair	50%	35,000	0	0	0	0	0	0	0	0	0	0	35,000
20-A001	Computing Infrastructure Replacement	50%	80,000	60,000	0	0	0	0	0	0	0	0	0	140,000
17-A007	Wide Area Network Communications Phase 2	46%	62,378	0	0	0	0	0	0	0	0	0	0	62,378
T18-23	Fleet Replacement PROGRAM	30%	0	0	90,000	90,000	90,000	90,000	90,000	90,000	90,000	90,000	450,000	1,170,000
T18-24	Facilities Asset Replacement PROGRAM	66%	0	0	283,800	283,800	283,800	283,800	283,800	283,800	283,800	283,800	1,419,000	3,689,400
T18-02	Network Infrastructure and Security	50%	0	50,000	75,000	125,000	0	250,000	0	0	0	0	0	500,000
Regional	Wastewater Treatment													
21-P004	Cogeneration Room Cooling	100%	111,000	0	0	0	0	0	0	0	0	0	0	111,000
21-P009	East Amador Lift Station Rehabilitation	100%	1,350,000	0	0	0	0	0	0	0	0	0	0	1,350,000
20-P010	Cogeneration Engine #4	100%	0	0	1,000,000	7,000,000	0	0	0	0	0	0	0	8,000,000
20-P012	WWTP Security Improvements	100%	0	0	0	454,574	0	0	0	0	0	0	0	454,574
T20-14	WWTP/Biosolids Master Plan	15%	0	0	97,500	0	0	0	0	0	0	0	0	97,500
T20-15	Flocculation Baffles in Secondary Clarifiers	100%	0	0	0	80,000	0	0	0	0	0	0	0	80,000
T22-09	Recoating and Rehabilitation of Digester 3, 2, and 1	100%	0	0	0	0	350,000	350,000	500,000	0	0	0	0	1,200,000
T22-18	Inner Sewer Flow Metering	100%	0	0	0	0	0	500,000	0	0	0	0	0	500,000
T22-21	Backup Power at Laboratory	80%	0	0	72,000	0	0	0	0	0	0	0	0	72,000
T22-28	Laboratory Cabinetry Replacement	80%	0	0	160,000	0	0	0	0	0	0	0	0	160,000
22-P009	WWTP Energy Master Plan	80%	640,000	0	0	0	0	0	0	0	0	0	0	640,000
22-P010	WWTP HVAC Replacements	100%	60,000	150,000	0	0	0	0	0	0	0	0	0	210,000
22-P011	WWTP Roof Replacements	100%	0	300,000	0	0	0	0	0	0	0	0	0	300,000

Portion of Estimated Cashflow Allocated to Regional Wastewater Replacement (Fund 310)

CIP No.	Project Name	310 Split	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Future	Total
22-P012	Cogen Catalyst Housings Replacement	100%	310,000	0	0	0	0	0	0	0	0	0	0	310,000
22-P013	WWTP Process Assessment	100%	100,000	175,000	0	0	0	0	0	0	0	0	0	275,000
22-P022	WWTP Administration Building (Building A) Remodel/Renovation	100%	0	100,000	0	0	0	0	0	0	0	0	0	100,000
16-P024	WWTP Fire Alarm System Upgrades	100%	143,120	0	0	0	0	0	0	0	0	0	0	143,120
16-P028	Biogas Treatment System Improvements	33%	747,450	426,360	0	0	0	0	0	0	0	0	0	1,173,810
16-P030	EPS1 and EPS2 Pump Modifications	100%	0	100,703	0	0	0	0	0	0	0	0	0	100,703
17-P004	Primary Sedimentation Expansion and Improvements	15%	507,395	0	0	0	0	0	0	0	0	0	0	507,395
18-P010	Biogas Flare Improvements	100%	340,000	920,000	0	0	0	0	0	0	0	0	0	1,260,000
00-P026	RWTF Replacement and Rehabilitation PROGRAM	100%	500,000	500,000	1,200,000	1,600,000	1,900,000	2,100,000	2,300,000	2,300,000	2,100,000	2,100,000	6,500,000	23,100,000
05-3206	WWTP SCADA Improvements	100%	3,030,000	1,000,000	0	0	0	0	0	0	0	0	0	4,030,000
18-P002	WWTP Electrical System Master Plan	100%	0	500,000	0	0	0	0	0	0	0	0	0	500,000
18-P016	Alum Addition	75%	1,144,500	0	0	0	0	0	0	0	0	0	0	1,144,500
14-P005	Wet Weather Flow Capacity and Chloring Contact Tank Dewatering	e 85%	0	0	616,250	0	0	0	0	0	0	0	0	616,250
18-P014	WWTP Recycled and Potable Water Systems	100%	0	0	200,000	184,000	0	0	0	0	0	0	0	384,000
18-P017	Public Outreach Signage at WWTP	100%	0	100,000	0	0	0	0	0	0	0	0	0	100,000
20-P006	Recoating of Digester Interior Covers 3, 2 and 1	2, 100%	227,066	0	0	0	0	0	0	0	0	0	0	227,066
22-P021	Hypochlorite Building Rehabilitation	100%	0	490,000	0	0	0	0	0	0	0	0	0	490,000
T16-11	WWTP Motor Control Center and Distribution Panel "A" Improvements	100%	0	0	0	0	0	0	1,350,600	0	0	0	0	1,350,600
T16-40	WWTP Pavement Repair	100%	0	0	0	200,000	0	0	0	0	0	0	0	200,000
19-P003	WWTP Fencing and Security - Phase 2	100%	0	1,210,000	0	0	0	0	0	0	0	0	0	1,210,000
T16-54	Odor Reduction Tower Replacement	100%	0	0	0	0	2,000,000	0	0	0	0	0	0	2,000,000
T18-15	Cogeneration Engine Replacement	100%	0	0	0	0	0	0	2,000,000	5,000,000	5,000,000	0	0	12,000,000
T16-42	Nutrient Removal	80%	0	0	0	0	0	0	0	0	5,600,000	12,000,000	12,000,000	29,600,000
			9,902,013	6,557,063	3,794,550	10,017,374	4,623,800	3,573,800	6,789,400	7,673,800	13,073,800	14,473,800	20,369,000	100,848,400

CIP 10-Year Plan for Fiscal Years Ending 2022 through 2031

Portion of Estimated Cashflow Allocated to Regional Wastewater Expansion (Fund 320)

*Amounts shown are District costs net of grants and other fundings

CIP No.	Project Name	320 Split	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Future	Total
Regiona	Wastewater Treatment													
T20-14	WWTP/Biosolids Master Plan	85%	0	0	552,500	0	0	0	0	0	0	0	0	552,500
22-P009	WWTP Energy Master Plan	20%	160,000	0	0	0	0	0	0	0	0	0	0	160,000
16-P028	Biogas Treatment System Improvements	67%	1,517,550	865,640	0	0	0	0	0	0	0	0	0	2,383,190
17-P004	Primary Sedimentation Expansion and Improvements	85%	2,875,236	0	0	0	0	0	0	0	0	0	0	2,875,236
18-P016	Alum Addition	25%	381,500	0	0	0	0	0	0	0	0	0	0	381,500
14-P005	Wet Weather Flow Capacity and Chlorine Contact Tank Dewatering	15%	0	0	108,750	0	0	0	0	0	0	0	0	108,750
18-P013	Biosolids Dewatering Facility	100%	0	300,000	0	0	0	2,525,000	12,120,000	0	0	0	11,900,000	26,845,000
T10-62	Emergency Power for Distribution Panel-	100%	0	0	0	0	0	0	0	0	0	0	5,560,000	5,560,000
T10-83	Cover Primary Clarifiers	100%	0	0	0	0	0	0	0	0	4,694,000	0	0	4,694,000
T12-08	Cover Settled Sewage Channel and Selector	100%	0	0	0	0	2,358,000	0	0	0	0	0	0	2,358,000
T16-42	Nutrient Removal	20%	0	0	0	0	0	0	0	0	1,400,000	3,000,000	3,000,000	7,400,000
			4,934,286	1,165,640	661,250	0	2,358,000	2,525,000	12,120,000	0	6,094,000	3,000,000	20,460,000	53,318,176

CIP 10-Year Plan for Fiscal Years Ending 2022 through 2031

Portion of Estimated Cashflow Allocated to Water Replacement (Fund 610)

*Amounts shown are District costs net of grants and other fundings

CIP No.	Project Name	610 Split	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Future	Total
General														
20-A024	Field Operations Facility - Skylight Replacements	85%	68,000	0	0	0	0	0	0	0	0	0	0	68,000
20-A029	District Office Accessibility Improvement	s 37%	0	0	0	0	0	0	185,000	0	0	0	0	185,000
22-A001	FOF and WWTP Flag Poles	25%	0	12,500	0	0	0	0	0	0	0	0	0	12,500
22-A002	Field Operations Facility Warehouse Storage Improvements	85%	0	85,000	0	0	0	0	0	0	0	0	0	85,000
22-A005	District Office Backup Generator Replacement	38%	0	361,000	0	0	0	0	0	0	0	0	0	361,000
18-P008	Industrial Control Network Security Essentials	37%	98,978	0	0	0	0	0	0	0	0	0	0	98,978
20-A002	Enterprise Resource Program System Conversion	38%	285,000	0	0	0	0	0	0	0	0	0	0	285,000
22-A006	District Office Roof Repair	38%	26,600	0	0	0	0	0	0	0	0	0	0	26,600
00-A003	Street Overlay Modification PROGRAM	50%	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	80,000	400,000	1,200,000
T20-13	Gleason Drive Property Planning Study	55%	0	0	0	0	0	0	0	0	0	0	110,000	110,000
20-A001	Computing Infrastructure Replacement	38%	60,800	45,600	0	0	0	0	0	0	0	0	0	106,400
17-A007	Wide Area Network Communications Phase 2	44%	59,666	0	0	0	0	0	0	0	0	0	0	59,666
T18-23	Fleet Replacement PROGRAM	50%	0	0	150,000	150,000	150,000	150,000	150,000	150,000	150,000	150,000	750,000	1,950,000
T18-24	Facilities Asset Replacement PROGRAM	32%	0	0	137,600	137,600	137,600	137,600	137,600	137,600	137,600	137,600	688,000	1,788,800
T18-02	Network Infrastructure and Security	38%	0	38,000	57,000	95,000	0	190,000	0	0	0	0	0	380,000
Joint Po	wers Authority													
22-R014	DERWA HVAC Replacements	100%	0	0	0	0	0	0	0	0	0	0	0	0
22-R015	DERWA UV Lamp Electrical Connectors	100%	0	0	0	0	0	0	0	0	0	0	0	0
22-R016	DERWA Sand Filtration Ultra Violet System Cable Harness Replacement	100%	0	0	0	0	0	0	0	0	0	0	0	0
22-R017	DERWA Chlorine Mixer Replacement	100%	0	0	0	0	0	0	0	0	0	0	0	0
22-R018	DERWA Sand Filtration Ultra Violet and Microfiltration System Operational Analysis	100%	0	0	0	0	0	0	0	0	0	0	0	0

Portion of Estimated Cashflow Allocated to Water Replacement (Fund 610)

CIP No.	Project Name	610 Split	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Future	Total
22-R019	DERWA Air Relief Valve Rehabilitation/Replacements	100%	0	0	0	0	0	0	0	0	0	0	0	0
20-W021	DERWA TIPS VFD Upgrades	100%	0	0	0	0	0	0	0	0	0	0	0	0
T16-37	DERWA Microfiltration Rack and Membrane Replacement	100%	0	0	0	0	0	0	997,500	0	0	0	0	997,500
Regional	Wastewater Treatment													
T22-21	Backup Power at Laboratory	20%	0	0	18,000	0	0	0	0	0	0	0	0	18,000
T22-28	Laboratory Cabinetry Replacement	20%	0	0	40,000	0	0	0	0	0	0	0	0	40,000
Water S	ystem													
19-W004	Valve and Blow-Off Replacement	100%	1,211,000	1,211,000	0	0	0	0	0	0	0	0	0	2,422,000
20-W019	Automated Water Quality Monitoring	100%	250,000	630,000	0	0	0	0	0	0	0	0	0	880,000
T22-03	Water Line Replacements - Camp Parks North of 8th Street	100%	0	0	0	0	405,000	4,595,000	0	0	0	0	0	5,000,000
T22-04	Water Line Replacement - Camp Parks South of 8th Street	100%	0	0	510,000	5,770,000	0	0	0	0	0	0	0	6,280,000
T22-05	Reservoir 1A Chloramination System Upgrade	100%	0	0	100,000	0	0	0	0	0	0	0	0	100,000
T22-19	Field Operations and District Facilities Energy Plan	95%	0	0	617,500	0	0	0	0	0	0	0	0	617,500
22-A003	Hydro-Excavation Spoils Storage Pad	100%	0	150,000	0	0	0	0	0	0	0	0	0	150,000
22-A004	Fiscal Year 2022 Manhole and Valve Adjustments - City of Dublin	85%	192,100	0	0	0	0	0	0	0	0	0	0	192,100
22-W007	Reservoir 1B Mixing System Replacement	t 100%	0	260,000	0	0	0	0	0	0	0	0	0	260,000
22-W020	2021 Alternative Water Supply Study – Phase 2	75%	187,500	187,500	750,000	0	0	0	0	0	0	0	0	1,125,000
16-W012	Potable Water Pump Station Standby Generators/Emergency Response	100%	2,760,905	0	0	0	0	0	0	0	0	0	0	2,760,905
18-W003	Reservoir 2 Recoating	100%	1,085,000	0	0	0	0	0	0	0	0	0	0	1,085,000
18-W021	Recycled Water Fire Hydrant Upgrades	100%	50,000	0	0	0	0	0	0	0	0	0	0	50,000
16-A016	District Facilities Security Project - Phase	2 90%	0	0	135,000	0	0	0	0	0	0	0	0	135,000
00-W011	Water System Replacement and Rehabilitation PROGRAM	100%	300,000	300,000	950,000	1,500,000	2,000,000	3,500,000	5,000,000	6,500,000	8,000,000	9,000,000	40,000,000	77,050,000
00-W002	Long-Term Water Resiliency PROGRAM	75%	0	0	0	0	375,000	750,000	1,125,000	1,875,000	1,875,000	9,375,000	14,625,000	30,000,000
12-W016	Reservoir 1B Recoating	100%	150,000	0	0	0	0	0	0	0	0	0	0	150,000

Portion of Estimated Cashflow Allocated to Water Replacement (Fund 610)

CIP No.	Project Name	610 Split	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Future	Total
16-W017	, ,	100%	811,162	5,780,400	0	0	0	0	0	0	0	0	0	6,591,562
	and Canterbury Area													
17-A006	Field Operations Pavement Rehabilitation	n 100%	0	324,630	250,000	200,000	40,000	200,000	200,000	0	0	0	0	1,214,630
18-W004	Pump Station 3A MCC Improvements	100%	575,000	0	0	0	0	0	0	0	0	0	0	575,000
20-W023		100%	0	550,000	0	0	0	0	0	0	0	0	0	550,000
	Adams to Davis Street													
20-W025	Pump Station 1A Rehabilitation	100%	330,000	3,220,000	2,965,000	0	0	0	0	0	0	0	0	6,515,000
T16-28	Water Lines Replacement - Tamarack	100%	0	0	0	0	205,000	1,355,000	0	0	0	0	0	1,560,000
	Drive - Village Pkwy to Firethorn Way													
20-W024		100%	2,328,000	0	0	0	0	0	0	0	0	0	0	2,328,000
	Mitchell Drive, Evans Avenue													
20-W017	Water System Master Plan and	80%	400,000	0	0	0	0	0	0	0	0	0	0	400,000
	Operations Plan Update													
T16-31	Water Line Replacement - Ironwood Driv	e 100%	0	0	0	0	0	0	1,830,000	0	0	0	0	1,830,000
T16-67	Reservoir Recoating PROGRAM	100%	0	0	0	620,000	0	0	0	0	1,950,000	2,800,000	9,370,000	14,740,000
-			11,309,711	13,235,630	6,760,100	8,552,600	3,392,600	10,957,600	9,705,100	8,742,600	12,192,600	21,542,600	65,943,000	172,334,141

CIP 10-Year Plan for Fiscal Years Ending 2022 through 2031

Portion of Estimated Cashflow Allocated to Water Expansion (Fund 620)

*Amounts shown are District costs net of grants and other fundings

CIP No.	Project Name	620 Split	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	Future	Total
General														
T20-13	Gleason Drive Property Planning Study	30%	0	0	0	0	0	0	0	0	0	0	60,000	60,000
Joint Pov	wers Authority													
16-R014	DERWA Recycled Water Plant - Phase 2	100%	0	0	0	0	0	0	0	0	0	0	0	0
Water Sy	ystem													
20-W027	Dublin Boulevard Extension Water Facilities	100%	0	50,000	965,000	965,000	0	0	0	0	0	0	0	1,980,000
22-W020	2021 Alternative Water Supply Study – Phase 2	25%	62,500	62,500	250,000	0	0	0	0	0	0	0	0	375,000
17-W003	Reservoir 10A	100%	845,000	8,076,225	9,550,000	0	0	0	0	0	0	0	0	18,471,225
00-W002	Long-Term Water Resiliency PROGRAM	25%	0	0	0	0	125,000	250,000	375,000	625,000	625,000	3,125,000	4,875,000	10,000,000
14-W008	Reservoir 20B	100%	505,000	4,132,000	2,322,269	0	0	0	0	0	0	0	0	6,959,269
20-W017	Water System Master Plan and Operations Plan Update	20%	100,000	0	0	0	0	0	0	0	0	0	0	100,000
20-W015	Turnout 6	100%	7,188,206	1,728,000	0	0	0	0	0	0	0	0	0	8,916,206
08-6202	Pump Station 20A Improvements	100%	0	0	0	0	0	470,000	0	0	0	0	0	470,000
			8,700,706	14,048,725	13,087,269	965,000	125,000	720,000	375,000	625,000	625,000	3,125,000	4,935,000	47,331,700

Chapter 4: Project Worksheets

This Chapter provides a more detailed look at individual CIP projects and programs. Each project or program has a worksheet that presents the following fields:

- 1. Project Category
- 2. CIP Number and Project Title
- 3. Funding Allocation and Allocation Basis
- 4. Project Manager
- 5. Status
- 6. Project Summary
- 7. CEQA & Reference Documents
- 8. Ten-Year Cash Flow and Estimated Project Cost

The worksheets are grouped by the categories described below and arranged in the order of project timing. An index sheet listing the projects contained within each category is provided prior to the worksheets in that category.

