

# OTAY WATER DISTRICT, Spring Valley, CA

Capital Improvement Program Budget

Fiscal Year 2017-2022





# Otay Water District Capital Improvement Program Budget Fiscal Year 2017-2022

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Pedro Porras	Chief, Water Operations
Jose Martinez	Assistant Chief, Water Operations
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*...Dedicated to Community Service*

2554 SWEETWATER SPRINGS BOULEVARD, SPRING VALLEY, CALIFORNIA 91978-2004  
TELEPHONE: 670-2222, AREA CODE 619

September 22, 2016

Honorable Board of Directors  
Otay Water District

I am pleased to present the Otay Water District's Adopted Operating and Capital Budget for Fiscal Year 2017. The budget supports the District's updated FY 2015-2018 Strategic Plan as well as the financing of all of the District's services, programs, and capital needs during the 2017 fiscal year. With a balanced budget and the Strategic Plan in place, the District is well-positioned for continued success in the subsequent years.

The previous year has posed to be one of uncertainties and challenges regarding the drought and water supplies for those in California, specifically San Diego County's retail water agencies and their ratepayers. In May 2015, the District and its customers struggled with mandatory cuts in potable water use ordered by Governor Jerry Brown and the State Water Resources Control Board. Despite District customers having reduced water use 27% since 2007, they still needed to reduce water use by 20% compared to 2013 levels. Through their conservation efforts, District customers exceeded the 20% target, averaging 23% from June through December 2015. In February 2016, the State Water Board adopted revised emergency regulations, which included providing credits to agencies with new local, drought-resilient supplies. In March 2016, with the certification of the Claude "Bud" Lewis Carlsbad Desalination Plant as a drought-resilient supply, San Diego County Water agencies were able to reduce their conservation target by the State Water Board's maximum of eight percent, which lowered the District's target from 20% to 12%. The Carlsbad plant, which started commercial production in December 2015, provides the San Diego region with 56,000 acre-feet of drought-proof water each year, reducing reliance on imported sources.

In May 2016, the State Water Board replaced its state-mandated conservation target method with a supply-based approach, considering each agency's specific circumstances and available water supplies. Now individual urban water agencies may self-certify their

levels of available water supplies based on three additional dry years and the level of conservation necessary to ensure adequate supply assuming a third consecutive dry year.

At the same time the State Board modified its emergency regulations from a state-mandated water use target approach to a supply-based approach, the Metropolitan Water District of Southern California (MWD) also ended its supply allocations. On May 26, 2016, the San Diego County Water Authority (CWA) rescinded its Drought Management Plan Stage 2 and established a public awareness campaign to help maintain a regional commitment to water-use efficiency.

In San Diego, CWA has been allowed to certify supply sufficiency for all member agencies and in June 2016, CWA confirmed that its member agencies have sufficient water supplies to meet demands even during three additional dry years and will not be subject to state mandated water-use reductions through January 2017.

For more than a year the District, other water agencies in the San Diego region, and local civic and business groups advocated for state policies that reflected local water supply investments and conditions. Due to those steadfast efforts and the District's current level of water supply reliability, the District declared an end to Water Shortage Response Level 2 and is no longer under a Water Shortage Response Level.

As conservation mandates went into effect during FY 2016, potable sales volumes decreased 17.8% from FY 2015 levels. As one would expect, reductions in sales will impact revenues. Homeowners and businesses have also implemented conservation measures that are expected to generate permanent reductions in water use. As a result, the District expects sales volumes to recover only one percent from reduced conservation during FY 2017. Remaining increases in sales volumes are expected to come from new customers. Staff will continue to closely monitor these trends as they relate to overall District finances.

I am extremely proud of the District's staff, especially during the drought and state water conservation mandates, because we continued to serve our customers using the high standard of service that we have always striven for. This serves as a great reminder as to why Otay Water District exists. In 2016, we celebrated the District's 60th anniversary of service to East County and South Bay. Since its establishment, the District's motto has been "Dedicated to Community Service." From modest beginnings in 1956 through today, the District remains dedicated to providing outstanding service to the communities and the people we have the honor to serve.

Finding ways to streamline operations and cut costs also is a significant element of the District's ongoing commitment to our customers. By reducing the District's costs, we can pass those savings on to our ratepayers. In FY 2016, the District successfully refinanced its Certificates of Participation (COPs), saving customers more than \$5.6 million. This is only one example of cost savings and the District's ongoing dedication in pursuing cost efficiencies. Since 2007 through 2017, the District has reduced its headcount from 174.5 to 135 employees, a 23% decrease, resulting in a cumulative savings of \$30,052,900. Other cost savings include reducing the number of vehicles and equipment the District maintains, reducing fuel consumption, and decreasing water loss through our successful leak detection and repair program. The District's staff will continue to seek out other operational efficiencies, thus reducing costs and increasing savings for our customers.

In light of California and the West's persisting water challenges, the District continues its efforts to enhance the potable water supply for our service area. We have reached a key milestone in decreasing reliance on other water sources with the certification of the Final Environmental Impact Report/Final Environmental Impact Statement (EIR/EIS) for the District's Otay Mesa Conveyance and Disinfection System Project. Now that the Final EIR/EIS is complete, the United States Department of State (DOS) will use the document's findings and other factors to determine if the project would serve in the national interest. If the DOS determines the project is in the national interest, it will issue the Presidential Permit. If the project obtains other required approvals, the District could start receiving 18 million gallons of desalinated water per day from the Rosarito Desalination plant as early as 2024, serving potable water demands of up to two thirds of our customers.

The District's success as an organization is significantly enhanced by the policies and practices put in place by its Board to ensure the strength, stability, and reliability of the District. The management team is fully confident that with these policies and practices, supported by the FY 2015-2018 Strategic Plan, along with a dedicated and talented staff, that we will achieve continued success as an organization and thus, ensure the well-being of the people we serve.