- 1. **General:** Projects in the "general" category include those which are all-purpose, and typically affect District-wide assets that are not specific to one business enterprise. An example of a general project is the District Office Accessibility Improvements (20-A029), and the Enterprise Resource Program Conversion project (20-A002).
- 2. Joint Powers Authority: Projects in the "joint powers authority," (JPA) category are Dublin San Ramon Services District and East Bay Municipal Utility District Recycled Water Authority (DERWA) projects, which the District may manage, but only contributes a defined portion to, per the associated agreement. An example of a project in this category is the DERWA Air Relief Valve Rehabilitation/Replacement project (22-R019).
- 3. **Water System:** Projects in the "water system" category are those which are related to the water system business enterprise. An example of a water system project is the Water Lines Replacement Wineberry and Canterbury Area project (16-W017).
- 4. Wastewater Collection: Projects in the "wastewater collection system" category are those which are related to the local wastewater collection system business enterprise. An example of a wastewater collection system project is the East Dublin 36" Trunk Sewer Rehabilitation project (20-S013).
- 5. **Regional Wastewater Treatment:** Projects in the "regional wastewater treatment" category are those which are related to the regional wastewater treatment business enterprise. An example of a regional wastewater treatment project is the Bio-Gas Treatment System Improvements project (16-P028).

CIP 10-YEAR PLAN FYEs 2022 through 2031

* Listed according to project timing from earliest to latest

CATEGORY: GENERAL

CIP No.	Project Name	Page
2-Year Projec	<u>cts</u>	
20-A024	Field Operations Facility - Skylight Replacements	44
22-A002	Field Operations Facility Warehouse Storage Improvements	45
22-A005	District Office Backup Generator Replacement	46
18-P008	Industrial Control Network Security Essentials	47
20-A002	Enterprise Resource Program System Conversion	48
22-A006	District Office Roof Repair	49
20-A001	Computing Infrastructure Replacement	50
17-A007	Wide Area Network Communications Phase 2	51
00-A003	Street Overlay Modification PROGRAM	52
Future Proje	<u>cts</u>	
20-A029	District Office Accessibility Improvements	52
T20-13	Gleason Drive Property Planning Study	54
T18-02	Network Infrastructure and Security	55
T18-23	Fleet Replacement PROGRAM	56
T18-24	Facilities Asset Replacement PROGRAM	57

CATEGORY: GENERAL Water Replacement (Fund 610)

CIP No. 20-A024 Field Operations Facility - Skylight Replacements

Funding Allocation: 85% **610** 15% **210**

Project Manager: Shawn Quinlan Status: Continuing Project

Project Summary:

This project will replace all skylights at the Field Operations Facility (FOF). The building was constructed in 1997. The District acquired the property in March 2016, and completed renovations in the spring and summer of 2016. The renovations did not include replacement of the original skylights, many of which are now leaking.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: N/A

Fund Allocation Basis: Based on Field Operations staff allocation between water and local wastewater collection.

10-Year Cash Flow and Estimated Project Cost:

Prio	r	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
	0	80,000	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$80,000

Current Adopted Budget \$80,000

Increase/(Decrease) \$0

CATEGORY: GENERAL Water Replacement (Fund 610)

CIP No. 22-A002 Field Operations Facility Warehouse Storage Improvements

Funding Allocation: 85% **610** 15% **210**

Project Manager: Sean O'Reilly Status: New Project

Project Summary:

In 2016, the District acquired a commercial building and warehouse at 7035 Commerce Circle in Pleasanton for our Field Operations Division. Infrastructure including building security, HVAC improvements and control systems, new materials bins, a backup generator, business and SCADA networks, and fencing and parking improvements have been completed. The warehouse is used for storing materials but lacks appropriate shelving to fully utilize the space. This project will add taller industrial shelving units to the warehouse to increase indoor storage capacity. The new shelving units will be engineered to meet current seismic codes.

CEQA:

Reference:

Fund Allocation Basis: Based on Field Operations staff allocation between water and local wastewater collection.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	100,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$100,000Current Adopted Budget\$0Increase/(Decrease)\$100,000

CATEGORY: GENERAL Regional Wastewater Replacement (Fund 310)

CIP No. 22-A001 FOF and WWTP Flag Poles

Funding Allocation: 50% **310** 25% **210** 25% **610**

Project Manager: Steven Delight Status: New Project

Project Summary:

This project will install flag poles at the Field Operations Facility and the Wastewater Treatment Plant.

CEQA: Categorical Exemption [CEQA Guideline15302].

Reference: General Manager Directive: Flag Display Policy (February 13, 2019)

Fund Allocation Basis:

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	50,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$50,000 DSRSD Net Cost: \$

Current Adopted Budget \$0 Other Funding:

Increase (/Decrease) \$50,000

Increase/(Decrease) \$50,000

CATEGORY: GENERAL

Regional Wastewater Replacement (Fund 310)

CIP No. 22-A005 District Office Backup Generator Replacement

Funding Allocation: 50% 310 38% 610 12% 210

Project Manager: Sean O'Reilly Status: New Project

Project Summary:

This project will replace the exisiting backup generator at the District Office. The existing generator is a 1991 model, which makes it very difficult to find replacement parts. The project will study the load needs of the District Office, which may result in a larger generator, to power more of the facility in the event of a power outage.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: N/A

Fund Allocation Basis: Based on employee allocation.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	950,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$950,000Current Adopted Budget\$0Increase/(Decrease)\$950,000

CATEGORY: GENERAL Regional Wastewater Replacement (Fund 310)

CIP No. 18-P008 Industrial Control Network Security Essentials

Funding Allocation: 52% 310 37% 610 11% 210

Project Manager: Aomar Bahloul Status: Continuing Project

Project Summary:

This project will improve network infrastructure at the wastewater treatment plant by implementing a tighter security schema and standardizing network switching. Much of the current industrial control switching is legacy equipment which is consumer grade, rather than the more secure industrial grade. The legacy equipment is also past end-of-life and no longer supported by the manufacturer. Additional security also allows for more wireless connections to provide denser connectivity from mobile devices. This project benefits the entire SCADA network, including water system and local collection system facilities, and is split funded based on the number of facilities in each enterprise.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: Staff Recommendations.

Fund Allocation Basis: Project will benefit entire SCADA network including treatment plant and field operations facilities.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
132,492	267,508	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$400,000Current Adopted Budget\$400,000Increase/(Decrease)\$0

CATEGORY: GENERAL

Regional Wastewater Replacement (Fund 310)

CIP No. 20-A002 Enterprise Resource Program System Conversion

Funding Allocation: 50% 310 38% 610 12% 210

Project Manager: Carol Atwood Status: Continuing Project

Project Summary:

This project will include procurement and implementation of a new Enterprise Resource Program (ERP). The current ERP is over fifteen years old and the vendor has indicated they it may end support for the product in the coming years. This ERP is used to managed all financial data for the District, including accounting, budget preparation, payroll, purchasing, and utility billing. The project includes system configuration, data migration, data exchange testing, conversion validation, forms and reports planning, end-user training, parallel testing and final transition with technical support. The cost also includes post-conversion legacy system data access.

CEQA: Not a project under CEQA [CEQA Guideline 15378].

Reference: Information Technology Services Master Plan (2017)

Fund Allocation Basis: Based on employee allocation

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
750,000	750,000	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$1,500,000Current Adopted Budget\$1,510,000Increase/(Decrease)(\$10,000)

CATEGORY: GENERAL

CIP No. 22-A006 District Office Roof Repair

Funding Allocation: 50% 310 38% 610 12% 210

Project Manager: Jason Ching Status: Future Project

Regional Wastewater Replacement (Fund 310)

Project Summary:

This District Office was constructed in 1992, and over time, the roof has developed several leaks. This project will rehabilitate the flat roof portion only. The underling flat roof membrane (i.e plastic sheeting) will be removed and then rehabilitated/resealed. Flashing between the flash roof and the existing parapet sections may also need to be repaired.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: n/a

Fund Allocation Basis: Based on employee allocation.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
C	70,000	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$70,000Current Adopted Budget\$0Increase/(Decrease)\$70,000

CATEGORY: GENERAL

Regional Wastewater Replacement (Fund 310)

CIP No. 20-A001 Computing Infrastructure Replacement

Funding Allocation: 50% 310 38% 610 12% 210

Project Manager: Information Technology Status: New Project

Project Summary:

This project will modernize and replace the computing infrastructure for the processing of multiple database applications including our Enterprise Resource Planning (ERP), Geographic Information System (GIS), Laboratory Information Management System (LIMS) and Computerized Maintenance Management System (CMMS). Blade servers and storage area networks were originally purchased in 2011. By 2022, the equipment will be at least ten years old, three years past best practice replacement schedule of seven years.

CEQA: Not a project under CEQA [CEQA Guideline 15378]. **Reference:** Best practice for network technology replacement.

Fund Allocation Basis: Based on employee allocation.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	160,000	120,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$280,000Current Adopted Budget\$280,000Increase/(Decrease)\$0

CATEGORY: GENERAL Regional Wastewater Replacement (Fund 310)

CIP No. 17-A007 Wide Area Network Communications Phase 2

Funding Allocation: 46% 310 44% 610 10% 210

Project Manager: Steven Delight Status: Continuing Project

Project Summary:

This project will allow for increased access speed and bandwidth at remote sites. Increases in application demands and database systems cause delays in data transmissions and production slowdowns. This project will remove current AT&T leased data lines and install District-owned, multi-strand fiber lines or wireless networks for communications in data and phone systems for faster and bigger-piped communication links. This project will upgrade the existing communication links for the Wastewater Treatment Plant (WWTP) and Field Operations Facility (FOF) in areas of data and phone communications. These upgrades will also allow for future bandwidth requirements in areas of audio and video transmission. Through FYE 2019, the project has completed 1) the fiber connection between the District Office and WWTP, 2) the wireless connection between the District Office and FOF, 3) wireless connection between FOF and RWTP, and 4) purchase and installation of wide area network security appliances to support these connections, and 5) the installation of fiber between RWTP and the new FOF on Commerce Circle and the LAVWMA site. The remaining funds will install fiber between the District Office and the new City of Dublin data center (currently under construction).

CEQA: Categorical Exemption [CEQA Guideline 15303]

Reference: 2002 Information Technology Master Plan

Fund Allocation Basis: Project is replacement-oriented and will use the standard "general capital asset" allocation

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
479,396	135,604	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$615,000Current Adopted Budget\$615,000Increase/(Decrease)\$0

CATEGORY: GENERAL Regional Wastewater Replacement (Fund 310)

CIP No. 00-A003 Street Overlay Modification PROGRAM

Funding Allocation: 50% **210** 50% **610**

Project Manager: Rudy Portugal Status: Continuing Program

Project Summary:

The District is required to adjust infrastructure access to any increases in street grades. This project will raise manholes and valve boxes annually in conjunction with overlay projects conducted by the City of Dublin and City of San Ramon using the Tri-Valley Intergovernmental Reciprocal Services Agreement.

CEQA: Categorical Exemption [CEQA Guideline 15301].

Reference: Coordination meetings with City staff.

Fund Allocation Basis: Fund split is based upon the number of valve boxes and manholes in the system. There are twice as

many valve boxes as manholes, however, manholes cost twice as much to raise. Each project

created will be based upon the actual work included.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	160,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000	160,000	800,000

Total Estimated Project Cost\$2,400,000Current Adopted Budget\$2,400,000Increase/(Decrease)\$0

CATEGORY: GENERAL Regional Wastewater Replacement (Fund 310)

CIP No. 20-A029 District Office Accessibility Improvements

Funding Allocation: 53% **310** 37% **610** 10% **210**

Project Manager: Jason Ching Status: Future Project

Project Summary:

The project will incorporate accessibility improvements and path of travel upgrades for the District Office. The scope of work will be in accordance with the recommendations specified in the accessibility inspection survey report dated January 20, 2020 (Cal Accessibility). The scope of work includes accessibility improvements for the east parking lot (ADA accessible stalls, ramps), path of travel upgrades within the drought garden, path of travel upgrades for the pathway leading from the bus stop to the Main Lobby, path of travel upgrades for pathway leading from the north parking lot to the engineering area, and accessibility improvements for the patio area immediately outside the kitchen/lunch room.

CEQA: Categorical Exemption [CEQA Guideline 15301, 15302, 15304]

Reference: Cal Accessibility Inspection Report - January 20, 2020

Fund Allocation Basis: Fund split is based on the same allocation as employee costs, as the building is used by employees

to conduct District business

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future	
0	0	0	0	0	0	0	500,000	0	0	0	0	l

Total Estimated Project Cost\$500,000Current Adopted Budget\$350,000Increase/(Decrease)\$150,000

CATEGORY: GENERAL Water Replacement (Fund 610)

CIP No. T20-13 Gleason Drive Property Planning Study

Funding Allocation: 55% 610 30% 620 10% 210 5% 220

Project Manager: TBD Status: Future Project

Project Summary:

In May 2007, the District purchased an undeveloped 12.8 acre property on Gleason Drive in Dublin, with the intention of locating a future District facilities on the site. The site is adjacent to other public and light industrial uses. This project will evaluate the use of the site for future district needs such as well facilities, a corporation yard, or office space and include site planning, grading, infrastructure improvements, and construction costs.

CEQA: Categorical Exemption [CEQA Guideline 15306].

Reference: Field Operations Division Corporation Yard Study, January 2009, HKIT Architects (CIP 95CN040) **Fund Allocation Basis:** Based upon Field Operation cost between potable water, recycled water, and sewer activities.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	0	0	0	0	0	0	0	0	200,000

Total Estimated Project Cost\$200,000Current Adopted Budget\$0Increase/(Decrease)\$200,000

CATEGORY: GENERAL Regional Wastewater Replacement (Fund 310)

Project Manager: TBD Status: Future Project

Project Summary:

Most "best practices" call for network technology replacement every seven years. This is often the product life-cycle for network switching, communications, and includes the regular faster cycling review for network security. This project will address replacements needed for the business network in years 2023 through 2025, and the Field Operations Facility SCADA network in 2027.

CEQA: Not a project under CEQA [CEQA Guideline 15378].

Reference: Best practice for network technology replacement.

Fund Allocation Basis: Based on employee allocation.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	100,000	150,000	250,000	0	500,000	0	0	0	0	0

Total Estimated Project Cost \$1,000,000

Current Adopted Budget \$0

Increase/(Decrease) \$1,000,000



CATEGORY: GENERAL Water Replacement (Fund 610)

CIP No. T18-23 Fleet Replacement PROGRAM

Funding Allocation: 50% 610 30% 310 20% 210

Project Manager: Status: Future Program

Project Summary:

This program will set aside annual capital outlay funding to meet the District's vehicle asset replacement requirements in future years. The District will use a comprehensive approach and follow best practice fleet operations to implement a cost effective fleet replacement program. Although not a capital project, this program is included in the CIP planning to make sure that capital outlay cashflow is incorporated to support future rate studies.

CEQA: Not a project under CEQA [CEQA Guideline 15378].

Reference: Current vehicle asset inventory.

Fund Allocation Basis: Ratio based on department/function associated with each vehicle.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000	1,500,000

Total Estimated Project Cost\$3,900,000Current Adopted Budget\$0Increase/(Decrease)\$3,900,000

CATEGORY: GENERAL

CIP No. T18-24 Facilities Asset Replacement PROGRAM

Funding Allocation: 66% 310 32% 610 2% 210

Project Manager: Status: Future Program

Regional Wastewater Replacement (Fund 310)

Project Summary:

This program will set aside funding to meet the District's facilities asset replacement requirements in future years. The District will use a comprehensive approach and follow best practice to implement a cost effective facilities asset replacement program. This program is included in the CIP planning to assure funding for future repair or replacement of facility related assets, such as roof, HVAC, components, and lighting. The estimated annual replacement cost is based on 1% of the District's total real property value per California Sanitation Risk Management Authority (CSRMA) report dated January 2016.

CEQA: CEQA requirement will be evaluated for individual projects at the time of inception.

Reference:

Fund Allocation Basis: Ratio based on department/function associated with each facility.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	430,000	430,000	430,000	430,000	430,000	430,000	430,000	430,000	2,150,000

Total Estimated Project Cost\$5,590,000Current Adopted Budget\$0Increase/(Decrease)\$5,590,000

CIP 10-YEAR PLAN FYEs 2022 through 2031

* Listed according to project timing from earliest to latest

CATEGORY: JOINT POWERS AUTHORITY

CIP No	. Project Name	Page
2-Year Pr	<u>ojects</u>	
22-R0	4 DERWA HVAC Replacements	58
22-R0	5 DERWA UV Lamp Electrical Connectors	59
22-R0	6 DERWA Sand Filtration Ultra Violet System Cable Harness Replacement	60
22-R0	7 DERWA Chlorine Mixer Replacement	61
22-R0	8 DERWA Sand Filtration Ultra Violet and Microfiltration System Operational Analysis	62
22-R0	9 DERWA Air Relief Valve Rehabilitation/Replacements	63
16-R0	4 DERWA Recycled Water Plant - Phase 2	64
20-W(21 DERWA TIPS VFD Upgrades	65
Future Pr	<u>pjects</u>	
T16-3	DERWA Microfiltration Rack and Membrane Replacement	66

CATEGORY: JOINT POWERS AUTHORITY

Water Replacement (Fund 610)

CIP No. 22-R014 DERWA HVAC Replacements

Funding Allocation: 100% 610

Project Manager: TBD Status: New Project

Project Summary:

This project will replace the HVAC systems in Building M, and Building O, Building R. The systems at each location have reached their useful life.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: N/A

Fund Allocation Basis: Project is required to replace existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	76,000	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost	\$76,000	DSRSD Net Cost: \$34,960
Current Adopted Budget	\$0	Other Funding: DERWA Project (DSRSD 46%, EBMUD 27%, Pleasanton
Increase/(Decrease)	\$76,000	27%)

CATEGORY: JOINT POWERS AUTHORITY

Water Replacement (Fund 610)

CIP No. 22-R015 DERWA UV Lamp Electrical Connectors

Funding Allocation: 100% 610

Project Manager: TBD Status: New Project

Project Summary:

The project will replace the electrical connectors to the UV lamps due to water intrusion. There are 1,200 connectors in the UV system. The replacement will be phased over two years.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: N/A

Fund Allocation Basis: Project required to replace existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
	50,000	50,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost DSRSD Net Cost: \$46,000

Current Adopted Budget Other Funding: DERWA Project (DSRSD 46%, EBMUD 27%, Pleasanton

Increase/(Decrease) 27%)

CATEGORY: JOINT POWERS AUTHORITY

Water Replacement (Fund 610)

CIP No. 22-R016 DERWA Sand Filtration Ultra Violet System Cable Harness Replacement

Funding Allocation: 100% 610

Project Manager: TBD Status: New Project

Project Summary:

This project will replace cable harnesses in forty-sixty modules of the SFUV system over the next two years.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: N/A

Fund Allocation Basis: Project required to replace existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	75,000	75,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$150,000DSRSD Net Cost: \$69,000Current Adopted Budget\$0Other Funding: DERWA Project (DSRSD 46%, EBMUD 27%, Pleasanton 27%)Increase/(Decrease)\$150,00027%)

CATEGORY: JOINT POWERS AUTHORITY

Water Replacement (Fund 610)

CIP No. 22-R017 DERWA Chlorine Mixer Replacement

Funding Allocation: 100% 610

Project Manager: TBD Status: New Project

Project Summary:

This project will replace the existing chlorine mixer in the wet well with a mixer designed for use with liquid chlorine to improve chlorine mixing in the system.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: N/A

Fund Allocation Basis: Project is required to replace existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	55,000	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost	\$55,000	DSRSD Net Cost: \$25,300
Current Adopted Budget	\$0	Other Funding: DERWA Project (DSRSD 46%, EBMUD 27%, Pleasanton
Increase/(Decrease)	\$55,000	27%)

CATEGORY: JOINT POWERS AUTHORITY

Water Replacement (Fund 610)

CIP No. 22-R018 DERWA Sand Filtration Ultraviolet and Microfiltration System Operational Analysis

Funding Allocation: 100% 610

Project Manager: TBD Status: New Project

Project Summary:

This project is an operational analysis of the sand filtration ultraviolet (SFUV) and microfiltration (MF) systems. The project will fund a third-party study to identify operational strategies and potential improvements for operational efficiency. In discussing DERWA operations, maintenance, and capital needs with District staff as a part of the budget development process, several SFUV and MF projects were proposed which warranted a high-level review of total system operation. DERWA currently operates the MF system during low demand periods and as a backup during maintenance of the SFUV system. Prior to the Recycled Water Treatment Plan Expansion project, it was also used to provide treatment during peak demand periods. While the MF system provides redundancy and flexibility in operations it also increases operation and maintenance costs. This analysis will review the cost and benefits in operating the two systems and determine operational strategies to potentially operate only the SFUV system to meet demands.

CEQA: Not a project under CEQA [CEQA Guideline 15378].

Reference: N/A

Fund Allocation Basis: This project is required to replace existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	50,000	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost	\$50,000	DSRSD Net Cost (Contribution to JPA): \$23,000
Current Adopted Budget	\$0	Other Funding: DERWA Project (DSRSD 46%, EBMUD 27%, Pleasanton
Increase/(Decrease)	\$50.000	27%)

CATEGORY: JOINT POWERS AUTHORITY

Water Replacement (Fund 610)

CIP No. 22-R019 DERWA Air Relief Valve Rehabilitation/Replacements

Funding Allocation: 100% 610

Project Manager: TBD Status: New Project

Project Summary:

There are sixty-eight air relief valves in the DERWA system. This project will rehabilitate or replace the air relief valves over the course of three years. This project will also repair ancillary valve pots in the vicinity of the air relief valves as needed.

CEQA: Categorical Exemption [CEQA Guideline 15302

Reference: N/A

Fund Allocation Basis: Project is required to replace or rehabilitate existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	45,000	45,000	45,000	0	0	0	0	0	0	0	0

Total Estimated Project Cost	\$135,000	DSRSD Net Cost (Contribution to JPA): \$62,100
Current Adopted Budget	\$0	Other Funding: DERWA Project (46% DSRSD, 27% EBMUD, 27%
Increase/(Decrease)	\$135,000	Pleasanton)

CATEGORY: JOINT POWERS AUTHORITY Water Expansion (Fund 620)

CIP No. 16-R014 DERWA Recycled Water Plant - Phase 2

Funding Allocation: 100% 620

Project Manager: Kevin Randeni Status: Continuing Project

Project Summary:

This DERWA project expanded the DERWA Water Recycling Plant from its design capacity of 9.7 mgd to 16.2 mgd. The project added a new band screen and ballasted flocculating clarifier and additional tertiary influent pumps, ultraviolet disinfection modules, and Pump Station R1 pumps. The project also included the replacement of VDFs at Pump Station R1. DSRSD is responsible for the design and construction of the facility expansion. Per the Agreement for the Sale of Recycled Water by DERWA to DSRSD and EBMUD and the DERWA Pleasanton Agreement, cost of the project will be funded in the same proportion as allocation of future incremental capacity rights.

CEQA Addendum to 1996 Dublin San Ramon Valley Recycled Water Program EIR

Reference: San Ramon Valley Recycled Water Facilities, July 1996; Dublin Recycled Water Expansion Project,

Title XVI Feasibility Study, Draft DERWA Reycled Water Treatment Facilites Plan, July 2015.

Fund Allocation Basis: Project in support of future water customers.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
19,311,000	35,000	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$19,346,000

Current Adopted Budget \$19,346,000

Increase/(Decrease) \$0

DSRSD Net Cost: \$9,145,700

Other Funding: \$10,576,300. DERWA project; cost share based on facility capacity allocation. For RWTP: DSRSD 46%, EBMUD 27%, Pleasanton 27%; For VFD Replacement at PSR1: DSRSD 59%, EBMUD 25%, Pleasanton 16%.



CATEGORY: JOINT POWERS AUTHORITY Water Replacement (Fund 610)

CIP No. 20-W021 DERWA TIPS VFD Upgrades

Funding Allocation: 100% 610

Project Manager: DERWA Manager Status: New Project

Project Summary:

The existing VFDs for the three original TIPS pumps are 15+ years old and have become obsolete. The scope of this project is to upgrade the three VFDs to a current make and model. While performing the VFD upgrade, the industrial control network will also be upgraded to Ethernet to allow for ease of maintenance and faster recoveries from breakdowns. The project includes installation, PLC programming, SCADA configuration, testing, and startup.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: DERWA Fiscal Year 2020 Budget (March 2019)

Fund Allocation Basis: Project is required to replace or rehabilitate existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	63,000	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost	\$63,000	DSRSD Net Cost: \$ 28,980
Current Adopted Budget	\$63,000	Other Funding: DERWA Project; DSRSD 46%, EBMUD 27%, Pleasanton
Increase/(Decrease)	\$0	27%

CATEGORY: JOINT POWERS AUTHORITY

Water Replacement (Fund 610)

CIP No. T16-37 DERWA Microfiltration Rack and Membrane Replacement

Funding Allocation: 100% 610

Project Manager: TBD Status: Future Project

Project Summary:

This project will replace the microfiltration/ultraviolet (MF/UV) facility membrane racks with an open platform membrane system designed for membrane module interchangeability for more competitive membrane pricing. The membranes, last replaced in 2017, will also be replaced as part of this project. The MF/UV system was constructed in 1998 and the membrane racks will be at the end of their useful life by 2025.

CEQA: Categorical Exemption [CEQA Guidelines 15301, 15303].

Reference: Microfiltration Membrane Replacement Evaluation, Carollo Engineers, October 2014.

Fund Allocation Basis: Project is required to replace or rehabilitate existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	0	0	0	0	3,500,000	0	0	0	0

Total Estimated Project Cost \$3,500,000 DSRSD Net Cost: \$997,500

Current Adopted Budget \$0 Increase/(Decrease) \$3,500,000 Other Funding: Pleasanton/DERWA share of cost \$2,502,500 based on DERWA Agreement for Sale of RW Water to EBMUD and DSRSD, July 2003



CIP 10-YEAR PLAN FYEs 2022 through 2031

* Listed according to project timing from earliest to latest

CATEGORY: WATER SYSTEM

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CIP 10-YEAR PLAN FYEs 2022 through 2031

* Listed according to project timing from earliest to latest

CATEGORY: WATER SYSTEM

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CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. 19-W004 Valve and Blow-Off Replacement

Funding Allocation: 100% 610

Project Manager: Sean O'Reilly Status: Continuing Project

Project Summary:

This project will repair/replace line and blow off valves throughout the water distribution system. Many of the line valves have broken over time and are located in the older parts of the service area. Repairing or replacing the valves is essential for system operation and minimizes the area for shutdowns. Blow off valves will also be strategically replaced within the water distribution system. The blow off valves will be replaced with larger valves that will improve flushing velocity and efficiency, which will improve water quality.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: Field Operations Request

Fund Allocation Basis: Project is required to replace existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
2,073,293	1,211,000	1,211,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$4,495,293

Current Adopted Budget \$3,250,000

Increase/(Decrease) \$1,245,293



CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. 20-W019 Automated Water Quality Monitoring

Funding Allocation: 100% 610

Project Manager: Irene Suroso Status: Continuing Project

Project Summary:

This project will install water quality monitors at all District potable and recycled water reservoirs, pump stations and turnouts. Analyzers will focus on key water quality indicators such as chlorine, fluoride and ammonia as well as other useful parameters. Data collected from analyzers will be used to track water quality effects resulting from operational strategy improvements and facilities upgrades.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: N/A

Fund Allocation Basis: Project is required to improve existing system water quality.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
20,000	250,000	630,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$900,000Current Adopted Budget\$900,000Increase/(Decrease)\$0

CATEGORY: WATER SYSTEM Water Expansion (Fund 620)

CIP No. 20-W027 Dublin Boulevard Extension Water Facilities

Funding Allocation: 100% 620

Project Manager: Ryan Pendergraft Status: Continuing Project

Project Summary:

The Alameda County Transportation Commission, Alameda County, and the cities of Dublin and Livermore have partnered on the Dublin Boulevard Extension Project (Extension Project), a 1.5-mile extension of Dublin Boulevard from Fallon Road in Dublin to North Canyons Parkway at Doolan Road in Livermore. To accommodate future development based on the City of Dublin's General Plan, this project will construct 5150 feet of 12 inch potable water pipeline and associated appurtenances in coordination with the Extension Project.

CEQA: Final EIR – Dublin Blvd. – North Canyons Parkway Extension Project (City of Dublin) – August 2019

Reference: DSRSD 2016 Water Master Plan.

Fund Allocation Basis: Project in support of future water customers.

10-Year Cash Flow and Estimated Project Cost:

Prio	•	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
	0	0	50,000	965,000	965,000	0	0	0	0	0	0	0

Total Estimated Project Cost \$1,980,000

Current Adopted Budget \$1,980,000

Increase/(Decrease) \$0



CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. 22-A003 Hydro-Excavation Spoils Storage Pad

Funding Allocation: 100% 610

Project Manager: Rudy Portugal Status: New Project

Project Summary:

Most routine and emergency repairs use hydro-excavation to not only pothole utilities, but also safely dig through existing buried infrastructure, reducing the likelihood of damage. The spoils from hydro-excavation are very wet and must be dried out prior to being disposed offsite. This project will install a concrete surface at the Field Operations Facility to decant wet hydro-excavation spoils from routine and emergency repairs. The concrete surface will be approximately 75 feet by 25 feet with a gentle slope and rounded curbs along the edge to allow water to flow by gravity away from the spoils pile to a drain. Pad locations will be evaluated as part of the planning process for the project to determine the best site.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: To be determined.

Fund Allocation Basis: Project is required to replace existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	150,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$150,000Current Adopted Budget\$0Increase/(Decrease)\$150,000

CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. 22-A004 Fiscal Year 2022 Manhole and Valve Adjustments - City of Dublin

Funding Allocation: 85% **610** 15% **210**

Project Manager: Rudy Portugal Status: New Project

Project Summary:

The District is required to adjust infrastructure access to any increases in street grades. This project will raise manholes and valve boxes in City of Dublin on Dublin Boulevard between Scarlett Drive and Hibernia Drive for Fiscal Year 2022.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: City of Dublin Capital Improvement Program

Fund Allocation Basis: Fund split is based upon the number of valve boxes and manholes in the project.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	226,000	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$226,000Current Adopted Budget\$0Increase/(Decrease)\$226,000

CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. 22-W007 Reservoir 1B Mixing System Replacement

Funding Allocation: 100% 610

Project Manager: Steven Delight Status: New Project

Project Summary:

This project will install new mixing equipment at Reservoir 1B to improve chlorine residual and maintain water quality. The project will also include a new/upgraded PG&E service to adequately serve additional power loads generated from the new mixing equipment. Reservoir 1B is a four million gallon (MG) shared facility with 2.35 MG owned by DSRSD and 1.65 MG owned by Zone 7 Water Agency. Per Basic Agreement for Construction and Joint Use of 4MG Dougherty Reservoir and Appurtenant Facilities dated April 19, 1983, DSRSD pays for 50% of operations and maintenance costs.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: N/A

Fund Allocation Basis: Project is required to replace existing water fund asset.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	260,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$260,000

Current Adopted Budget \$0

Increase/(Decrease) \$260,000



CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. 22-W020 2021 Alternative Water Supply Study - Phase 2

Funding Allocation: 75% **610** 25% **620**

Project Manager: Jan Lee Status: New Project

Project Summary:

This project will fund collaborative efforts with regional partners to further explore potential near-term pilot projects that were identified in the 2021 Alternative Water Supply Study: A Framework for a Resilient and Sustainable Water Future. Efforts may include investigating Hopyard 7 and more productive portions of the fringe groundwater basins for supplementing the recycled water program; conceptual planning for a potential regional potable reuse demonstration project; and evaluating a pilot water transfer between EBMUD and Zone 7 utilizing existing DSRSD-EBMUD emergency interties. This project may also fund efforts to identify and pursue grant funding for both near-term pilot projects and long-term regional water resiliency efforts.

CEQA: Statutory Exemption [CEQA Guideline 15262 Feasibility and Planning Studies]

Reference: 2021 Alternative Water Supply Study: A Framework for a Resilient and Sustainable Water Future

Fund Allocation Basis: Based on the ratio of current water demands to projected build-out demands.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	250,000	250,000	1,000,000	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$1,500,000Current Adopted Budget\$0Increase/(Decrease)\$1,500,000

CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. 16-W012 Potable Water Pump Station Standby Generators/Emergency Response

Funding Allocation: 100% 610

Project Manager: Sean O'Reilly Status: Continuing Project

Project Summary:

The 2016 Water Master Plan evaluated the overall potable water system to meet recommended planning and design criteria. Pumping criteria is met under normal operating conditions. However in the event of power outages, pumping criteria will not be met, eventually leading to a loss of fire protection. A power outage can be caused by several factors storms, extreme heat, seismic event, localized issues with the power grid, etc. At this time, there is only one pump station in the water distribution system with a permanent standby generator. The Master Plan recommended adding permanent standby generators at PS 2C, 3A, 20B, 200A, and 300B. It was later confirmed that two permanent standby diesel generators will be installed at Pump Stations 4B and 200A. Permanent standby generators will allow water system operators to move water up to each of the distribution zones, increasing system reliability. The project will also install new receptacles at six (6) critical pump station sites for mobile generators and will upgrade existing uninterruptable power supply (UPS) battery backup systems at eight (8) potable and recycled water reservoirs (Reservoirs 1A, 1B, 3A, 4A, 10A, 10B, R20A, 300B) to provide data for pump station operation. These newer models will offer 24 hours of power supply. Finally, the project will install new 120V receptacles at the parking location of the District's mobile diesel generator fleet near the Regional Wastewater Treatment Facility's Fleet Maintenance Building. These new receptacles will power the mobile diesel generator starter batteries and ensure the generators are ready to deploy when required.

CEQA: Categorical Exemption [CEQA Guideline 15303].

Reference: 2016 Water System Master Plan

Fund Allocation Basis: Project is required to maintain existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
659,095	2,760,905	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$3,420,000Current Adopted Budget\$3,420,000Increase/(Decrease)\$0

CATEGORY: WATER SYSTEM Water Expansion (Fund 620)

CIP No. 17-W003 Reservoir 10A Funding Allocation: 100% 620

Project Manager: Sean O'Reilly Status: Continuing Project

Project Summary:

This project will replace the existing 3.0 million gallon reservoir with a new 4.1 million gallon reservoir. Existing Reservoir 10A was constructed in the 1940s as an open cut reservoir as part of the Camp Parks water system. It currently serves Zone 1 in central Dublin, however, the bottom elevation is about 15 feet above the rest of the zone's hydraulic grade line, creating operational difficulties. The 2016 Water System Master Plan identified a storage deficiency of 1.1 million gallons within Zone 1. The master plan reviewed potential sites to construct a new tank to fill the deficiency. The master plan recommended that the most economical course of action to mitigate the storage deficiency would be to demolish the existing reservoir and replace it with a larger reservoir that is at the correct elevation. This will gain additional storage, set the tank at the correct elevation, eliminate operational difficulties, and replace a 70 year old asset.

CEQA: CEQA Mitigated Negative Declaration/EIR

Reference: 2016 Water System Master Plan

Fund Allocation Basis: Project is required to provide water storage capacity for future development.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
628,725	845,000	8,076,225	9,550,000	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$19,099,950

Current Adopted Budget \$19,099,950

Increase/(Decrease) \$0



CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. 18-W003 Reservoir 2 Recoating

Funding Allocation: 100% 610

Project Manager: Jose Oropeza Status: Continuing Project

Project Summary:

This project will recoat the exterior and interior of Reservoir 2, which was constructed in 1964. The reservoir was cleaned and inspected in 2016. The inspection report indicated that there are multiple coating blisters on the interior surfaces and areas of corrosion on the roof. The interior and exterior coatings are original. The project will also recoat all tank and piping appurtenances including the roof hatch and vents, interior and exterior ladders, manways, inlet, outlet, and overflow pipes. A new cathodic protection system will also be installed to replace the original system.

CEQA: Categorical Exemption [CEQA Guideline 15301].

Reference: 2016 Department of Health Inspection Report

Fund Allocation Basis: Project is required to maintain existing water fund assets.