## **FY 2015-2018 STRATEGIC PLAN**

The FY 2015-2018 Strategic Plan consists of a four-phased approach. Phase one and phase two have been completed. The primary focus of phase one was to develop key enterprise-wide projects – SCADA, Work Order/Asset Management, and Emergency Preparedness/NIMS. Phase two focused on building upon the system foundation, business process improvement, and facilities. As part of phase three in FY 2017, we will continue to

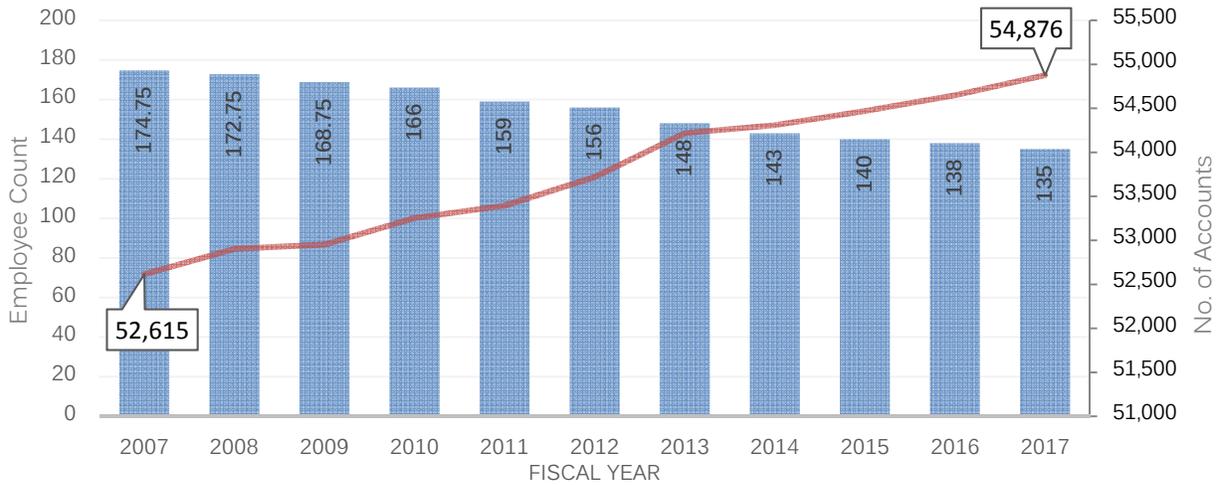
collect and populate these and other systems with new data so we can analyze and optimize these systems for efficiencies. Based on results from FY 2017, in phase four we will enhance key existing programs such as asset management, the internal auditing process, facilities maintenance and security, and work-resource planning. While rapid growth had been a significant focus in the early years of the District and in its earlier strategic plans, today we are primarily focused on operational efficiencies to cost-effectively manage long-term maintenance and replacement of infrastructure.

The change is based on the recognition that as an organization matures, fewer resources are needed to support growth; but greater effort is required to maintain and upgrade infrastructure and assets. This is important because in this phase of its lifecycle, an organization derives income more from customer rates and less from developer fees. Therefore, the increased maintenance and replacement costs place increased pressure on customer rates. To balance the customer's interest in minimizing rate increases while also maintaining an organization's infrastructure, investments, and a strong financial position; the management team must place greater emphasis on internal efficiency and the development of technology assisted best practices. In effect, the organization must use investments in technology to do more with the same or fewer resources.

From a water supply perspective, this means determining the optimum mix of water supply, treatment, and delivery solutions for customers. From a daily operating perspective, efficiency improvements have become the primary source of competitive advantage and cost optimization for utilities.

A goal included in the District's past strategic plans is to capitalize on technology investments and utilizing those technologies to continually improve efficiency and productivity. The success of this approach is evidenced by the gains in productivity and by the reduction in staffing the District has experienced. The following charts show that since 2007, the District has reduced staffing by 39.75 full-time equivalent positions, or 23%, while the number of customer accounts increased by 2,261.

### EMPLOYEE COUNT AND NUMBER OF ACCOUNTS

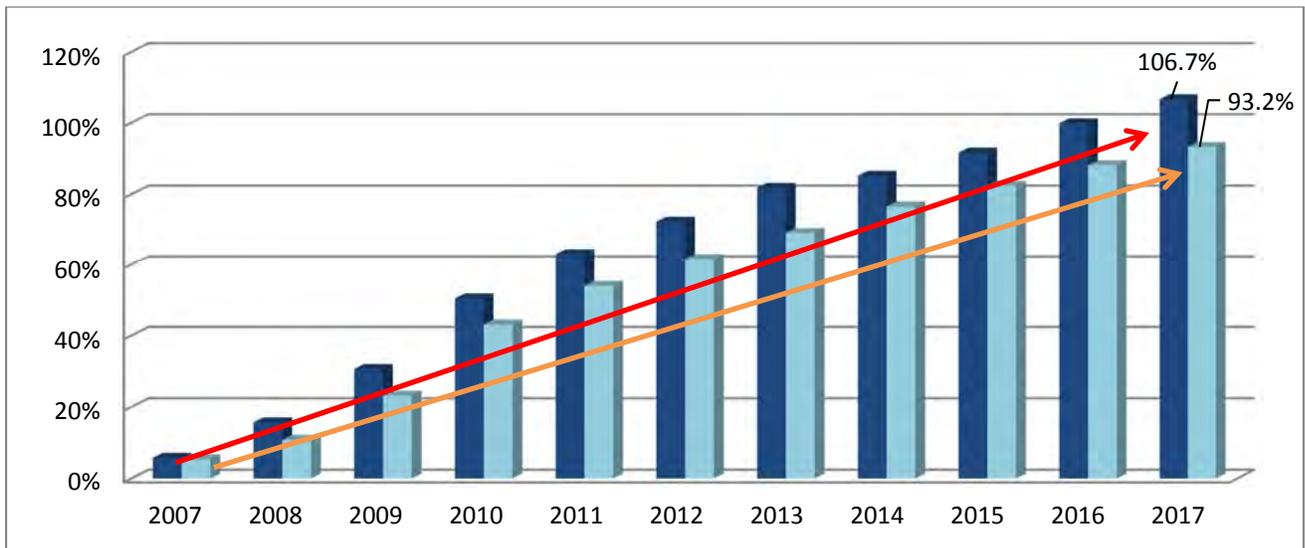


With increased efficiency and higher employee productivity, the District has been able to absorb some of the pass-through costs from its water suppliers, the City of San Diego, San Diego County Water Authority, and Metropolitan Water District. This helps to address customer concerns about rising water rates.