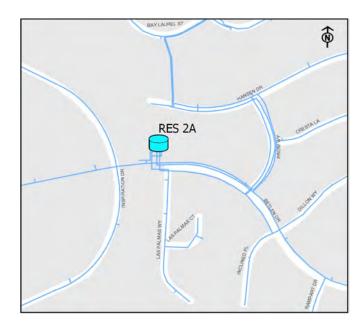
10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
244,170	1,085,000	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$1,329,170

Current Adopted Budget \$1,193,500

Increase/(Decrease) \$135,670



CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. 18-W021 Recycled Water Fire Hydrant Upgrades

Funding Allocation: 100% 610

Project Manager: Rudy Portugal Status: Continuing Project

Project Summary:

This project will replace 12 recycled water fire hydrants in Eastern Dublin, Western Dublin, and Dougherty Valley from drybarrel hydrants to wet-barrel hydrants. Without frequent maintenance, the current dry-barrel hydrant valves seize up and require costly repair. The new wet-barrel hydrant will include a break-off check valve assembly so that if it is hit and broken off, the check valve shuts, preventing the loss of water, water pressure, and a recycled water spill.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: Field Operations request

Fund Allocation Basis: Project is required to replace existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
175,000	50,000	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$225,000
Current Adopted Budget \$175,000
Increase/(Decrease) \$50,000



CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. 12-W016 Reservoir 1B Recoating

Funding Allocation: 100% 610

Project Manager: Steven Delight Status: Continuing Project

Project Summary:

This project will recoat the exterior and interior of Reservoir 1B, which was constructed in 1961. The reservoir was cleaned and inspected in 2016. The inspection report indicated that there are multiple coating blisters on the interior surfaces and areas of corrosion on the roof. The interior and exterior coatings are original. The project will also recoat all tank and piping appurtenances including the roof hatch and vents, interior and exterior ladders, manways, inlet, outlet, and overflow pipes. A new cathodic protection system will also be installed to replace the original system for all reservoirs. Reservoir 1B is a four million gallon (MG) shared facility with 2.35 MG owned by DSRSD and 1.65 MG owned by Zone 7. Per Basic Agreement for Construction and Joint Use of 4MG Dougherty Reservoir and Appurtenant Facilities dated April 19, 1983, DSRSD pays for 50% of operations and maintenance costs.

CEQA: Categorical Exemption [CEQA Guideline 15301].

Reference: 2016 Dept. of Health Services inspection report; video testing report.

Fund Allocation Basis: Project is required to maintain existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future	
1,475,000	150,000	0	0	0	0	0	0	0	0	0	0	

Total Estimated Project Cost \$1,625,000

Current Adopted Budget \$1,625,000

Increase/(Decrease) \$0



CATEGORY: WATER SYSTEM Water Expansion (Fund 620)

CIP No. 14-W008 Reservoir 20B Funding Allocation: 100% 620

Project Manager: Sukhpreet Mann Status: Continuing Project

Project Summary:

Reservoir 20B will provide potable water storage capacity for eastern Dublin and, in combination with existing Pump Station 300B, will provide potable water to Dougherty Valley. The 1.3 million gallon potable water reservoir will be constructed in eastern Dublin. Depending on location of the reservoir, up to 8,700 linear feet of 12-inch Zone 2 pipeline will be needed to integrate the reservoir into the water system, and property acquisition may be required. Project implementation will be dependent on future development growth in service areas.

CEQA: CEQA Initial Study/Mitigated Negative Declaration

Reference: 2016 Water Master Plan Update

Fund Allocation Basis: Project in support of future water customers.

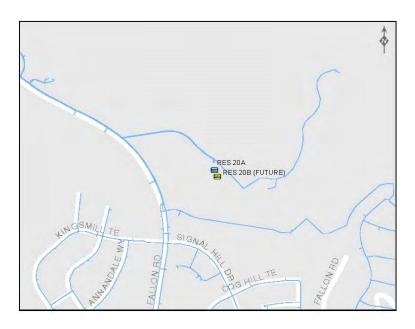
10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
445,731	505,000	4,132,000	2,322,269	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$7,405,000

Current Adopted Budget \$7,150,000

Increase/(Decrease) \$255,000



CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. 16-W017 Water Lines Replacement - Wineberry and Canterbury Area

Funding Allocation: 100% 610

Project Manager: Jose Oropeza Status: Continuing Project

Project Summary:

This project will replace approximately 4,400 feet of 8-inch asbestos concrete pipe (ACP) potable water lines, services, and appurtenances on Wineberry Way, Cypress Court, Locust Place - South and North, and Mulberry Place. This area has a history of leaks and water service repairs. The project will also replace approximately 6,500 feet of existing 4-inch, 6-inch and 8-inch asbestos cement pipe (ACP) potable water lines in Canterbury Lane from Bedford Way to Flanders Way, Cardigan Street, Mayan Court, Flanders Way, and Cardigan Court, Canterbury Lane from Flanders Way to Bedford Way, Bedford Way from Canterbury Lane to Alene Street, Hastings Way, Sutton Lane, Jasmine Court, and Canterbury Court, along with valves, hydrants, and services. The lines were installed in 1961. Staff reviewed the pipe repair history, corrosion information and the acoustic evaluation and have concluded that they are near the end of their useful lives and therefore should be replaced.

CEQA: Categorical Exemption [CEQA Guideline 15302]

Reference: Maintenance service history and Asset Management Replacement Model

Fund Allocation Basis: Project is required to replace existing water fund assets.

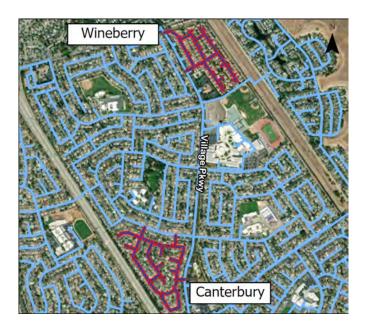
10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
332,291	811,162	5,780,400	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$6,923,853

Current Adopted Budget \$4,605,970

Increase/(Decrease) \$2,317,883



CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. 17-A006 Field Operations Pavement Rehabilitation

Funding Allocation: 100% 610

Project Manager: Rudy Portugal Status: Continuing Project

Project Summary:

This project has evaluated the existing paved access roads at District facilities excluding the Regional Wastewater Treatment Facility. The various access roads will be scheduled for repair, maintenance, or reconstruction based on the evaluation report. The roads we ranked by condition (fair, poor, very poor). Fair condition roads had minor cracking due to roots, lack of proper edging, poor drainage, and expansive soils. Poor condition roads were similar to fair condition roads but were more severe and noted by existing visual damage. Very poor condition roads had complex subsurface and geologic conditions that need in-depth study for recommended design and construction.

CEQA: Categorical Exemption [CEQA Guideline 15301].

Reference: Pavement Investigation Report, Pavement Rehabilitation Project Phase 1, December 12, 2016,

Construction Testing Services

Fund Allocation Basis: Project is required to maintain exsiting water assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
20,370	0	324,630	250,000	200,000	40,000	200,000	200,000	0	0	0	0

Total Estimated Project Cost \$1,235,000

Current Adopted Budget \$1,235,000

Increase/(Decrease) \$0



CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. 18-W004 Pump Station 3A MCC Improvements

Funding Allocation: 100% 610

Project Manager: Sukhpreet Mann Status: Continuing Project

Project Summary:

The existing motor control center (MCC) at potable water Pump Station 3A (PS 3A) is in a small underground vault along with the station programmable logic controller (PLC). The MCC and is over 30 years old and replacement parts are are no longer readily available. The objective of the PS 3A MCC Improvements project is to install a new MCC, PLC and above ground portable generator connection to more quickly provide back-up power in the event of a Pacific Gas and Electric system outage. The remaining pump station equipment will remain inside the vault.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: None.

Fund Allocation Basis: Project is required to replace existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
118,000	575,000	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$693,000Current Adopted Budget\$268,050Increase/(Decrease)\$424,950



CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. 20-W023 Camp Parks Water Main - 5th Street, Adams to Davis Street

Funding Allocation: 100% 610

Project Manager: Ryan Pendergraft Status: New Project

Project Summary:

This project will replace approximately 1,100 feet of 8-inch potable water main, including services and valves. The existing water main is located in the front yard of homes along 5th Street. The new pipeline will be installed in accordance with District Standards and will be located within 5th Street. The developer working on the "Boulevard" project will complete the work, and the District will issue a reimbursement for a portion of the work.

CEQA: TBD

Reference: Water Replacement Asset Management Model

Fund Allocation Basis: Project is required to maintain existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	550,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$550,000
Current Adopted Budget \$550,000
Increase/(Decrease) \$0



CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. 20-W025 Pump Station 1A Rehabilitation

Funding Allocation: 100% 610

Project Manager: Jose Oropeza Status: Continuing Project

Project Summary:

This project will upgrade or replace Pump Station 1A. Pump Station 1A pumps water from the Zone 7 water system to the District's Zone 1 distribution system on the west side. The suction and discharge manifolds cause high head loss, inefficiency, and pump cavitation. The project will also study upgrading or replacing the pump station at the existing location or possibly relocating it to the Turnout 1 site. Fluoride storage and injection equipment housed at the facility will also be upgraded.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: Staff recommendation.

Fund Allocation Basis: Project is required to replace existing water assets.

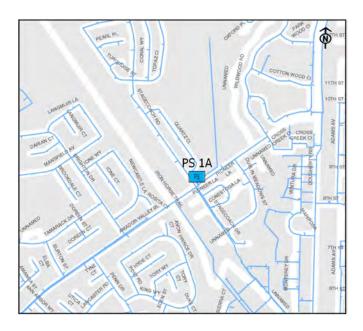
10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
155,000	330,000	3,220,000	2,965,000	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$6,670,000

Current Adopted Budget \$2,860,000

Increase/(Decrease) \$3,810,000



CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. 20-W024 Camp Parks Water Main - 12th Street, Mitchell Drive, Evans Avenue

Funding Allocation: 100% 610

Project Manager: Rudy Portugal Status: Continuing Project

Project Summary:

This project will replace 4,650 linear feet of 6-inch and 8-inch cast iron potable water lines with new 8-inch and 12-inch PVC water lines in 12th Street, Mitchell Drive, and Evans Avenue. The project will also replace water services, fire service connections, and fire hydrants. These water lines, installed in the 1940's, are the oldest pipes within the District's service area, have a history of leaks, and are the source of discolored water complaints due to corrosion of the cast iron. This project will be coordinated with Camp Parks development.

CEQA: Statutory Exemption [CEQA Guideline 15262]

Reference: Camp Parks Privatization Study, WBA, July 1998; Asset Management Program

Fund Allocation Basis: Project is required to replace or rehabilitate existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
370,000	2,328,000	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$2,698,000Current Adopted Budget\$1,479,000Increase/(Decrease)\$1,219,000

CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. 20-W017 Water System Master Plan and Operations Plan Update

Funding Allocation: 80% 610 20% 620

Project Manager: Irene Suroso Status: New Project

Project Summary:

This project will update the District's 2016 Water System Master Plan. The master plan, which is typically updated at a five-year interval, outlines the water system required to serve our customers from current conditions through future build-out conditions ensuring the water system operation is reliable as systems expand. The plan will address the America's Water Infrastructure Act of 2018 (AWIA) Risk and Resilience Assessment report and address Risk and Resilience Management Strategies for the District.

CEQA: Statutory Exemption [CEQA Guideline 15262 Feasibility and Planning Studies]

Reference: 2016 Water System Master Plan

Fund Allocation Basis: Based on the ratio of current water demands to projected buildout demands.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	500,000	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$500,000Current Adopted Budget\$500,000Increase/(Decrease)\$0

CATEGORY: WATER SYSTEM Water Expansion (Fund 620)

CIP No. 20-W015 Turnout 6 Funding Allocation: 100% 620

Project Manager: Jason Ching Status: Continuing Project

Project Summary:

This project will provide water supply for development in eastern Dublin. A turnout from Zone 7 south of I-580 at Pimlico Drive with a capacity of 6000 gpm (8.6 mgd) will be installed. This project will include 2300 feet of 20-inch main from the turnout to Dublin Boulevard with 200 feet of trenchless pipeline to cross under I-580. This turnout will include chemical feed facilities and real estate for a potential future pump station. This project is required to meet future demands and will add redundancy to improve reliability of the distribution system. The new turnout is served by Zone 7 Water Agency's Cross Valley Pipeline. Work will also include minor improvements existing TO5, including the installation of a new PRV in the TO5 vault for better flow control.

CEQA: City of Dublin, Eastern Dublin Specific Plan and General Plan Amendment Evironmental Impact Repo

Reference: 2016 Water Master Plan Update

Fund Allocation Basis: Project is required to support future water customers.

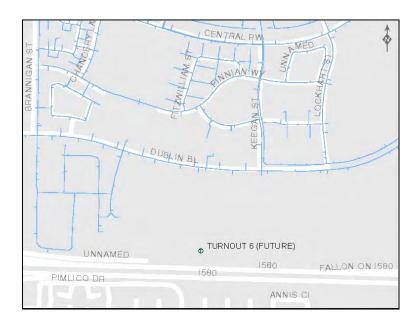
10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
561,794	7,188,206	1,728,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$9,478,000

Current Adopted Budget \$3,800,000

Increase/(Decrease) \$5,678,000



CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. 00-W011 Water System Replacement and Rehabilitation PROGRAM

Funding Allocation: 100% 610

Project Manager: Steven Delight Status: Continuing Program

Project Summary:

This program is an element of the District's Asset Management Program and will fund projects to upgrade, replace and improve water system facilities to ensure the District provides uninterrupted water supply service. This program provides for the renewal or replacement of equipment on an as-needed basis or the upgrade of equipment as it becomes obsolete. This program may also be used to investigate issues that lead to the identification of projects that require the creation of a specific CIP project.

CEQA: To be determined based on individual projects funded by program.

Reference: District internal inspections and Asset Management Replacement Model **Fund Allocation Basis:** Program required to replace or rehabilitate existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Pri	ior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
	0	300,000	300,000	950,000	1,500,000	2,000,000	3,500,000	5,000,000	6,500,000	8,000,000	9,000,000	40,000,000

Total Estimated Project Cost\$77,050,000Current Adopted Budget\$0Increase/(Decrease)\$77,050,000

CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. T22-03 Water Line Replacements - Camp Parks North of 8th Street

Funding Allocation: 100% 610

Project Manager: TBD Status: Future Project

Project Summary:

This project will replace approximately 6,100 linear feet of 6 and 8-inch potable water mains with 8-inch water mains within Camp Parks north of 8th Street. The project includes new water and fire service lines, as well as hydrants and small pipelines to hydrants and buildings. The streets included in this project are: Cromwell, Adams, Davis, 10th Street. The pipelines were installed in the 1950's and identified in the District's asset replacement model as pipelines that are in need of replacement. The pipelines in this area also have reduced flow rates due to interior pipe deterioration, which matches the predictions from the asset replacement model. This project will be coordinated with Camp Parks development.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: Water System Asset Replacement Model

Fund Allocation Basis: Project is required to replace existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	0	0	405,000	4,595,000	0	0	0	0	0

Total Estimated Project Cost \$5,000,000

Current Adopted Budget \$0

Increase/(Decrease) \$5,000,000



CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. T22-04 Water Line Replacement - Camp Parks South of 8th Street

Funding Allocation: 100% 610

Project Manager: TBD Status: Future Project

Project Summary:

This project will replace approximately 9,200 linear feet of 6, 8 and 12 inch potable water mains with 8 and 12 inch water mains within Camp Parks south of 8th Street. The project includes new water and fire service lines, as well as hydrants and small pipelines to hydrants and buildings. The streets included in this project are: Lorring, Monroe, James, Davis, Evans, Fernandez, Goodfellow, Hutchins, Keppler and 6th Street. The pipelines were installed in the 1950's and identified in the District's asset replacement model as pipelines that are in need of replacement. The pipelines in this area also have reduced flow rates due to interior pipe deterioration, which matches the predictions from the asset replacement model. This project will be coordinated with Camp Parks development.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: Water System Asset Replacement Model

Fund Allocation Basis: Project is required to replace existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	510,000	5,770,000	0	0	0	0	0	0	0

Total Estimated Project Cost \$6,280,000

Current Adopted Budget \$0

Increase/(Decrease) \$6,280,000



CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. T22-05 Reservoir 1A Chloramination System Upgrade

Funding Allocation: 100% 610

Project Manager: Sean O'Reilly Status: Future Project

Project Summary:

This project will upgrade the potable water reservoir mixer and chloramination system controls at Reservoir 1A to be consistent with the controls at Reservoir 3B.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: N/A

Fund Allocation Basis: Project is required to replace existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	100,000	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$100,000

Current Adopted Budget \$0

Increase/(Decrease) \$100,000



CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. T22-19 Field Operations and District Facilities Energy Plan

Funding Allocation: 95% **610** 5% **210**

Project Manager: TBD Status: Future Project

Project Summary:

The District's 2021- 2026 Strategic Plan includes a goal to develop a long-term strategy ensure greater energy efficiency and reliability for the district. This project will review the energy usage of the District's water distribution pump stations, local collection system lift stations, and Field Operations and District Office facilities and identify opportunities to increase energy efficiency and offset energy costs through solar or wind power installations.

CEQA: Not a project under CEQA [CEQA Guideline 15378].

Reference: N/A

Fund Allocation Basis: Ratio of water system and collection system facilities (vertical assets).

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
(0	0	650,000	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$650,000 DSRSD Net Cost: \$
Current Adopted Budget \$0 Other Funding:

Increase/(Decrease) \$650,000

CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. 16-A016 District Facilities Security Project - Phase 2

Funding Allocation: 90% **610** 10% **210**

Project Manager: TBD Status: Future Project

Project Summary:

This project will 1) review past recommendations for physical security for the potable and recycled water facilities and the sewer lift stations, 2) inventory which recommendations have been implemented, either installed over the last few years or installed as part of the SCADA project (09-6101) and, 3) develop a plan and cost estimate for remaining required improvements. The project cost will be revised in future years to include the cost of construction once the required improvements are defined. The project will incorporate the District's America's Water Infrastructure Act of 2018 (AWIA) Risk and Resilience Assessment recommendations.

CEQA: To be determined.

Reference: Physical Security Risk Assessment, Pinkerton Consulting, April 2004

America's Water Infrastructure Act (AWIA) Risk and Resilience Assessment Certification, December

2020

Fund Allocation Basis: Based on number of facilities associated with each fund.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	150,000	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$150,000Current Adopted Budget\$50,000Increase/(Decrease)\$100,000

CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. T16-28 Water Lines Replacement - Tamarack Drive - Village Pkwy to Firethorn Way

Funding Allocation: 100% 610

Project Manager: Sukhpreet Mann Status: Future Project

Project Summary:

This project will replace the existing 2300 feet of 8-inch and 10-inch asbestos cement pipe (ACP) potable water lines in Tamarack Drive from Village Parkway to Firethorn Way, along with valves, hydrants, and services. The lines were installed in 1961. Staff reviewed the pipe repair history, corrosion information and the acoustic evaluation and have concluded that they are near the end of their useful lives and therefore should be replaced.