Based on an annual survey of water and sewer rates conducted by District staff, Otay continues to meet its goal of achieving below the midpoint of the cost of the water providers in San Diego County. The District has the 11th lowest water rate out of the 22 member agencies in San Diego County and the 5th lowest sewer rate out of the 28 sewer service providers in San Diego County. The results of the water and sewer surveys are shown pages 23-24 of the adopted [Operating and Capital Budget for fiscal year 2016-2017](#).

The chart on page vii shows that since 2007, the wholesale water supply costs have increased 106.7% while the District's retail water rates have increased a lesser 93.2%.

## WHOLESALE WATER SUPPLY COSTS VS. DISTRICT RETAIL RATE INCREASES



The District currently delivers water service to nearly 49,425 potable and 708 recycled water customer accounts. All of the potable water sold to customers is purchased from CWA. Forty-seven percent of this water is in turn purchased from the region's primary water importer, MWD. This number has decreased significantly compared to previous years and beginning in FY 2016, 7% will come from seawater desalination.

The District has been proactive in reducing its dependence on MWD water treatment facilities. For example, in 2009 the District entered into an agreement with CWA that allowed our neighboring Helix Water District to treat imported water on behalf of the District at their Levy Water Treatment Plant. This has brought regional water treatment closer to our customers, which reduces dependence on water treatment facilities located outside of San Diego County.

The District also collects and recycles wastewater from approximately 4,669 homes and businesses. Wastewater is collected and delivered to the Ralph W. Chapman Water Recycling Facility (RWCWRF), which is capable of reclaiming wastewater at a rate of 1.3 million gallons per day. In addition to the Chapman facility, the District continues purchasing up to 6 million gallons per day of recycled water from the City of San Diego's South Bay Water Reclamation Plant. The use of recycled water for landscape irrigation and industrial processes reduces dependence on imported potable supplies, provides a local supply that is drought proof, and diversifies District resources.

## **FISCAL YEAR 2017 OPERATING BUDGET SUMMARY**

Otay Water District's operating expenditures consist of three major sectors: potable water, recycled water, and sewer, budgeted at \$91,741,500 for Fiscal Year 2017. Revenues from potable and recycled water are projected to be \$81,138,900, approximately \$2,239,200 more than the Fiscal Year 2016 budget. Water sales volumes are expected to decrease by 8% compared to FY 2016 budgeted sales due to drought mandates. Sewer revenues are projected to be \$2,918,900, approximately \$287,400 less than fiscal year 2016. This decrease in sewer revenue is primarily due to the discontinuance of the system fee recapture, which was part of a 2013 Cost of Service study. The remaining budgeted revenues of \$7.7 million come from various special fees, assessments, and miscellaneous income.

Significant aspects of the Operating Budget are:

- A balanced budget supporting the goals of the Strategic Plan.
- The use of an economist to project growth for the region.
- An updated six-year Rate Model to ensure sound financial planning and reserve levels.
- Ongoing water supply rate increases of 4.0% from MWD and 5.9% from CWA due to the reduced volumes as a result of the Governor's conservation mandate, high cost of supply programs, higher energy costs, and increasing operating costs.
- Implemented rate increases in potable, recycled water, and sewer. This included pass-through rate increases from the City of San Diego, CWA, and the County of San Diego.
- In efforts to minimize rate increases, the District has again reduced staffing levels from 140 full-time equivalent positions last year to 135 this year.
- Of San Diego County's 22 water agencies, the Otay Water District's water rates are below the countywide average.

## **FISCAL YEAR 2017 CAPITAL IMPROVEMENT PROGRAM**

The Fiscal Year 2016-17 Capital Improvement Program (CIP) Budget consists of 89 projects and a budget of \$10.7 million. The budget emphasizes maintenance of existing infrastructure and long-term planning for ongoing programs to meet population growth while functioning within fiscal constraints. This year's CIP budget decreased by \$1,000,000 compared to last year's projection primarily due to \$340,000 decrease in capital purchases for vehicles and field equipment and \$600,000 reduction in reservoir recoating and relining of smaller reservoirs.

## AWARDS AND ACKNOWLEDGMENTS

- The California Society of Municipal Finance Officers (CSMFO) presented Otay Water District the Certificate of Award for *Operating Budget Excellence Award* for Fiscal Year 2015-2016.
- The California Society of Municipal Finance Officers presented Otay Water District the Certificate of Award for *Capital Budgeting Excellence Award* for Fiscal Year 2015-2016.
- The Government Finance Officers Association Officers (GFOA) presented Otay Water District the *Certificate of Achievement for Excellence in Financial Reporting* for its Comprehensive Annual Financial Report for the Fiscal Year ended June 30, 2015.

## CONCLUSION

The Otay Water District's Board of Directors met the challenges presented this year with responsibility, commitment, and persistence in an unwavering effort to continue preserving the stability and financial strength of the District as one of its highest priorities.

This budget reflects the vision of the District's Board, its management, and its employees. We will continue to strive to make enhancements in our budget processes, including an extensive review and analysis of projections for revenues, expenditures, capital projects, and reserves.

I would like to thank the District's staff involved in this process for the efforts put forth in the preparation of this budget to ensure a successful outcome.

To the Board of Directors, we acknowledge and appreciate your continued support and direction in achieving excellence in the financial management and operations of the District.



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Mark Watton, General Manager

## **CIP BUDGET GUIDE**

The District views the Capital Improvement Program (CIP) Budget as an essential tool for proper financial management of the CIP projects. The District manages growth and maintenance of assets through this program. This CIP budget is developed with input from the various project managers throughout the organization and is adopted prior to the start of each fiscal year for the current fiscal year and five subsequent years. It is designed and presented for the general needs of the District, its staff, and citizens. It is a comprehensive and balanced financial plan. This plan features the CIP budget based on demands for services and the impact on the District's financial status and future plans. The budget book is divided into the following sections.

### **GENERAL INFORMATION**

The introductory section contains an overview and general information about the District including the organization chart and awards received. Also included are the budget calendar, a description of the budget process, and the resolution adopting the budget.

### **CAPITAL BUDGET SUMMARY**

The Capital Budget Summary consists of an overview of the District's CIP, including how the Water Resources Master Plan (WRMP) is used to modify the CIP each year based on the latest set of assumptions and criteria. Also included are highlights of the major CIP projects that are completed, in construction, or in design. Additionally, this section contains a review of the CIP reserve funds and funding sources, a six-year listing of CIP project expenditures, project justification, and impact on the Operating Budget, project schedules, and the capital purchases budget.

### **CIP PROJECTS**

This section contains the project sheet description and project sheets for each CIP project. These sheets are developed by the project manager and contain critical information for the management of these projects. The projects are divided into four categories: Capital Facility Projects, Replacement/Renewal Projects, Capital Purchase Projects, and Developer Reimbursement Projects.

### **APPENDIX**

The last section consists of the Water Meter Capacity Fee Schedule, a Glossary, List of Acronyms, and an Index.

# AT-A-GLANCE

## MISSION STATEMENT

To provide high value water and wastewater services to the customers of the Otay Water District in a professional, effective, and efficient manner.

## HISTORY

The Otay Water District was formed in 1956 to serve as a public water and sewer agency, authorized as a California special district under the provisions of the Municipal Water District Act of 1911. The District's ordinances, policies, taxes, and rates for service are set by five Directors elected by voters in their respective geographic area. The District joined the San Diego County Water Authority (CWA) in September 1956 to acquire the right to purchase and distribute imported water throughout its service area. The District is also responsible for the collection, treatment, and disposal of wastewater from a portion of the northern region of the District. In 1980, the District started operation of the Ralph W. Chapman Water Recycling Facility (RWCWRF) and in May 2007 a new source of recycled water from the City of San Diego was obtained, allowing the Otay Water District to supply 12% of total water demand with recycled water.

## SERVICE AREA

The District's boundaries encompass an area of approximately 125 square miles in San Diego County, lying immediately east of the City of San Diego metropolitan area and running from the City of El Cajon south to the international border, abutting the cities of El Cajon and La Mesa and encompassing most of the City of Chula Vista and a small portion of the City of San Diego.



## ORGANIZATIONAL STRUCTURE

The General Manager reports directly to the Board of Directors. The Assistant General Manager along with District management oversees day-to-day operations. The Assistant General Manager oversees the four departments of Administrative Services; Finance; Water Operations; and Engineering. These and other lines of reporting are shown on the organization chart on [page 20](#).

## GENERAL INFORMATION

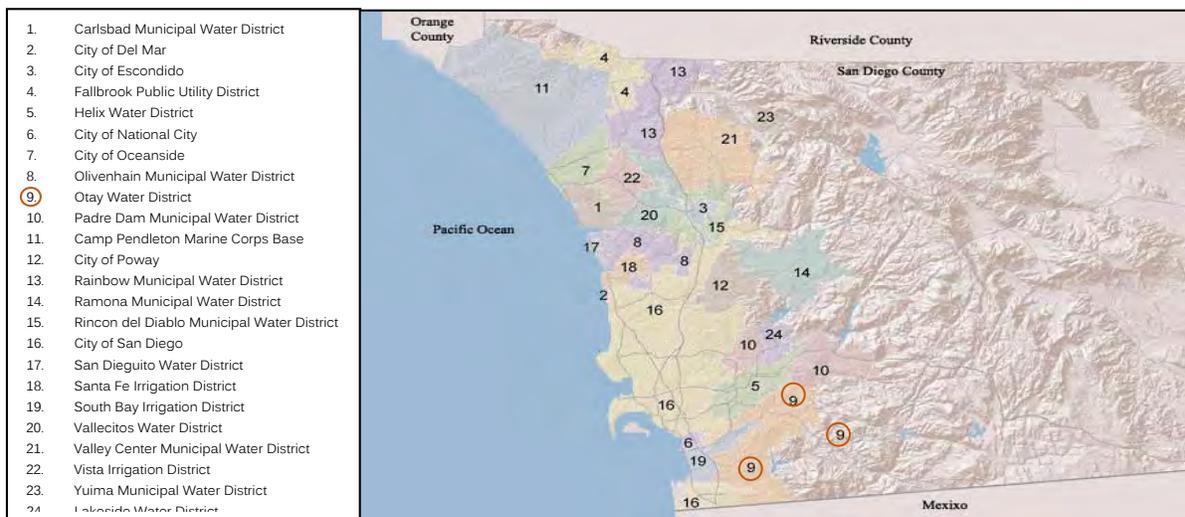
For Fiscal Year 2017, the District will have a staff of 135 full-time equivalent employees under the leadership of the General Manager. The District provides water service to approximately 52% of its expected ultimate deliveries with a population of more than 220,000 people. This percentage increases as the District's service area continues to grow to ultimate build-out. The District is projected to deliver approximately 27,000 acre-feet of potable water to 49,500 potable customer accounts. By 2035, deliveries are expected to reach 45,501 acre-feet of potable water to serve 285,000 people or 69,000 accounts. The growth rate, as projected by the San Diego Association of Governments (SANDAG), for the City of Chula Vista, is approximately 1.0% per year over the next decade. Using historical data and considering current economic conditions, staff has moderated this projection to a growth rate of 0.3% for Fiscal Year 2017.