CEQA: Statutory Exemption [CEQA Guideline 15282]

Reference: Asset Management Program

Fund Allocation Basis: Project is required to replace or rehabilitate existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	0	0	205,000	1,355,000	0	0	0	0	0

Total Estimated Project Cost \$1,560,000

Current Adopted Budget \$0

Increase/(Decrease) \$1,560,000



CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. T16-31 Water Line Replacement - Ironwood Drive

Funding Allocation: 100% 610

Project Manager: TBD Status: Future Project

Project Summary:

This project will replace approximately 2800 feet of existing 4-inch, 6-inch and 8-inch asbestos cement pipe (ACP) potable water lines in Ironwood Drive, Irving Way, Honey Court, and Ironwood Court, along with valves, hydrants, and services. The lines were installed in 1960. Staff reviewed the pipe repair history, corrosion information and the acoustic evaluation and have concluded that they are near the end of their useful lives and therefore should be replaced.

CEQA: Statutory Exemption [CEQA Guideline 15282]

Reference: Asset Management Replacement Model

Fund Allocation Basis: Project is required to replace or rehabilitate existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	0	0	0	0	1,830,000	0	0	0	0

Total Estimated Project Cost \$1,830,000

Current Adopted Budget \$0

Increase/(Decrease) \$1,830,000



CATEGORY: WATER SYSTEM Water Expansion (Fund 620)

CIP No. 08-6202 Pump Station 20A Improvements

Funding Allocation: 100% 620

Project Manager: TBD Status: Future Project

Project Summary:

This project will add an additional pump to Pump Station 20A. The pump station was constructed with provisions for the addition of a fourth pump that matches the existing pumps. Pump Station 20B was sized assuming that this additional pump would be installed. The additional pump is needed to meet buildout pumping capacity in Pressure Zone 2 in eastern Dublin as identified in the 2016 Water Master Plan Update. This project includes modifications to the motor control center and controls required to accommodate the fourth pump.

CEQA: City of Dublin, Eastern Dublin Specific Plan and General Plan Amendment Evironmental Impact Repo

Reference: 2005 Basis of Design Report for Pump Station 20B; Eastern Dublin Specific Plan; 2016 Water Master

Plan Update.

Fund Allocation Basis: Project in support of future water customers.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future	Ì
0	0	0	0	0	0	470,000	0	0	0	0	0	l

Total Estimated Project Cost \$470,000

Current Adopted Budget \$470,000

Increase/(Decrease) \$0



CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. 00-W002 Long-Term Water Resiliency PROGRAM

Funding Allocation: 75% **610** 25% **620**

Project Manager: Judy Zavadil Status: Future Program

Project Summary:

This program will develop long-term projects to meet the objectives of the Water Resiliency Policy adopted by the Board of Directors on April 20, 2021. The program will focus on building water resiliency by working collaboratively with regional partners to implement a diverse portfolio of supply, storage and conveyance projects. The program may include a potable reuse project; participation in regional storage; desalination, and intertie projects; and/or supplemental groundwater projects to expand the recycled water program.

CEQA: Environmental Impact Report

Reference: 2021 Alternative Water Supply Study: A Framework for a Resilient and Sustainable Water Future;

2016 Water Capacity Reserve Fee Study

Fund Allocation Basis: Based on the ratio of current water demands to projected build-out demands at the time of

program inception

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	0	0	500,000	1,000,000	1,500,000	2,500,000	2,500,000	12,500,000	19,500,000

Total Estimated Project Cost\$40,000,000Current Adopted Budget\$40,000,000Increase/(Decrease)\$0

CATEGORY: WATER SYSTEM Water Replacement (Fund 610)

CIP No. T16-67 Reservoir Recoating PROGRAM

Funding Allocation: 100% 610

Project Manager: Status: Future Program

Project Summary:

This project will recoat the interiors and paint the exteriors of potable and recycled reservoirs. The recoating and painting will provide corrosion control, extend the reservoir useful life and maintain facility aesthetics. There are four reservoirs, 3A (FY 2025) 200A (FY 2030), 20A (FY 2031), 30A (FY 2031), that will require recoating from FY 2026 through FY 2031. Actual timing may be adjusted based on interior dive inspections that are completed once every five years. The next scheduled inspection will take place in 2021.

CEQA: Categorical Exemption [CEQA Guideline 15302]

Reference: Asset Management Program

Fund Allocation Basis: Project is required to replace or rehabilitate existing water fund assets.

10-Year Cash Flow and Estimated Project Cost:

	Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
ſ	0	0	0	0	620,000	0	0	0	0	1,950,000	2,800,000	9,370,000

Total Estimated Project Cost \$14,740,000

Current Adopted Budget \$0

Increase/(Decrease) \$14,740,000



CIP 10-YEAR PLAN FYEs 2022 through 2031

* Listed according to project timing from earliest to latest

CATEGORY: WASTEWATER COLLECTION

CIP No.	Project Name	Page
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21-S008	Lift Station 2 Upgrades	99
20-S013	East Dublin 36" Trunk Sewer Rehabilitation	100
22-S008	Sewer Collection System Evaluation and Spot Repair	101
20-S028	Dublin Boulevard Extension Sewer Facilities	102
14-S001	Camp Parks Sewer Rehabilitation Project - Goodfellow Ave North of 8th Street	103
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00-S020	Wastewater Collection System Replacement and Rehabilitation PROGRAM	105
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CATEGORY: WASTEWATER COLLECTION

Local Wastewater Replacement (Fund 210)

CIP No. 21-S008 Lift Station 2 Upgrades

Funding Allocation: 100% 210

Project Manager: Kevin Randeni Status: Continuing Project

Project Summary:

Lift Station 2 located at Croak Road and Terracina Drive in eastern Dublin does not have a standby generator and is prone to overflows in the event of a power outage. This project will add safeguards to Lift Station 2 to prevent overflow of the wetwell in the event that there is a power outage during peak flow conditions. The project will add VFDs or soft starters to the pumps to allow them to be started at a reduced voltage, which allows staff to use a small generator that can be deployed with a single person rather than a trailer mounted generator to start the pumps, saving response time in the event of a power outage. Additionally, the project will add a tee on the force main to allow staff to drain the wetwell with a portable trash pump, which would be used in the event that the pumps have failed.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: Staff recommendation.

Fund Allocation Basis:

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
22,100	64,500	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$86,600Current Adopted Budget\$83,000Increase/(Decrease)\$3,600

CATEGORY: WASTEWATER COLLECTION

Local Wastewater Replacement (Fund 210)

CIP No. 20-S013 East Dublin 36" Trunk Sewer Rehabilitation

Funding Allocation: 100% 210

Project Manager: Rudy Portugal Status: Continuing Project

Project Summary:

This project will rehabilitate approximately 670 feet of an existing 36-inch reinforced concrete pipe (RCP) of the East Dublin PRFTA trunk. The pipe was installed in 1960 and has deteriorated with some corrosion visible and significant spalling. The first pipe reach is in an easement that begins just west of Johnson Drive (about 500 feet north of Owens Drive) and continues west almost to Owens Drive. The second pipe section is in an easement just south of I-580 between Owens Court and the Pleasanton BART parking lot (behind Dahlin Group Building). The section between was lined in 1993 and is in fair condition at this time.

CEQA: Statutory Exemption [CEQA Guideline 15282]

Reference: Results of National Plant Services field investigation (CCTV, sonar, laser) of large diameter sewers

Fund Allocation Basis: Project is required to replace or rehabilitate existing local wastewater fund assets.

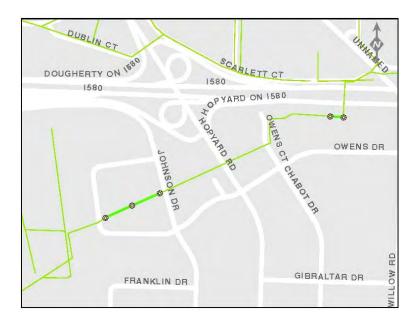
10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
196,000	1,004,000	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$1,200,000

Current Adopted Budget \$737,600

Increase/(Decrease) \$462,400



CATEGORY: WASTEWATER COLLECTION

Local Wastewater Replacement (Fund 210)

CIP No. 22-S008 Sewer Collection System Evaluation and Spot Repair

Funding Allocation: 100% 210

Project Manager: Jose Oropeza Status: New Project

Project Summary:

As part of the Asset Management Program for the collections system, sewer lines are periodically inspected and given a condition rating in accordance with the Pipeline Assessment Certification Program (PACP). The sewer lines with the most severe PACP structural condition ratings are identified as needing futher review to determine neccesary repairs. Data collected over the past several years indicate that there are 102 pipe segments that need further investigation to determine if spot repairs are necessary. This project will evaluate the pipe segments, and if a repair is warranted, determine the most cost-effective repair using standard technical specifications that have been developed as part of a previous collection system spot repair project. A variety of sewer line repair methods may be used, such as CIPP or open trenching. The current budget assumes that fifty pipe segements will require basic spot repairs. If certain segements require more complicated repair, additional construction funding may be required.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: N/A

Fund Allocation Basis: Project is required to replace or rehabilitate existing local wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	50,000	250,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$300,000Current Adopted Budget\$0Increase/(Decrease)\$300,000

CATEGORY: WASTEWATER COLLECTION

Local Wastewater Expansion (Fund 220)

CIP No. 20-S028 Dublin Boulevard Extension Sewer Facilities

Funding Allocation: 100% 220

Project Manager: Ryan Pendergraft Status: Continuing Project

Project Summary:

The Alameda County Transportation Commission, Alameda County, and the cities of Dublin and Livermore have partnered on the Dublin Boulevard Extension Project (Extension Project), a 1.5-mile extension of Dublin Boulevard from Fallon Road in Dublin to North Canyons Parkway at Doolan Road in Livermore. To accommodate future development based on the City of Dublin's General Plan, this project will construct 2800 feet of 15 inch wastewater collection pipeline and associated appurtenances in Dublin Boulevard from Fallon Road to Croak Road in coordination with the Extension Project.

CEQA: Final EIR – Dublin Blvd. – North Canyons Parkway Extension Project (City of Dublin) – August 2019

Reference: DSRSD 2019 Collection System Master Plan; DSRSD 2018 Local Wastewater Capacity Reserve Fee

Study

Fund Allocation Basis:

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future	
0	0	50,000	655,000	655,000	0	0	0	0	0	0	0	

Total Estimated Project Cost\$1,360,000Current Adopted Budget\$1,360,000Increase/(Decrease)\$0

CATEGORY: WASTEWATER COLLECTION

Local Wastewater Replacement (Fund 210)

CIP No. 14-S001 Camp Parks Sewer Rehabilitation Project - Goodfellow Ave North of 8th Street

Funding Allocation: 100% 210

Project Manager: Steven Delight Status: New Project

Project Summary:

This project will rehabilitate approximately 1,500 feet of 8-inch of vitrified clay pipe (VCP) sewer on Goodfellow Avenue north of 8th Street. It will include fixing the siphon installed by the Federal Corrections Institute (FCI). This pipe has several cracks and fractures leading to high inflow and infiltration rates. Project cost will be dependent on the method of rehabilitation which may be slip line, pipeburst or replacement.

CEQA: Statutory Exemption [CEQA Guideline 15282]

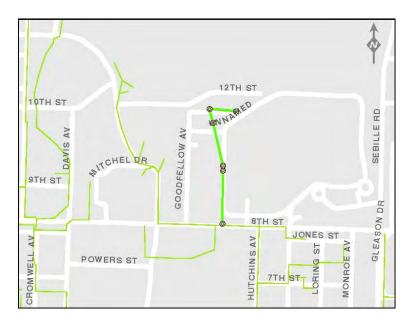
Reference: Camp Parks Privatization Study, WBA, July 1998

Fund Allocation Basis: Project is required to replace or rehabilitate existing local wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Ī	Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
	22,090	100,000	690,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$812,090 Current Adopted Budget \$411,305 Increase/(Decrease) \$400,785



CATEGORY: WASTEWATER COLLECTION

Local Wastewater Expansion (Fund 220)

CIP No. 20-S014 Dublin Boulevard - Amador Plaza Road to Village Parkway

Funding Allocation: 100% 220

Project Manager: Rudy Portugal Status: New Project

Project Summary:

This project will upsize 731 feet of 18-inch gravity main to 21-inch gravity main in Dublin Boulevard between Amador Plaza Road and Village Parkway. The recently completed 2019 Collection System Master Plan included an evaluation of the collection system under future flow conditions. Based on the evaluation, improvements were recommended to eliminate future system deficiencies and to meet projected flows for future downtown development. This project will begin with flow monitoring to confirm the current flows in order to confirm estimates from the 2019 Local Collection System Master Plan are correct.

CEQA: CEQA Initial Study/Mitigated Negative Declaration

Reference: 2019 Local Collection System Master Plan

Fund Allocation Basis: Project is required to convey future customer wastewater flows

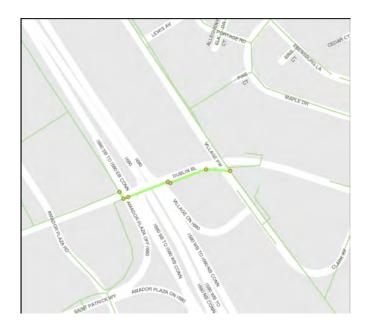
10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	50,000	175,000	645,000	0	0	0	0	0	0	0

Total Estimated Project Cost \$870,000

Current Adopted Budget \$870,000

Increase/(Decrease) \$0



CATEGORY: WASTEWATER COLLECTION

Local Wastewater Replacement (Fund 210)

CIP No. 00-S020 Wastewater Collection System Replacement and Rehabilitation PROGRAM

Funding Allocation: 100% 210

Project Manager: Steven Delight Status: Continuing Program

Project Summary:

This project will insure that uninterrupted sewer collection service is provided and will include, but are not limited to, repairing leaking pipes, pipe joints and manholes to reduce the amount of infiltration and inflow rates, which will reduce operating costs at the wastewater treatment plant and extend the LAVWMA wet weather capacity. Sewer lines and manholes will be repaired or replaced as identified by District staff annually.

CEQA: To be determined based on each project funded by the program.

Reference: Asset Management Program.

Fund Allocation Basis: Program is required to replace or rehabilitate existing local wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	150,000	150,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	250,000	2,500,000

Total Estimated Project Cost\$4,800,000Current Adopted Budget\$0Increase/(Decrease)\$4,800,000

CATEGORY: WASTEWATER COLLECTION

Local Wastewater Expansion (Fund 220)

CIP No. T20-04 Dublin Boulevard - Clark Avenue to Sierra Court

Funding Allocation: 100% 220

Project Manager: TBD Status: Future Project

Project Summary:

This project will upsize 1,048 feet of 10-inch gravity main to 12-inch gravity main in Dublin Boulevard between Clark Avenue and Sierra Court. The siphons proximate to these gravity mains are not included as part of the project. This project was recommended in the 2019 Wastewater Collection System Master Plan after extensive hydraulic evaluation.

CEQA: Categorical Exemption [CEQA Guideline 15302].

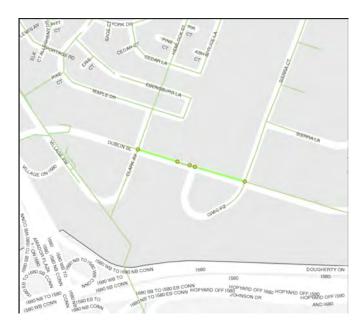
Reference: 2019 Local Wastewater Collection System Master Plan

Fund Allocation Basis: Project is required to convey future customer wastewater flows

10-Year Cash Flow and Estimated Project Cost:

	Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
ſ	0	0	0	0	0	175,000	500,000	0	0	0	0	0

Total Estimated Project Cost\$675,000Current Adopted Budget\$0Increase/(Decrease)\$675,000



CATEGORY: WASTEWATER COLLECTION

Local Wastewater Replacement (Fund 210)

CIP No. T20-05 Dublin Court and Dublin Boulevard Sewer Replacement

Funding Allocation: 100% 210

Project Manager: TBD Status: Future Project

Project Summary:

This project will replace approximately 300 feet of 10-inch pipe near the intersection of Dublin Blvd and Dublin Court. The pipeline travels under a drainage canal and has been damaged over time. A small liner was installed as a temporary repair until the segment can be replaced.

CEQA: Categorical Exemption [CEQA Guideline 15302].

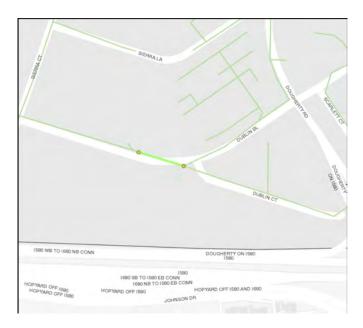
Reference: 2019 Local Wastewater Collection System Master Plan

Fund Allocation Basis: Project is required to replace existing local wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

	Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
ſ	0	0	0	0	0	200,000	550,000	0	0	0	0	0

Total Estimated Project Cost\$750,000Current Adopted Budget\$0Increase/(Decrease)\$750,000



CATEGORY: WASTEWATER COLLECTION

Local Wastewater Expansion (Fund 220)

CIP No. T20-06 Village Parkway - South of Dublin Boulevard

Funding Allocation: 100% 220

Project Manager: TBD Status: Future Project

Project Summary:

This project will upsize 1,262 feet of 36-inch and 39-inch gravity main to 42-inch gravity main in Village Parkway south of Dublin Boulevard. These gravity mains are recently lined but are still recommend for upsizing due to hydraulic deficiency. This project was recommended as part of the 2019 Wastewater Collection System Master Plan.

CEQA: CEQA Initial Study/Mitigated Negative Declaration

Reference: 2019 Local Collection System Master Plan

Fund Allocation Basis: Project is required to convey future customer wastewater flows

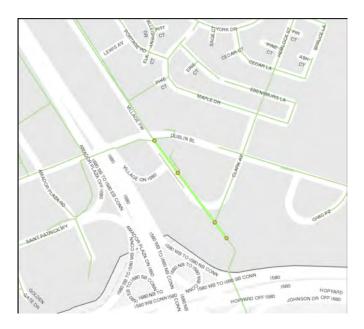
10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	0	0	0	0	0	0	275,000	2,557,000	0

Total Estimated Project Cost \$2,832,000

Current Adopted Budget \$0

Increase/(Decrease) \$2,832,000



CATEGORY: WASTEWATER COLLECTION

Local Wastewater Replacement (Fund 210)

CIP No. T22-20 Large Diameter Sewer Condition Assessment

Funding Allocation: 100% 210

Project Manager: TBD Status: Future Project

Project Summary:

As part of the Asset Management Program, this project will identify approximately 15,000 – 20,000 feet of larger lines that represent the greatest risk if failure were to occur and perform internal analysis using high technology equipment to assess their conditions. Data collected will include profiles, internal pipe corrosion, debris collection, etc. and will be used for improved maintenance management and CIP project identification. A similar condition assessment was completed in 2014.