Since 1956, the District has provided high quality water to a semi-arid region of the southeastern San Diego County. In 1971 the District constructed a small collection and treatment plant for sewer in the northern section of the District, and in 1980 the District opened the Ralph W. Chapman Water Recycling Facility (RWCWRF). For over 50 years, the available supply of water has helped transform the District service area from a mostly scrub and cactus covered backcountry into a balance of diverse environments.

Recycled water from the RWCWRF is used to irrigate golf courses, schools, public parks, roadway landscapes, and various other approved uses in eastern Chula Vista. The RWCWRF is capable of recycling wastewater at a rate of 1.3 million gallons per day (1,200 acre-feet per year). The District is also in partnership with the City of San Diego to beneficially reuse an additional 2,460 acre-feet per year of recycled water for fiscal year 2017, and ultimately up to 6,720 acre-feet per year. The District continues to be the largest retail provider of recycled water in the County of San Diego.

The District also owns and operates a wastewater collection system providing public sewer service to approximately 4,677 customer accounts within the Jamacha drainage basin. The sewer service area covers approximately 8,797 acres, which is about 11% of the District's total service area. Residential customers comprise 97% of the sewer customer base.

### SAN DIEGO COUNTY WATER AGENCIES



## DISTINGUISHED BUDGET PRESENTATION AWARD

The Government Finance Officers Association (GFOA) presented a *Distinguished Budget Presentation Award* to the District for its annual budget for the fiscal year 2015-2016. In order to receive this award, a governmental unit must publish a budget document that meets program criteria as a policy document, as an operations guide, as a financial plan, and as a communications device.

This award is valid for a period of one year only. We believe our current budget continues to conform to program requirements, and we are submitting it to GFOA to determine its eligibility for another award.



FINANCIAL AWARDS

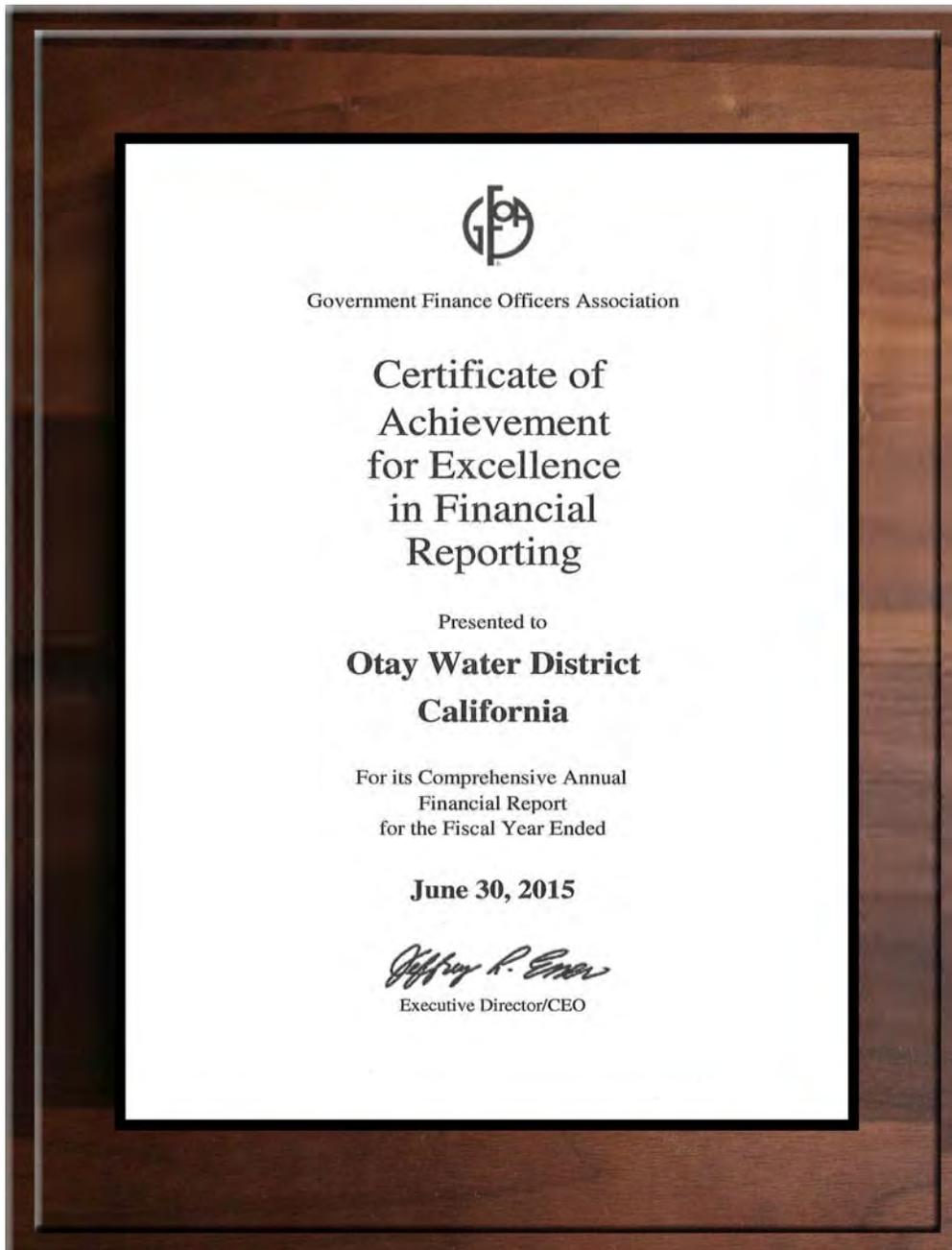


The California Society of Municipal Finance Officers (CSMFO) presented Otay Water District the *Operating Budget Excellence Award* for Fiscal Year 2015-2016.

The California Society of Municipal Finance Officers (CSMFO) presented Otay Water District the *Capital Budgeting Excellence Award* for Fiscal Year 2015-2016.



## FINANCIAL AWARDS



The Government Finance Officers Association Officers (GFOA) presented Otay Water District the *Certificate of Achievement for Excellence in Financial Reporting* for its Comprehensive Annual Financial Report for the Fiscal Year Ended June 30, 2015.

## AWARD



The Construction Management Association of America (CMAA) presented the Otay Water District with the *2016 Distinguished Owner Honoree Award*.

# STRATEGIC PLAN – FISCAL YEARS 2015 - 2018

## INTRODUCTION

The Strategic Plan is the core document which guides the District's efforts to meet and positively adapt to change. The overall plan is extensively reviewed and revised every three to four years. This current edition (covering fiscal years 2015-2018) is the fifth in a series of updated plans.

In order to develop the FY 2015-2018 Strategic Plan, the Senior Management Team carefully reviewed the previous strategic plans and, in an interactive environment, examined future opportunities and risks. After careful analysis, an overall direction is set for the plan. In 2015 a solid systems foundation was put in place completing a replacement work order and SCADA system, and improving the core GIS system for managing the District's infrastructure. The FY 2016 to 2018 objectives, which follow, build upon this foundation and focus on business process improvement and facilities.

The General Manager presented the plan to the Board on May 19, 2015 as part of the overall District Budget. With this plan, the Board is able to make more informed oversight decisions about the utility's direction, and assess performance.

### MISSION

*To provide high quality and reliable water and wastewater services to the customers of the Otay Water District, in a professional, effective and efficient manner.*

### VISION

*A District that is innovative in providing water services at competitive rates, with a reputation for outstanding customer service.*

### KEY CHALLENGE

*Our key challenge, as District staff, is to quantify and demonstrate our commitment and ability to optimize our resources, business processes, and technology to achieve the strategic plan goals. We, as a team, commit to regularly assess and document how our decisions and work practices accomplish our goals and objectives.*

## STRATEGIC PLAN – STATEMENT OF VALUES

### CUSTOMERS

*We take pride that our commitment to customer-centered service is our highest priority.*

### EXCELLENCE

*We strive to provide the highest quality and value in all that we do.*

### INTEGRITY

*We commit ourselves to doing the right thing. Ethical behavior, trustworthiness, and accountability are the District's foundation.*

### EMPLOYEES

*We see each individual as unique and important. We value diversity and open communication to promote fairness, dignity, and respect.*

### TEAMWORK

*We promote mutual trust by sharing information, knowledge and ideas to reach our common goals.*

## STRATEGIC PLAN – BALANCED SCORECARD PERSPECTIVE

The Balanced Scorecard is used as a core methodology for the District's Strategic Plan. This method aligns business activities to the vision and strategy of the organization and is designed to ensure that a company is performing consistently on a wide range of measures necessary to ensure both short-term and long-term advancements.

The Balanced Scorecard emphasizes an integrated strategy approach for the development of goals and measures in four perspectives: customer, financial, business processes, and learning and growth.

Major components of the Strategic Plan are the District's strategic objectives which guide the agency's efforts to meet and positively adapt to change. Each objective is broken down by the balanced scorecard, strategy, and goal required to meet the specific challenge.



<b>Customer</b>	Deliver high quality services to meet and increase confidence of the customer in the value the District provides
<b>Financial</b>	Manage the financial issues that are critical to the District
<b>Business Processes</b>	Maximize efficiency and effectiveness
<b>Learning &amp; Growth</b>	Provide leadership and management expertise

Performance measures and targets are a critical element of the Strategic Plan but differ from strategic plan objectives. Objectives identify the action items that are necessary to execute the mission of the District. Performance measures are designed to ensure the day-to-day operations and services of the utility are meeting agreed upon expectations.

# STRATEGIC PLAN – ADMINISTRATIVE SERVICES

## OBJECTIVES

### Balanced Scorecard: Customer

- Goal** Improve and expand communications
- Objective** Regularly produce and evaluate communications tools and explore the effective use of new media options including: electronic newsletters, auto-dialer services, video streaming, social networks, or web media to ensure the District's outreach efforts are cost-effectively reaching all stakeholders
- Goal** Provide effective water services
- Objective** Update of SCADA program<sup>(2)</sup>

### Balanced Scorecard: Financial

- Goal** Improve financial information and systems
- Objective** Enterprise e-commerce (purchasing/contracting) solution – BidSync<sup>(2)</sup>

### Balanced Scorecard: Business Processes

- Goal** Identify and evaluate improvements to enterprise and departmental business processes.
- Objectives**
- Optimize asset management program
  - Enhance District's enterprise facilities physical security
  - Enhance District's enterprise confine space program
  - Automation and enhancement of District-wide operational forms and workflows<sup>(2)</sup>
  - Evaluate implementation of an on-line performance management system<sup>(1)</sup>

### Balanced Scorecard: Learning and Growth

- Goal** Reinforce a results-oriented and accountable culture
- Objectives**
- Negotiate a successor Memorandum of Understanding for represented employees for 2017 and beyond and related compensation and benefits for unrepresented employees with emphasis on making necessary updates to employee health benefits related to health care reform<sup>(1)</sup>
  - Enhance District's emergency response program