CEQA: Statutory Exemption [CEQA Guideline 15262 - Feasibility and Planning Studies].

Reference: To be determined.

Fund Allocation Basis:

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	150,000	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$150,000 DSRSD Net Cost: \$
Current Adopted Budget \$0 Other Funding:

Increase/(Decrease) \$150,000

CATEGORY: WASTEWATER COLLECTION

Local Wastewater Replacement (Fund 210)

CIP No. 18-S006 San Ramon Golf Course 24" Trunk Sewer Rehabilitation

Funding Allocation: 100% 210

Project Manager: Jackie Yee Status: Future Project

Project Summary:

This section of existing 24-inch reinforced concrete pipe (RCP) installed in 1961 has deteriorated. Inspection records indicate the segment has lateral cracks and sags. The project will rehabilitate approximately 470 feet of the trunk sewer in the Iron Horse Trail at the San Ramon Valley Golf Course from about 1,500 feet north of Alcosta Blvd, south to about 1,000 feet north of Alcosta Blvd.

CEQA: Statutory Exemption [CEQA Guideline 15282]

Reference: Asset Management Program: results of National Plant Services field investigation (CCTV, sonar,

laser) of large diameter sewers

Fund Allocation Basis: Project is required to replace or rehabilitate existing local wastewater fund assets.

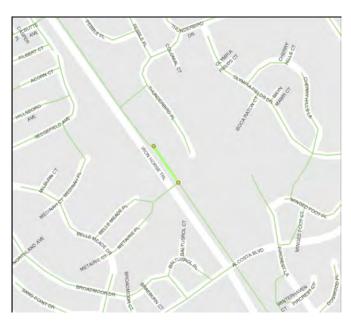
10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future	
0	0	0	557,500	0	0	0	0	0	0	0	0	

Total Estimated Project Cost \$557,500

Current Adopted Budget \$557,500

Increase/(Decrease) \$0



CATEGORY: WASTEWATER COLLECTION

Local Wastewater Replacement (Fund 210)

CIP No. 18-S007 Alcosta Blvd Sewer Replacement

Funding Allocation: 100% 210

Project Manager: TBD Status: Future Project

Project Summary:

The project will replace approximately 1,250 feet of 10-inch of vitrified clay pipe (VCP) sewer located in Alcosta Blvd from approximately at Village Parkway east to the Iron Horse Trail. The sags in the pipe make it impossible to TV to determine its condition and requires cleaning on frequent basis. The project will replace the sewer as needed to prevent potential sanitary sewer overflow (SSO) incidents.

CEQA: Statutory Exemption [CEQA Guideline 15282]

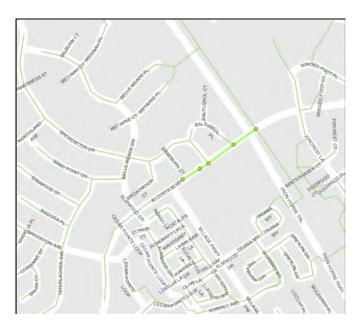
Reference: Asset Management Program

Fund Allocation Basis: Project is required to replace or rehabilitate existing local wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	0	0	63,500	583,775	0	0	0	0	0

Total Estimated Project Cost\$647,275Current Adopted Budget\$480,375Increase/(Decrease)\$166,900



CATEGORY: WASTEWATER COLLECTION

Local Wastewater Replacement (Fund 210)

Funding Allocation: 100% 210

Project Manager: TBD Status: Future Project

Project Summary:

This project will rehabilitate approximately 2,600 feet of 12-inch of vitrified clay pipe (VCP) sewer along Davis and Cromwell Avenues, between 8th and 10th Streets. The existing sewer has several cracks and fractures leading to high inflow and infiltration rates. The project may pipeburst, or slip line, or replace the pipe in its entirety.

CEQA: Statutory Exemption [CEQA Guideline 15282]

Reference: Camp Parks Privatization Study, WBA, July 1998

Fund Allocation Basis: Project is required to replace or rehabilitate existing local wastewater fund assets.

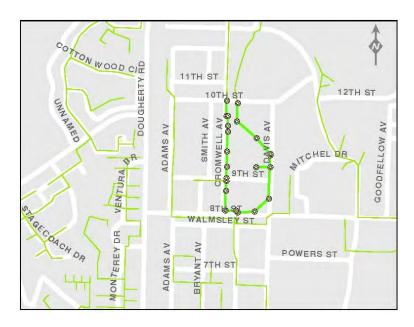
10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	0	0	260,000	1,380,000	0	0	0	0	0

Total Estimated Project Cost \$1,640,000

Current Adopted Budget \$0

Increase/(Decrease) \$1,640,000



CATEGORY: WASTEWATER COLLECTION

Local Wastewater Replacement (Fund 210)

CIP No. 14-S002 Camp Parks Sewer Rehabilitation Project - Adams 8th to 10th Streets

Funding Allocation: 100% 210

Project Manager: TBD Status: Future Project

Project Summary:

This project will rehabilitate approximately 1300 feet of 12-inch of vitrified clay pipe (VCP) sewer along Adams Avenue between 8th and 10th Streets. The existing sewer has several cracks and fractures leading to high inflow and infiltration rates. Project cost will be dependent on the method of rehabilitation which may be slip line, pipeburst or replacement.

CEQA: Statutory Exemption [CEQA Guideline 15282]

Reference: Camp Parks Privatization Study, WBA, July 1998

Fund Allocation Basis: Project is required to replace or rehabilitate existing local wastewater fund assets.

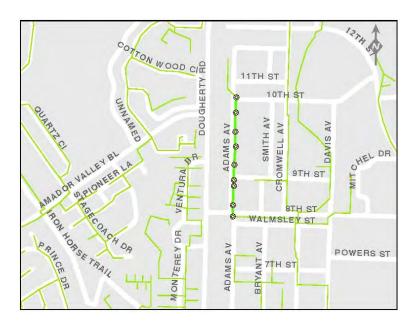
10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
36,063	0	0	0	0	175,000	600,000	0	0	0	0	0

Total Estimated Project Cost \$811,063

Current Adopted Budget \$505,803

Increase/(Decrease) \$305,260



CATEGORY: WASTEWATER COLLECTION

Local Wastewater Replacement (Fund 210)

CIP No. T16-50 Iron Horse Trail Sewer Replacement

Funding Allocation: 100% 210

Project Manager: TBD Status: Future Project

Project Summary:

The project will replace approximately 1650 feet of 8-inch and 10-inch of polyvinyl chloride pipe (PVC) and vitrified clay pipe (VCP) sewer located just north of the Alameda/Contra Costa County line that cross the Iron Horse Trail and the adjacent creek. The project will also add manholes; at this time, the manhole spacing makes TV inspection and cleaning problematic. The sags in the pipe make it impossible to TV to determine its condition and requires cleaning on frequent basis (3-month trouble spot). The project will replace the sewer and additional sewers upstream as needed to prevent the potential of sanitary sewer overflow (SSO) incidents.

CEQA: Statutory Exemption [CEQA Guideline 15282]

Reference: District internal inspections, CMMS data; Asset Management Program

Fund Allocation Basis: Project is required to replace or rehabilitate existing local wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	0	855,000	0	0	0	0	0	0	0

Total Estimated Project Cost \$855,000

Current Adopted Budget \$0

Increase/(Decrease) \$855,000



CATEGORY: WASTEWATER COLLECTION

Local Wastewater Replacement (Fund 210)

CIP No. 08-2101 Donahue Dr./Vomac Rd. Relief Sewer

Funding Allocation: 100% 210

Project Manager: TBD Status: Future Project

Project Summary:

This project will upsize 2,400 feet of 8 inch to 12 inch gravity main starting on Vomac Road, continuing east to Ironwood Drive. There are 3 sub-basins that lead to the Donahue/Vomac area. One or all of these sub-basins are contributing to unusually high infiltration and inflow rate. The 8-inch gravity main in Donohue Drive between Gardella Drive and Hillrose Drive will be blocked to prevent splitting flow from the gravity main in Hillrose Drive to the gravity main in Donohue Drive. This blockage would prevent an extension of the required improvement project further to the southeast, which is located in easement area.

CEQA: Categorical Exemption [CEQA Guideline 15302]

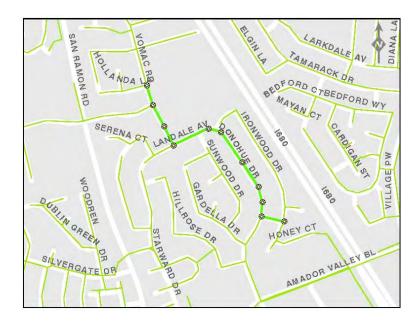
Reference: 2019 Wastewater Collection System Master Plan Update

Fund Allocation Basis: Project is required to replace or rehabilitate existing local wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
71,445	0	0	0	0	0	0	410,000	1,170,000	0	0	0

Total Estimated Project Cost\$1,651,445Current Adopted Budget\$1,481,445Increase/(Decrease)\$170,000



CATEGORY: WASTEWATER COLLECTION

Local Wastewater Expansion (Fund 220)

CIP No. T00-76 Dublin Trunk Relief Sewer

Funding Allocation: 100% 220

Project Manager: TBD Status: Future Project

Project Summary:

The project will construct a relief sewer for the Dublin trunk sewer downstream of the east Dublin trunk sewer connection located within the District's Dedicated Land Disposal site to an existing 48-inch sewer line within the WWTP, near the East Amador Lift Station. The project consists of approximately 2100 feet of a 42-inch parallel pipeline. The 2019 Wastewater Collection System Master Plan Update indicated that the Dublin Trunk sewer surcharges in a 20-year return frequency storm. This project is required to comply with the Regional Water Quality Control Board (RWQCB) design requirements and to reduce infiltration and inflow rate.

CEQA: Initial Study may be required.

Reference: 2019 Wastewater Collection System Master Plan Update.

Fund Allocation Basis: Project is required to convey future customer wastewater flows.

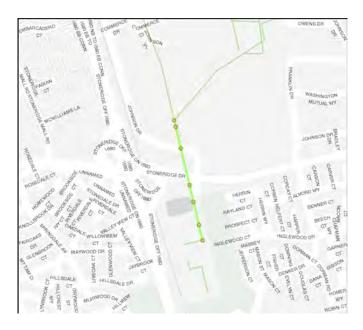
10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	0	0	0	0	0	0	0	0	6,945,000

Total Estimated Project Cost \$6,945,000

Current Adopted Budget \$0

Increase/(Decrease) \$6,945,000



CIP 10-YEAR PLAN FYEs 2022 through 2031

* Listed according to project timing from earliest to latest

CATEGORY: REGIONAL WASTEWATER TREATMENT

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CIP 10-YEAR PLAN FYEs 2022 through 2031

* Listed according to project timing from earliest to latest

CATEGORY: REGIONAL WASTEWATER TREATMENT

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CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 21-P004 Cogeneration Room Cooling

Funding Allocation: 100% 310

Project Manager: Kevin Randeni Status: Continuing Project

Project Summary:

This project will improve the circulation of air within the room that contains the WWTP cogeneration engines. The project will replace the current inlet air handling units, which are undersized and beyond their useful life. This will reduce heat related health and safety risks for staff who perform daily housekeeping and longer maintenance activities in the room and improve the longevity of equipment inside the room. Criteria for room temperature or acceptable rise in temperature from ambient air will be developed during the design phase.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: Staff recommendation.

Fund Allocation Basis: Project is required to replace or rehabilitate existing regional wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
156,000	111,000	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$267,000

Current Adopted Budget \$175,000

Increase/(Decrease) \$92,000

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 21-P009 East Amador Lift Station Rehabilitation

Funding Allocation: 100% 310

Project Manager: Sukhpreet Mann Status: Continuing Project

Project Summary:

The District has operated and maintained the East Amador Lift Station for the City of Pleasanton in accordance with the 1992 Agreement. Staff is concerned that without major improvements to EALS, the pump station is at risk of failure, which could lead to significant disruptions in sewer service for the City. The pumps and their variable frequency drives (VFDs) are at the end of their useful life. The flow meters and pump controllers also need to be upgraded. The dry well structure is in poor condition and the dry well elevator frequently malfunctions. This project will replace the aforementioned equipment. The project will be managed by DSRSD but 100 percent funded by the City of Pleasanton.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: DSRSD/Pleasanton Agreement for Water Disposal Services (1992)

Fund Allocation Basis: The project will be fully reimbursed by the City of Pleasanton.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
150,000	1,350,000	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$1,500,000 DSRSD Net Cost: \$0

Current Adopted Budget \$1,500,000 Other Funding: City of Pleasanton \$1,500,000

Increase/(Decrease) \$0

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 22-P009 WWTP Energy Master Plan

Funding Allocation: 80% **310** 20% **320**

Project Manager: Jason Ching Status: New Project

Project Summary:

The District's 2021- 2026 Strategic Plan includes a goal to develop a long-term strategy ensure greater energy efficiency and reliability for the district. This Plan will develop energy demands and a strategy to meet those demands through self-generation and PG&E power. More specifically, the plan will install additional power monitoring devices to develop energy use baselines for energy intensive processes and equipment; determine normal and standby power needs for current facilities and anticipated plant upgrades and expansion; evaluate potential process or equipment changes to reduce the energy demand of energy intensive processes including the secondary aeration process and the biosolids thickening process; quantify the impact of DERWA energy demands on the District's energy costs; determine the optimal current cogeneration capacity and develop a facility plan for current and future cogeneration; evaluate the potential for solar energy to complement the cogeneration system; and evaluate the potential of current battery technology to reduce peak energy demands.

CEQA: Not project under CEQA.

Reference: 2017 WWTP and Biosolids Master Plan

Black and Veatch Reports dated September 2019 & April 2020

Fund Allocation Basis: Based on ratio of energy used at wastewater treatment plan versus water facilities.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	800,000	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$800,000Current Adopted Budget\$0Increase/(Decrease)\$800,000

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 22-P010 WWTP HVAC Replacements

Funding Allocation: 100% 310

Project Manager: Sukhpreet Mann Status: New Project

Project Summary:

This project would replace the HVAC systems at Buildings A, M and R at the WWTP.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: To be determined.

Fund Allocation Basis: Project is required to replace or rehabilitate existing regional wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	60,000	150,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$210,000Current Adopted Budget\$0Increase/(Decrease)\$210,000

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 22-P011 WWTP Roof Replacements

Funding Allocation: 100% 310

Project Manager: Sukhpreet Mann Status: New Project

Project Summary:

This project would replace the roofs of Buildings B, Q, and R at the WWTP. The roofs at each building are due for replacement based on their age and condition.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: N/A

Fund Allocation Basis: Project is required to replace or rehabilitate existing regional wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	300,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$300,000Current Adopted Budget\$0Increase/(Decrease)\$300,000

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 22-P012 Cogen Catalyst Housings Replacement

Funding Allocation: 100% 310

Project Manager: Shawn Quinlan Status: New Project

Project Summary:

This project will replace existing catalyst systems, located inside the engine room, relocate them outside, and replace existing heat exchangers with combination units that collect heat and house the catalysts. Moving the catalyst housing outside reduces the heat load inside the cogeneration room and improves safety conditions for maintenance work by eliminating the need to stand on a ladder while performing maintenance.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: N/A

Fund Allocation Basis: This project is required to replace an existing regional wastewater fund asset.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	310,000	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$310,000Current Adopted Budget\$0Increase/(Decrease)\$310,000

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 22-P013 WWTP Process Assessment

Funding Allocation: 100% 310

Project Manager: Jason Ching Status: New Project

Project Summary:

This project will support assessment of wastewater treatment plant assets to determine future rehabilitation projects. The project will fund various specialty inspection and consulting services including but not limited to corrosion control and coatings, odor control, structural engineering, and flow monitoring. Examples of assessments include an evaluation of flow and loading from the grit pumps, integrity of channel covers in the commutator room and return activated sludge channel, condition of and back-up to the plant process water system, process pipelines inspection and useful life determination, and efficiency of odor control processes. Funding is only included for assessments. The results of the assessments will inform future projects.

CEQA: Not a project under CEQA [CEQA Guideline 15378].

Reference: N/A

Fund Allocation Basis:

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	100,000	175,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$275,000Current Adopted Budget\$0Increase/(Decrease)\$275,000

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 22-P022 WWTP Administration Building (Building A) Remodel/Renovation

Funding Allocation: 100% 310

Project Manager: Kevin Randeni Status: New Project

Project Summary:

This project proposes to engage design professionals for preliminary planning and design of renovations for the WWTP Administration Building (A). A preliminary design study will commence in calendar year 2022. It is anticipated that construction and permitting costs will be presented following scoping and detailed design.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: N/A

Fund Allocation Basis: Project is required to rehabilitate existing regional wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

- 1	Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
	0	0	100,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$100,000Current Adopted Budget\$0Increase/(Decrease)\$100,000



CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 16-P024 WWTP Fire Alarm System Upgrades

Funding Allocation: 100% 310

Project Manager: Sean O'Reilly Status: Continuing Project

Project Summary:

The wastewater treatment plant currently has four different fire alarm controls panels (FACP) on two separate systems. Two of the FACPs are obsolete and the other two are crude remotes to the primary systems at Building A and Building R. There are separate dialers with two phones lines (primary and backup) for each system. This configuration complicates the maintenance and testing of the systems. This project will integrate the entire system into a single FACP that could be easily networked and expanded as needed. Some of the existing infrastructure (i.e. smoke detectors, strobes, pull stations, etc.) will be utilized to the extent possible which should reduce cost and labor. The upgrade will also include other items such as adding fire alarm notification devices to the first and second floors of Building A, tying in flow switch (at riser) to FACP, panel programming, and fire alarm drawings that will improve staff's ability to maintain and repair the system.

CEQA: Categorical Exemption [CEQA Guideline 15301].

Reference: Staff recommendation.

Fund Allocation Basis: Project is required to replace or rehabilitate existing regional wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
61,030	143,120	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$204,150 Current Adopted Budget \$204,150 Increase/(Decrease) \$0

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Expansion (Fund 320)

CIP No. 16-P028 Biogas Treatment System Improvements

Funding Allocation: 67% **320** 33% **310**

Project Manager: Jason Ching Status: Continuing Project

Project Summary:

This project will evaluate the existing biogas scrubber and make recommendations to improve the existing scrubber or replace it. The biogas scrubber cleans and pressurizes biogas prior to being sent to the cogeneration engines. Clean biogas improves engine efficiency and assists in meeting Bay Area Air Quality Management District regulations at cogeneration. With Digester 4 in service, and once the primaries, and fats, oils and grease (FOG) station are put into operation, additional solids will be collected for digestion, increasing biogas production. Since the existing biogas scrubber is currently working at capacity. Any additional gas will need to be cleaned prior to sending it to cogeneration.

CEQA: Categorical Exemption [CEQA Guideline 15303].

Reference: DSRSD Wastewater Treatment Plant Digester Gas Treatment Master Plan, September 2019, Black

and Veatch

Fund Allocation Basis: Based on 140 scfm current gas flow vs 430 scfm new gas flow after improvements

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
873,767	2,265,000	1,292,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$4,430,767

Current Adopted Budget \$4,030,767

Increase/(Decrease) \$400,000



CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 16-P030 EPS1 and EPS2 Pump Modifications

Funding Allocation: 100% 310

Project Manager: Shawn Quinlan Status: Continuing Project

Project Summary:

This project will modify three effluent pump station #1 (EPS1) pumps and two effluent pump station # 2 (EPS2) pumps to maintain full pumping capacity in wet weather conditions. The effluent pump bushings require modifications to flush out sediment and plastics. Three of the pumps have seized up and had to be pulled out and repaired. This project will modify the bushings of the remaining pumps.

CEQA: Categorical Exemption [CEQA Guideline 15302 and 15301].

Reference: Staff recommendation.

Fund Allocation Basis: Project is required to replace or rehabilitate existing regional wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prio		FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
149	297	0	100,703	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$250,000Current Adopted Budget\$250,000Increase/(Decrease)\$0



CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Expansion (Fund 320)

CIP No. 17-P004 Primary Sedimentation Expansion and Improvements

Funding Allocation: 85% **320** 15% **310**

Project Manager: Jackie Yee Status: Continuing Project

Project Summary:

This project will construct one new primary sedimentation tank and partially demolish and replace one of the existing primary sedimentation tanks at the Regional Wastewater Treatment Facility (RWTF). The project will also add an additional grit tank, replace internal mechanisms in the three remaining primary sedimentation tanks, and replace the motor control center. The primary treatment capacity is undersized for the facility's current average dry weather flow. Insufficient primary treatment capacity overburdens the aeration basins and secondary clarifiers leading to higher energy costs and more difficulties in controlling the secondary effluent water quality. The additional primary sedimentation tank will provide the treatment capacity needed for current and buildout flows.

CEQA: Initial Study/Mitigated Negative Declaration

Reference: 2017 WWTP and Biosolids Master Plan

Fund Allocation Basis: Based on ratio of WWTP flow at which project was estimated to be required to WWTP buildout flow

at the time of project inception.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
15,617,369	3,382,631	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$19,000,000

Current Adopted Budget \$19,000,000

Increase/(Decrease) \$0



CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 18-P010 Biogas Flare Improvements

Funding Allocation: 100% 310

Project Manager: Jason Ching Status: Continuing Project

Project Summary:

This project will replace the Regional Wastewater Treatment Facility's existing biogas flare. Typically, all biogas is used to power the cogeneration engines after the gas is scrubbed. If the gas scrubber is out of service, or if cogeneration is offline, biogas must be vented to prevent over pressurization of the digesters. The flare cleanly burns the biogas under a Bay Area Air Quality Management District (BAAQMD) permit. This project will evaluate and replace the existing flare. Additional permitting may be required through the BAAQMD.

CEQA: Categorical Exemption [CEQA Guideline 15301 and 15302].

Reference: DSRSD Wastewater Treatment Plant Digester Gas Treatment Master Plan, September 2019, Black

and Veatch

Fund Allocation Basis: Project is required to replace or rehabilitate existing regional wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future	l
295,000	340,000	920,000	0	0	0	0	0	0	0	0	0	l

Total Estimated Project Cost\$1,555,000Current Adopted Budget\$1,500,000Increase/(Decrease)\$55,000

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 05-3206 WWTP SCADA Improvements

Funding Allocation: 100% 310

Project Manager: Jason Ching Status: Continuing Project

Project Summary:

This project will upgrade the WWTP Supervisory Control and Data Acquisition (SCADA) communication network, replace and program the programmable logic controllers (PLCS), replace the servers, install a new database repository for historical data, acquire a web portal to view SCADA data over the District's business network, upgrade the alarm notification and reporting software, upgrade the plant's fiber optic communications network andreplace 9 Robicon variable frequency drives. This project will involve complex construction sequencing to allow for parallel SCADA systems during implementation as the plant processes cannot be interrupted. It will also require thorough testing of the PLC programming and communication system to assure reliable plant operation after implementation to the new system. The nine existing VFDs scheduled for replacement are currently functioning; however, Robicon went out of business several years ago and no other company picked up support of their product line. Replacement parts cannot be found and there is no technical support. A Designbuild project delivery method will be utilized for this project.

CEQA: Categorical Exemption [CEQA Guideline 15301].

Reference: SCADA System Master Plan, March 2010

Fund Allocation Basis: Project is required to replace or rehabilitate existing regional wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
634,305	3,030,000	1,000,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$4,664,305 Current Adopted Budget \$2,964,305 Increase/(Decrease) \$1,700,000



CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 18-P002 WWTP Electrical System Master Plan

Funding Allocation: 100% 310

Project Manager: Jason Ching Status: Continuing Project

Project Summary:

The last Electrical Master Plan was completed in 2004. This master plan will review the WWTP electrical system and determine the required improvements to support current electrical demands as well as the future electrical demands of WWTP processes planned in the 2017 WWTP and Biosolids Master Plan. Efforts to prepare for the Master Plan were undertaken in prior years, resulting in expenses to document the existing electrical system, and perform an arcflash study.

CEQA: Not a project under CEQA [CEQA Guideline 15378].

Reference: 2004 Electrical Master Plan Update, 2017 Wastewater Treatment Plan and Biosolids Master Plan,

WWTP Energy Master Plan

Fund Allocation Basis: Project is required to replace or rehabilitate existing regional wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
250,000	0	500,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$750,000Current Adopted Budget\$750,000Increase/(Decrease)\$0

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 18-P016 Alum Addition

Funding Allocation: 75% **310** 25% **320**

Project Manager: Kevin Randeni Status: Continuing Project

Project Summary:

This project will construct facilities to add alum to the facultative sludge lagoon return water. The addition of alum will precipitate phosphate from the return water and reduce the formation of struvite. Currenty, one of the strategies to avoid the formation of struvite at the wastewater treatment plant (WWTP) is to run the WWTP in a mode where the phosphate remains in the liquid process and exits the WWTP with the effluent, rather than remaining in the biosolids and forming struvite in the digesters. However, this mode of operation is not as effective in producing a consistently high quality effluent. The addition of alum will allow the WWTP to operate in an alternate mode that will produce a better settling sludge and higher quality effluent, thus eliminating the need for an additional clarifier.

CEQA: Categorical Exemption [CEQA Guideline 15303]

Reference: 2017 Wastewater Treatment Plant and Biosolids Master Plan

Fund Allocation Basis: Project is required to improve current operations; based on current vs. projected buildout average

dry weather flow at the time of project inception.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
142,080	1,526,000	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$1,668,080Current Adopted Budget\$800,000Increase/(Decrease)\$868,080



CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Expansion (Fund 320)

CIP No. 18-P013 Biosolids Dewatering Facility

Funding Allocation: 100% 320

Project Manager: Kevin Randeni Status: New Project

Project Summary:

The water content of the biosolids harvested from District's facultative sludge lagoons (FSLs) limits the amount of biosolids that can be placed on the dedicated land disposal (DLD) site. With this limitation, the FSLs are slowly accumulating biosolids. The current land application of biosolids on the DLD is by far the most cost-effective solution for biosolids management. To continue using the DLD for biosolids disposal, the biosolids need to be dewatered. This project will construct a new biosolids dewatering facilities and building at the DLD site. The dewatering of biosolids will allow the DLD to continue to be the primary method of sludge disposal. Should the District wish to diversify biosolid management or take advantage of new technologies to recover biosolids as a resource, dewatering will be required. Therefore, dewatering is a near term solution for biosolids disposal that will also move the District toward diversifying its biosolids management in the long term. This project is required for both options of continuing with DLD disposal or participation in a regional biosolids facility.

CEQA: To be determined.

Reference: 2017 Wastewater Treatment Plant and Biosolids Master Plan

Fund Allocation Basis: Project is required to meet the needs for biosolids disposal for future customers.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	300,000	0	0	0	2,525,000	12,120,000	0	0	0	11,900,000

Total Estimated Project Cost\$26,845,000Current Adopted Budget\$26,545,000Increase/(Decrease)\$300,000

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 20-P006 Recoating of Digester Interior Covers 3, 2, and 1

Funding Allocation: 100% 310

Project Manager: Rudy Portugal Status: New Project

Project Summary:

The steel digester covers were installed in 2002. This project will repair and coat the interior covers of the digesters, if needed, to extend their useful life. The project will also include minor general repairs to the digesters. While the digesters are drained for cleaning, the interior covers will be inspected. After the condition of each interior cover is determined, necessary work will be performed. Digester 1 was last cleaned in 2012 and Digesters 2 and 3 in 2013.

CEQA: Categorical Exemption [CEQA Guideline 15301].

Reference:

Fund Allocation Basis: Project is required to replace or rehabilitate existing regional wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
62,934	227,066	0	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$290,000

Current Adopted Budget \$290,000

Increase/(Decrease) \$0



CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 22-P021 Hypochlorite Building Rehabilitation

Funding Allocation: 100% 310

Project Manager: Kevin Randeni Status: New Project

Project Summary:

There are four sodium hypochlorite bulk storage tanks at the wastewater treatment plant. These tanks were replaced in 2014. During the tank replacement, a visual analysis of the existing pads and building were reviewed by a structural engineer. The coating at the perimeter of the existing tank pads and coating on the tank room slab have failed in areas where the storage tanks had leaked. The coating in the pump room had also failed completely due to chemical exposure. This project will address those findings and correct the problems. Concrete samples will be taken and tested for chloride ion concentration. Concrete repair will be undertaken before reinforcing steel capacity is compromised. Alternatives to arrest any ongoing corrosion will also be investigated and implemented. Concrete coating will be applied over the concrete repairs and corroded pipe; pump supports in the pump room will be replaced; and the wall to slab, wall-to-wall connection and roof beams will also be strengthened to update the building to current seismic standards. The project will replace all existing tanks and also install a fifth storage tank to provide additional storage and make use of an existing pad and infrastructure already in place.

CEQA: Categorical Exemption [CEQA Guideline 15301].

Reference: Hypochlorite Storage Building Condition and Seismic Assessment, Carollo Engineers, October 2014.

Fund Allocation Basis: Project is required to replace or rehabilitate existing regional wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	490,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$490,000

Current Adopted Budget \$0

Increase/(Decrease) \$490,000

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 19-P003 WWTP Fencing and Security - Phase 2

Funding Allocation: 100% 310

Project Manager: Rudy Portugal Status: New Project

Project Summary:

This project will improve security along the Wastewater Treatment Plant (WWTP) perimeter. This project will install 8-feet tall vinyl coated fence along the south, west and north border of the facility. It will also install landscaping, including small retaining walls along the south fence and north fence near Building R. Fencing and landscaping along the eastern border of the facility was completed in conjunction with the construction of the fourth digester in 2019.

CEQA: Negative Declaration approved May 19, 1998.

Reference: Physical Security Risk Assessment, Pinkerton Consulting, April 2004.

Fund Allocation Basis: Project is required to replace or rehabilitate existing regional wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	1,210,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$1,210,000

Current Adopted Budget \$1,210,000

Increase/(Decrease) \$0



CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 00-P026 RWTF Replacement and Rehabilitation PROGRAM

Funding Allocation: 100% 310

Project Manager: Steven Delight Status: Continuing Program

Project Summary:

This program will fund projects to upgrade, replace and improve facilities and equipment within the Regional Wastewater Treatment Facility (RWTF) to meet operational and permit requirements. Some equipment is now more than 30 years old. This program provides for the renewal, replacement and/or increase in capacity of process equipment on an as-needed basis or the upgrade of equipment as it becomes obsolete. This program may also be used to investigate issues that lead to the identification of projects that require the creation of a specific CIP project. Increases in future years' estimated cashflow reflect anticipated Asset Management Program needs as plant infrastructure ages.

CEQA: To be determined based on individual projects funded by program.

Reference: Asset Management Program

Fund Allocation Basis: Project is required to replace or rehabilitate existing regional wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	500,000	500,000	1,200,000	1,600,000	1,900,000	2,100,000	2,300,000	2,300,000	2,100,000	2,100,000	6,500,000

Total Estimated Project Cost\$23,100,000Current Adopted Budget\$0Increase/(Decrease)\$23,100,000

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 20-P010 Cogeneration Engine #4

Funding Allocation: 100% 310

Project Manager: Rudy Portugal Status: Future Project

Project Summary:

Based on recommendations from the WWTP Energy Master Plan this project will permit, replace, and install additional cogeneration capacity at the wastewater treatment plant (WWTP). The WWTP receives its energy from three cogeneration engines and a direct connection to the PG&E power grid. Approximately 65 to 70 percent of the energy is supplied by the cogeneration engines. Approximately 22 percent of the gas to run the cogeneration engines is biogas. The remaining gas supply is natural gas from PG&E. The 2017 Wastewater Treatment Plant (WWTP) and Biosolids Facility Master Plan indicated that given the current cost of natural gas and electricity additional cogeneration capacity would provide an annual savings of \$470,000 per year and have an approximately 8- 12-year simple payback. Additional onsite generation capacity will also provide a more reliable energy supply for the district with more frequent power grid outages.

CEQA: Initial Study/Mitigated Negative Declaration

Reference: 2017 Wastewater Treatment Plant (WWTP) and Biosolids Facility Master Plan

Fund Allocation Basis: All work shall be done at the WWTP for an existing facility.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	1,000,000	7,000,000	0	0	0	0	0	0	0

Total Estimated Project Cost\$8,000,000Current Adopted Budget\$0Increase/(Decrease)\$8,000,000

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 20-P012 WWTP Security Improvements

Funding Allocation: 100% 310

Project Manager: Sean O'Reilly Status: Future Project

Project Summary:

Security at the Wastewater Treatment Plant (WWTP) is a high priority for the District. This project will address traffic control, video surveillance, physical hardware related to plant security, and provide updated programming to the District's existing security monitoring system. Traffic control will include improvements to the main access gate and provide better control of vehicle movement once in the treatment plant area. Video surveillance will include improvements and reassignment to the 25 cameras currently in use, including the installation of multi-imager cameras that will improve the amount of plant video coverage. Hardware improvements include in stallion of tamper switches to monitor and prevent unauthorized access to the security control panels. In addition, all doors will be evaluated and those that cannot be secured or monitored in a reliable way will be replaced. Once all improvements are in place, programming changes will be made to the existing security system program, integrating the improvements listed above.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: TEECOM Study (2019)

Fund Allocation Basis: Project is required to replace and upgrade existing regional wastewater assets.

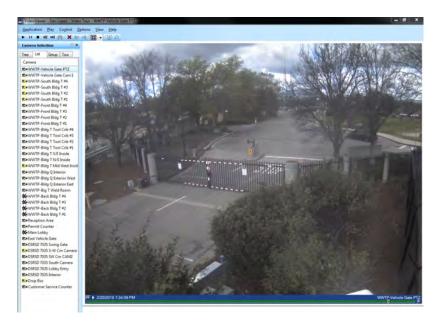
10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
3,426	0	0	0	454,574	0	0	0	0	0	0	0

Total Estimated Project Cost \$458,000

Current Adopted Budget \$458,000

Increase/(Decrease) \$0



CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Expansion (Fund 320)

CIP No. T20-14 WWTP/Biosolids Master Plan

Funding Allocation: 85% **320** 15% **310**

Project Manager: TBD Status: Future Project

Project Summary:

The Wastewater Treatment Plant (WWTP) and Biosolids Facility Master Plan was completed in 2017. The master plan recommended future facilities based on flow projections and potential regulatory scenarios. This update will update the facility plans and costs based on 1) recent WWTP flow and loading data, 2) the effluent nutrient limits proposed for the third San Francisco Bay Nutrients Watershed Permit anticipated for adoption June 2024, and 3) relevant changes in biosolids regulations and technology.

CEQA:

Reference:

Fund Allocation Basis: Fund split based on ADWF that initiates project vs. buildout flowrate

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	650,000	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$650,000Current Adopted Budget\$0Increase/(Decrease)\$650,000

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. T20-15 Flocculation Baffles in Secondary Clarifiers

Funding Allocation: 100% 310

Project Manager: TBD Status: Future Project

Project Summary:

This project will perform computational fluid dynamics (CFD) analysis of the District's secondary clarifiers and provide design of the necessary modifications for secondary clarifier #2. Field testing conducted in August 2018 indicated that secondary clarifiers perform well, but the flocculation center wells (FCWs) are too large and not fully utilized at normal and low flow conditions. Testing indicated that secondary clarifiers suffer from hydraulic short-circuiting and performance could be improved by adding simple modifications, such as flocculation baffles. Improving the secondary clarifier performance will reduce effluent suspended solids concentrations, solids loading on the ACTIFLO process, and chemical usage. CFD analysis will be utilized to determine the most cost effective modifications and conceptual design of the flocculation baffles. The current budget is for design services only.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: N/A

Fund Allocation Basis: Project will improve the efficiency of existing regional wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	0	80,000	0	0	0	0	0	0	0

Total Estimated Project Cost\$80,000Current Adopted Budget\$0Increase/(Decrease)\$80,000

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. T22-09 Recoating and Rehabilitation of Digester 3, 2, and 1

Funding Allocation: 100% 310

Project Manager: Kevin Randeni Status: Future Project

Project Summary:

There are four digesters at the wastewater treatment plant. Each digester is routinely drained, cleaned and inspected every five to seven years. Digester 1 and 2 were cleaned and inspected in 2019, while Digester 3 was cleaned and inspected in 2021. This project will inspect and perform needed maintenance to the digesters, including the recoating of each interior cover. Interior covers have a life expectancy of twenty years. This will be the first recoating since the installation of each cover in 2002.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: N/A

Fund Allocation Basis: Project is required to replace or rehabilitate existing regional wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

	Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
Ī	0	0	0	0	0	350,000	350,000	500,000	0	0	0	0

Total Estimated Project Cost\$1,200,000Current Adopted Budget\$0Increase/(Decrease)\$1,200,000

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. T22-18 Inner Sewer Flow Metering

Funding Allocation: 100% 310

Project Manager: TBD Status: Future Project

Project Summary:

This project will install a metering manhole upstream of the influent diversion structure to measure the contribution of plant process flows and storm drainage to the plant influent.