<sup>(1)</sup> New objective in fiscal year 2017

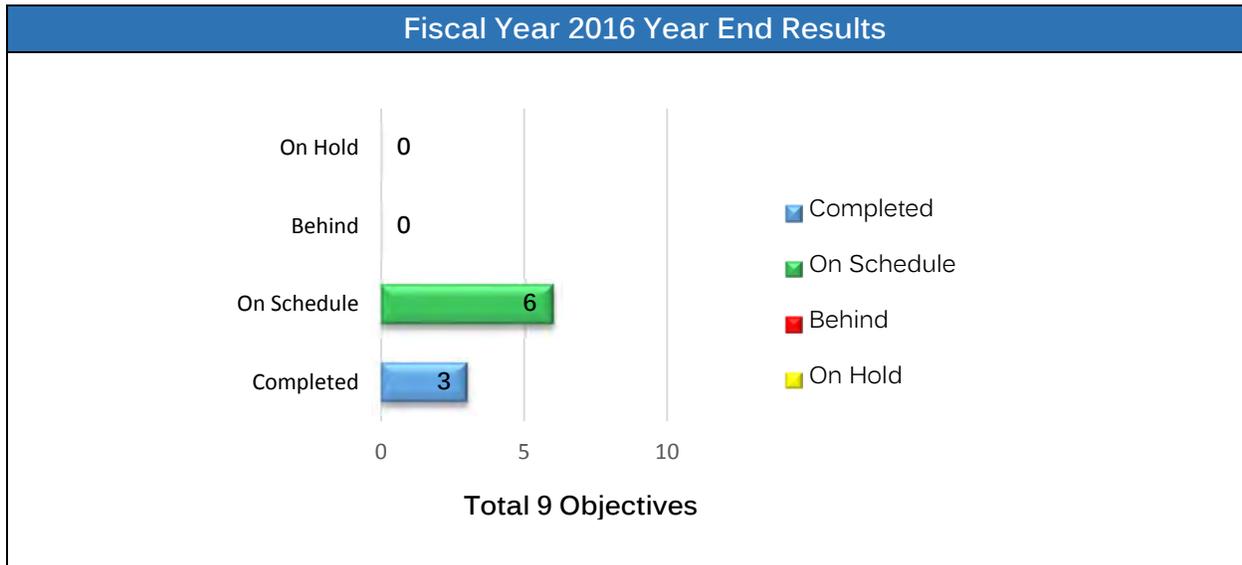
<sup>(2)</sup> Objectives completed in fiscal year 2016

## STRATEGIC PLAN – ADMINISTRATIVE SERVICES

**Goal** Focus on achieving a lean, flexible workforce

**Objectives**

- Evaluate opportunities to combine or transfer similar work functions
- Evaluate training and development programs for new and existing supervisors/managers<sup>(1)</sup>



# STRATEGIC PLAN – FINANCE

## OBJECTIVES

### Balanced Scorecard: Customer

**Goal** Increase customer confidence in the District  
**Objectives** Enhance communications with customers

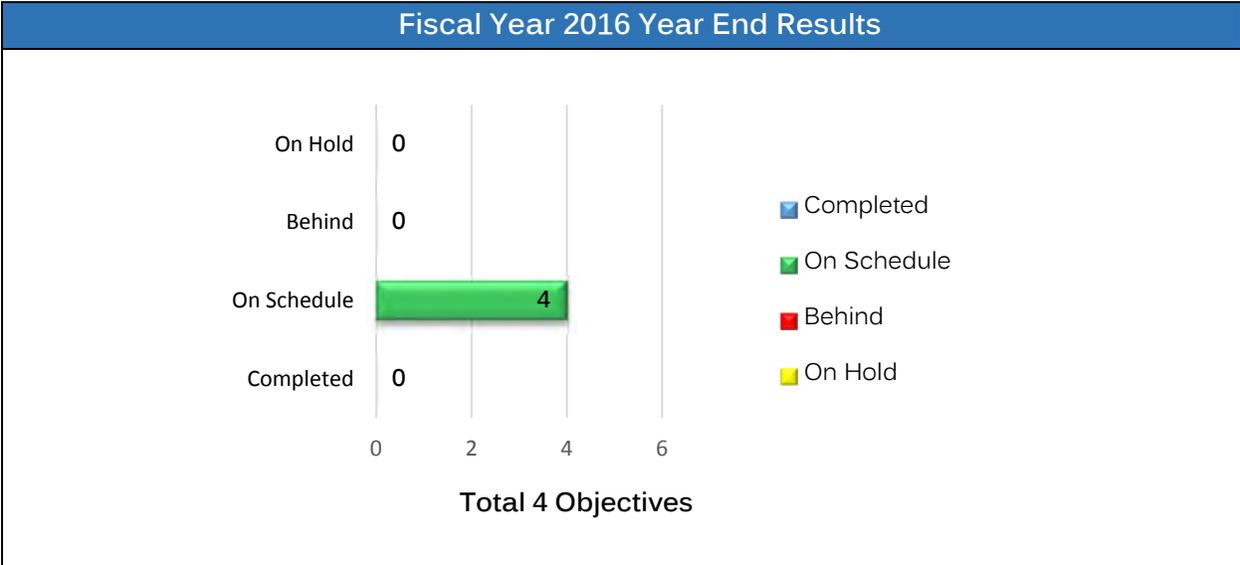
### Balanced Scorecard: Financial

**Goal** Maintain District financial strength  
**Objectives**

- Implement a cost benefit program
- Strengthen internal audit program

### Balanced Scorecard: Business Processes

**Goal** Identify and evaluate improvements to enterprise and departmental business processes  
**Objectives** Improve and streamline meter related processes



# STRATEGIC PLAN – WATER OPERATIONS

## OBJECTIVES

### Balanced Scorecard: Customer

**Goal** Improve and expand communications

**Objectives** Evaluate requirements for future emergency communication system

### Balanced Scorecard: Financial

**Goal** Improve financial information and systems

**Objectives**

- Electric power and fuel management practices
- Enhance management control of non-inventory items