CEQA: Categorical Exemption [CEQA Guideline 15282].

Reference: Inner-Sewer Wetwell and Pumping Assessment, Option C.2 (CIP18-P012), October 2018, Psomas.

Fund Allocation Basis:

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	0	0	0	500,000	0	0	0	0	0

Total Estimated Project Cost \$500,000 DSRSD Net Cost: \$
Current Adopted Budget \$0 Other Funding:
Increase/(Decrease) \$500,000

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. T22-21 Backup Power at Laboratory

Funding Allocation: 80% **310** 20% **610**

Project Manager: TBD Status: Future Project

Project Summary:

This project will evaluate and install an uninterruptible power supply (UPS) for the laboratory.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: N/A

Fund Allocation Basis: Based on laboratory staff allocation.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	90,000	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$90,000 DSRSD Net Cost: \$
Current Adopted Budget \$0 Other Funding:

Increase/(Decrease) \$90,000

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. T22-28 Laboratory Cabinetry Replacement

Funding Allocation: 80% **310** 20% **610**

Project Manager: TBD Status: Future Project

Project Summary:

This project will evaluate the current workflow for the laboratory and replace the cabinetry and bench tops. The current cabinetry was installed in the early 1990's and is failing in several areas.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: N/A

Fund Allocation Basis: Based on laboratory staff allocation.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	200,000	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$200,000Current Adopted Budget\$0Increase/(Decrease)\$200,000

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 14-P005 Wet Weather Flow Capacity and Chlorine Contact Tank Dewatering

Funding Allocation: 85% **310** 15% **320**

Project Manager: Kevin Randeni Status: Future Project

Project Summary:

This project will remove a divider wall between the chlorine contact tank (CCT) influent channel and the CCT and remove the weir in the chlorine junction box to allow greater flows through these structures. The project will also add a CCT dewatering system. When the wastewater treatment plant flow is greater than 37 mgd, the secondary clarifiers flood due to hydraulic constraints downstream of the clarifiers. Removal of the walls and weirs will allow for greater flows through the wastewater treatment plant. Also, the chlorine contact tank should ideally be cleaned once every quarter. Dewatering the CCT for cleaning involves extensive pumping equipment setup and staff time, and once everything is set up, it takes time to pump out the water. This project will design necessary pumping valving and controls for a CCT dewatering system.

CEQA: Mitigated Negative Declaration approved by Board on 8/17/1999

Reference: Secondary Effluent Wet Weather Capacity Review, RMC, August 2014; 2017 WWTP and Biosolids

Master Plan.

Fund Allocation Basis: Based on current vs projected buildout average dry weather flow at the time of project inception.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
57,381	0	0	725,000	0	0	0	0	0	0	0	0

Total Estimated Project Cost\$782,381Current Adopted Budget\$507,381Increase/(Decrease)\$275,000



CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 18-P014 WWTP Recycled and Potable Water Systems

Funding Allocation: 100% 310

Project Manager: TBD Status: Future Project

Project Summary:

This project will expand the use of recycled water for plant processes. The current fire main supplies both the potable and fire water systems. This project will install approximately 550 feet of 3-inch above ground and 350 feet of 3-inch below ground recycled water pipe to the cogeneration building, blower building, plant air compressors, bar screens, 1250kW and 750 kW generators, and buildings S and T. The first phase of the project, installing 500 feet of 2-inch potable water lines to Building A, D, S, T, and fleet maintenance building, has been completed.

CEQA: Categorical Exemption [CEQA Guideline 15303].

Reference:

Fund Allocation Basis: Project is required to replace or rehabilitate existing regional wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
276	0	0	200,000	184,000	0	0	0	0	0	0	0

Total Estimated Project Cost\$384,276Current Adopted Budget\$384,000Increase/(Decrease)\$276

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. 18-P017 Public Outreach Signage at WWTP

Funding Allocation: 100% 310

Project Manager: Sue Stephenson Status: Future Project

Project Summary:

Facility tours are one way the District communicates the value we provide the community 24/7. Engaging with our customers in an on-going, direct, proactive way builds confidence in the District as a reliable, trustworthy service provider and increases our customers' understanding of what they get for their money. Tours also promote careers in the water/wastewater industry. This project will purchase and install signs at the wastewater treatment plant to help facilitate the tours that are given on a regular basis.

CEQA:

Reference:

Fund Allocation Basis: Project will benefit existing regional wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	100,000	0	0	0	0	0	0	0	0	0

Total Estimated Project Cost \$100,000
Current Adopted Budget \$100,000
Increase/(Decrease) \$0

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. T16-11 WWTP Motor Control Center and Distribution Panel "A" Improvements

Funding Allocation: 100% 310

Project Manager: TBD Status: Future Project

Project Summary:

This project will upgrade WWTP Motor Control Centers (MCCs) MCC-E and Electrical Distribution Panel A (DPA) to a standard 65,000 Ampere Interrupting Capacity (AIC) rating. Based on the most recent short circuit analysis, ten MCCs and DPA either do not have adequate short circuit equipment AIC ratings to either handle possible fault scenarios or to handle future expansions. The upgrade will also require modifications to existing MCC buckets as the MCC's are 20+ years old and exact replacement parts (i.e. starters, circuit breakers, etc.) are no longer readily available.

CEQA: Categorical Exemption [CEQA Guideline 15301, 15302].

Reference:

Fund Allocation Basis: Project is required to replace or rehabilitate existing regional wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	0	0	0	0	1,350,600	0	0	0	0

Total Estimated Project Cost\$1,350,600Current Adopted Budget\$0Increase/(Decrease)\$1,350,600

CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. T16-40 WWTP Pavement Repair

Funding Allocation: 100% 310

Project Manager: TBD Status: Future Project

Project Summary:

This project will repair and seal coat pavement at the wastewater treatment plant. The facility's pavement is subject to vehicles with heavy loads. This work is required periodically to maintain the integrity of the pavement.

CEQA: Categorical Exemption [CEQA Guideline 15301].

Reference:

Fund Allocation Basis: Project is required to replace or rehabilitate existing regional wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	0	200,000	0	0	0	0	0	0	0

Total Estimated Project Cost \$200,000

Current Adopted Budget \$0

Increase/(Decrease) \$200,000



CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. T16-54 Odor Reduction Tower Replacement

Funding Allocation: 100% 310

Project Manager: Sukhpreet Mann Status: Future Project

Project Summary:

This project will either rehabilitate or replace the Odor Reduction Tower (ORT) and commutator room. The ORT treats odorous air from the WWTP influent pump room, aerated grits tanks, and the grit building. Although the ORT effectively treats hydrogen sulfide, it does not effectively treat reduced sulfur compounds. This project will help the District meet the WWTP odor control goals and support the District's "good neighbor" policy to minimize odor impacts to the surrounding community.

CEQA: Categorical Exemption [CEQA Guideline 15302]

Reference: 2008 Update to Odor Control Focus Areas Analysis, CH2M Hill, July 2009

Fund Allocation Basis: Project is required to replace existing regional wastewater assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	0	0	2,000,000	0	0	0	0	0	0

Total Estimated Project Cost \$2,000,000

Current Adopted Budget \$0

Increase/(Decrease) \$2,000,000



CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. T18-15 Cogeneration Engine Replacement

Funding Allocation: 100% 310

Project Manager: TBD Status: Future Project

Project Summary:

This project will replace the existing cogeneration engines based on recommendations from the WWTP Energy Master Plan. The existing cogeneration engines ae in good working condition but are old, with one engine block more than 50 years old. Much of the ancillary cogeneration equipment needs replacement and it is anticipated the engines will need to be replaced because of air quality regulations, parts availability, or a catastrophic breakdown of some units.

CEQA: Categorical Exemption [CEQA Guideline 15302].

Reference: The 2017 Wastewater Treatment Plant (WWTP) and Biosolids Facility Master Plan, Appendix N,

WWTP Energy Master Plan

Fund Allocation Basis: Project is required to replace or rehabilitate existing regional wastewater fund assets.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
C	0	0	0	0	0	0	2,000,000	5,000,000	5,000,000	0	0

Total Estimated Project Cost \$12,000,000

Current Adopted Budget \$0

Increase/(Decrease) \$12,000,000



CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Expansion (Fund 320)

CIP No. T10-62 Emergency Power for Distribution Panel-D

Funding Allocation: 100% 320

Project Manager: TBD Status: Future Project

Project Summary:

This project will install a 900 kW emergency power generator for the Distribution Panel-D (DPD) switchgear to support continued growth of the service population and the corresponding increases in influent pumping and related WWTP equipment, such as the Bar Screens, Primary Clarifiers, etc. Panel DPD is currently provided with emergency power via the existing generator, but higher flows will require an additional generator for Panel DPD. Emergency power is also a requirement of the District's NPDES Permit. This project will be revised per the updated Energy Master Plan and Electrical Master Plan, which is scheduled for completion in 2023.

CEQA: To be determined

Reference: 2004 WWTP Electrical Master Plan and dependent on findings of 2019 Electrical Master Plan

Update; 2017 WWTP and Biosolids Master Plan

Fund Allocation Basis: Project is required for future customer wastewater treatment capacity.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	0	0	0	0	0	0	0	0	5,560,000

Total Estimated Project Cost \$5,560,000

Current Adopted Budget \$0

Increase/(Decrease) \$5,560,000



CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Expansion (Fund 320)

CIP No. T10-83 Cover Primary Clarifiers

Funding Allocation: 100% 320

Project Manager: TBD Status: Future Project

Project Summary:

This project will cover the primary clarifiers. The settled sewerage channel and the primary clarifiers have been identified in the Odor Control Master Plan as areas in the wastewater treatment plant that have odor issues. The project may cover the entire primary tanks or only the launderers. The foul air removed from the primary clarifiers will be treated in a new odor treatment facility that also serves the settled sewerage channel and other processes in the area.

CEQA: Categorical Exemption [CEQA Guideline 15303]

Reference: 2008 Update to Odor Control Focus Areas Analysis, CH2M Hill, July 2009; 2017 WWTP and Biosolids

Master Plan

Fund Allocation Basis: New project is odor control associated with increasing flows into WWTP.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	2	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
	0	0	0	0	0	0	0	0	0	4,694,000	0	0

Total Estimated Project Cost \$4,694,000

Current Adopted Budget \$0

Increase/(Decrease) \$4,694,000



CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Expansion (Fund 320)

CIP No. T12-08 Cover Settled Sewage Channel and Selector

Funding Allocation: 100% 320

Project Manager: TBD Status: Future Project

Project Summary:

This project will cover the settled sewage channel and the selector. The settled sewage channel and the primary clarifiers have been identified in the Odor Control Master Plan as areas in the WWTP that have odor issues. In addition, adding the covers will allow the addition of air to the settled sewage channel, which will increase the performance of the WWTP. The foul air removed from the settled sewage channel will be treated in a new odor treatment facility that also serves the primary clarifiers and other items in the area. The new biofilter will be constructed modular and will be added when the primaries are covered.

CEQA: To be determined

Reference: 2008 Update to Odor Control Focus Areas Analysis, CH2M Hill, July 2009; 2017 WWTP and Biosolids

Master Plan

Fund Allocation Basis: New project is odor control associated with increasing flows into WWTP.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	0	0	2,358,000	0	0	0	0	0	0

Total Estimated Project Cost \$2,358,000

Current Adopted Budget \$0

Increase/(Decrease) \$2,358,000



CATEGORY: REGIONAL WASTEWATER TREATMENT

Regional Wastewater Replacement (Fund 310)

CIP No. T16-42 Nutrient Removal

Funding Allocation: 80% **310** 20% **320**

Project Manager: TBD Status: Future Project

Project Summary:

In April 2014, the Bay Area Regional Water Quality Control Board (RWQCB) issued a San Francisco Bay Nutrients Watershed permit to municipal wastewater dischargers. The permit requires wastewater dischargers to evaluate reductions in nutrient discharges through treatment upgrades and contribute toward studies to develop a San Francisco Bay Nutrient Management Strategy. The District is working with the Bay Area Clean Water Agencies (BACWA) to address the permit requirements. If the current studies determine wastewater discharges have an adverse effect on Bay water quality, the RWQCB will impose nutrient load limits on the wastewater treatment plant effluent which will require treatment upgrades. Although future regulation or the extent of the regulation is uncertain, it is prudent that the District plan for some future treatment upgrades. This project assumes the addition of three aeration basins, a fifth secondary clarifier, and chlorination improvements to meet BACWA Level 2 effluent nutrient requirements.

CEQA: To be determined.

Reference: RWQCB's San Francisco Bay Nutrients Watershed Permit; 2017 WWTP and Biosolids Master Plan.

Fund Allocation Basis: Based on ratio of current ADWF to projected buildout ADWF at the time of project inception.

10-Year Cash Flow and Estimated Project Cost:

Prior	FYE 22	FYE 23	FYE 24	FYE 25	FYE 26	FYE 27	FYE 28	FYE 29	FYE 30	FYE 31	Future
0	0	0	0	0	0	0	0	0	7,000,000	15,000,000	15,000,000

Total Estimated Project Cost\$37,000,000Current Adopted Budget\$0Increase/(Decrease)\$37,000,000

Appendix A

Fiscal Year 2022 and 2023 Capital Outlay By Fund

Asset Description	FY 2022	% Water	% Local	% Regional
Vehicle - Ford Escape Hybrid	\$ 35,000	50%	20%	30%
Vehicle - Ranger Supercab (Qty. 2)	\$ 74,000	60%	35%	5%
Vehicle - Ford F-250 Trucks (Qty 2)	\$ 110,000	90%	10%	0%
Vehicle - Transit Connect	\$ 35,000	90%	10%	0%
CCTV Tuck	\$ 500,000	0%	100%	0%
Valve Truck	\$ 200,000	100%	0%	0%
Long Reach Forklift	\$ 150,000	0%	0%	100%
Influent Gate Control	\$ 120,000	0%	0%	100%
Environmental Compliant Blasting/Removal System	\$ 50,000	0%	0%	100%
Pump Station 20A Pump #1 & #3	\$ 60,000	100%	0%	0%
D7 Tractor for Bio-Solids Harvesting	\$ 303,210	0%	0%	100%
Ion Chromatography Unit	\$ 65,460	60%	0%	40%
FISCAL YEAR 2022 TOTAL:	\$ 1,702,670	\$ 477,676	\$ 550,900	\$ 674,094

Asset Description	FY 2023	9	% Water	9	% Local	%	Regional
Vehicle - Ford F-250 Trucks (Qty 4)	\$ 220,000		90%		10%		0%
Facultative Sludge Lagoon Mixers	\$ 100,000		0%		0%		100%
Vehicle - Ford Transit Van	\$ 30,000		50%		20%		30%
Vehicle - Van	\$ 30,000		0%		50%		50%
FISCAL YEAR 2023 TOTAL:	\$ 380,000	\$	213,000	\$	43,000	\$	124,000
GRAND TOTAL:	\$ 2,082,670	\$	690,676	\$	593,900	\$	798,094

Appendix B

RESOLUTION NO. 36-21

RESOLUTION OF THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT APPROVING CAPITAL IMPROVEMENT PROGRAM (CIP) TEN-YEAR PLAN FOR FISCAL YEARS 2022 THROUGH 2031 AND ADOPTING THE CAPITAL IMPROVEMENT PROGRAM TWO-YEAR BUDGET FOR FISCAL YEARS 2022 AND 2023

WHEREAS, the District is required to adopt a capital budget by September 1; and

WHEREAS, District staff has prepared the "Capital Improvement Program Ten-Year Plan for Fiscal Years 2022 through 2031 and Two-Year Budget for Fiscal Years 2022 and 2023" (CIP Plan and Budget) that includes projects necessary to continue the mission of the District; and

WHEREAS, the CIP Two-Year Budget consists of the first two years of the CIP Ten-Year Plan; and WHEREAS, in accordance with the requirements of California Government Code Section 61110(c) which govern community services districts, on May 18, 2021, the District Secretary published the notice of public hearing for the biennial Capital Improvement Program Two-Year Budget for Fiscal Years 2022 and 2023, which was more than fourteen (14) days prior to the public hearing for the CIP budget; and

WHEREAS, the Board of Directors held a Public Hearing on June 1, 2021, to consider the adoption of the CIP Two-Year Budget.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF DIRECTORS OF DUBLIN SAN RAMON SERVICES DISTRICT, a public agency located in the Counties of Alameda and Contra Costa, California, as follows:

- 1. The CIP Ten-Year Plan for Fiscal Years 2022 through 2031 is hereby approved.
- 2. The CIP Two-Year Budget for Fiscal Years 2022 and 2023 included in the "Capital Improvement Program Ten-Year Plan for Fiscal Years 2022 through 2031 and Two-Year Budget for Fiscal Years 2022 and 2023" attached (Exhibit "A") and by reference incorporated herein, is hereby adopted, and all expenditures made consistent therewith are hereby ratified and approved.
- 3. Project and Program budgets provided in the CIP Two-Year Budget for Fiscal Years 2022 and 2023 project sheets are hereby established as the project budgets and program budgets, respectively.
 - 4. Unused program budget funds expire at each fiscal year-end.
- 5. Staff is authorized to proceed in either year with any and all projects and programs that are funded in the CIP Two-Year Budget for Fiscal Years 2022 and 2023, subject to compliance with the California Environmental Quality Act ("CEQA"), and to the conditions that total annual expenditures from the corresponding funds shall not exceed the CIP Plan and Budget fiscal year budget, and that total project expenditures for each project shall not exceed the total project budget.

6. The General Manager, or the General Manager's designated representative, is authorized to file Notices of Exemption for each CEQA exempt project, when appropriate.

ADOPTED by the Board of Directors of the Dublin San Ramon Services District, a public agency in the State of California, Counties of Alameda and Contra Costa, at its regular meeting held on the 1st day of June, 2021, and passed by the following vote:

AYES:

5 - Directors Richard M. Halket, Georgean M. Vonheeder-Leopold, Arun Goel,

Marisol Rubio, Ann Marie Johnson

NOES:

0

ABSENT: 0

Ann Marie Johnson, President