### Balanced Scorecard: Business Processes

**Goal** Actively manage water supply as well as support for water and sewer services

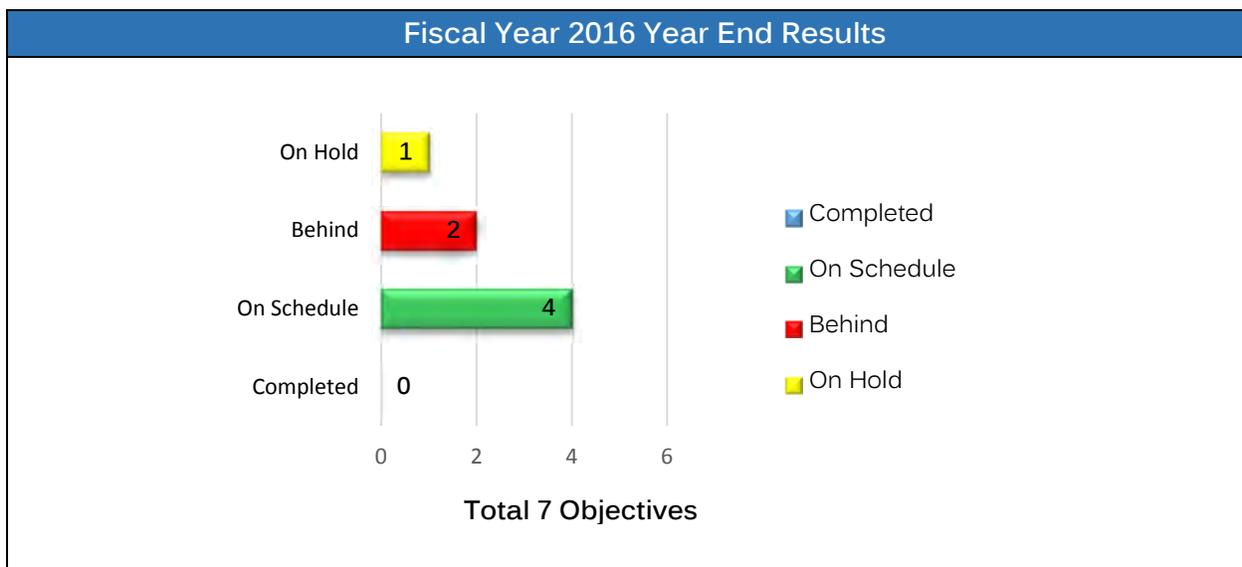
**Objectives**

- Leak detection and repair program
- Pressure vessel maintenance program

**Goal** Identify and evaluate improvements to enterprise and departmental business processes

**Objectives**

- Operations workflow process evaluation
- Streamline input of operations data



# STRATEGIC PLAN – ENGINEERING

## OBJECTIVES

### Balanced Scorecard: Business Processes

**Goal** Actively manage water supply as well as support for water and sewer services

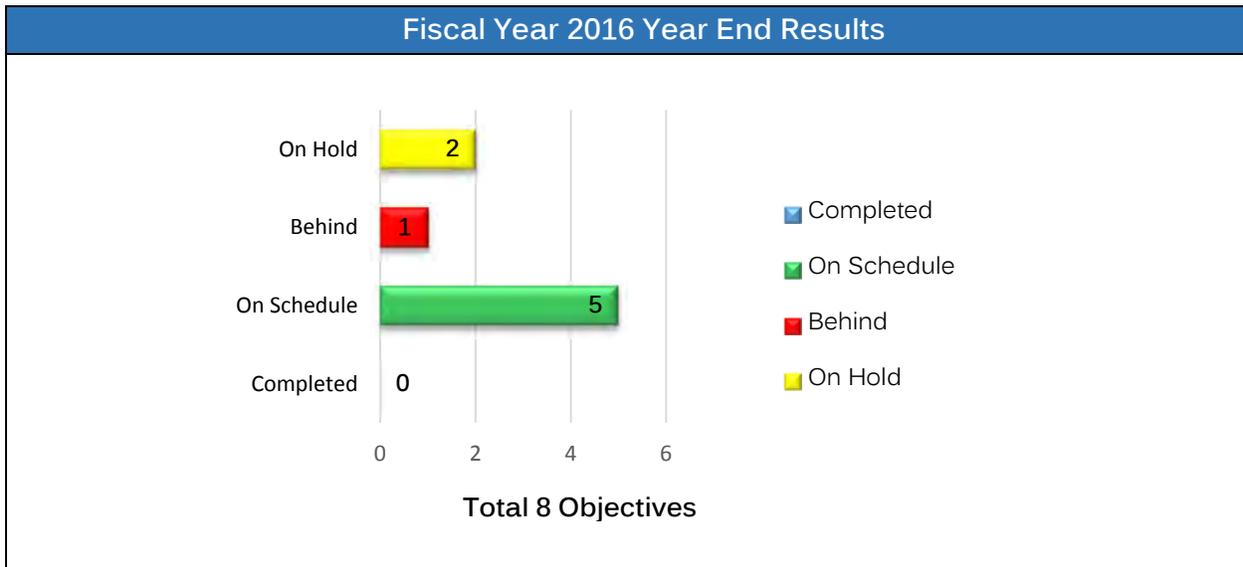
**Objectives**

- Evaluate City of San Diego's pure water program planning/implementation
- Address dependency of imported water
- Sewer system business evaluation
- Evaluate the viability of implementing an indirect potable reuse program

**Goal** Identify and evaluate improvements to enterprise and departmental business processes.

**Objectives**

- Evaluate efficiencies for delivering capital assets
- Streamline work processes in four strategic areas including departmental synergies, technology, procurements, and alignment of business practices
- Revise business practices by modifying the master recycled water permit
- Implement a habitat conservation plan that will streamline O&M within District easements



## CURRENT ECONOMIC CONDITIONS

The District services the needs of a growing population by purchasing water from the San Diego County Water Authority (CWA). The CWA purchases its water from the Metropolitan Water District of Southern California (MWD) and the Imperial Irrigation District (IID). The District takes delivery of the water through several connections of large diameter pipelines owned and operated by CWA. The District currently receives treated water from CWA and from Helix Water District (HWD) by contract with CWA. In addition to the treated water deliveries from CWA, the District has several emergency agreements with the City of San Diego, Helix Water District, and Sweetwater Authority that allows agencies to have flexibility to deal with emergency shutdowns. Through innovative agreements like these, benefits can be achieved by both parties by using excess capacity of another agency and diversifying local supply, thereby increasing reliability.

For several decades, the District has collected and recycled wastewater generated within the Jamacha drainage basin and pumped the recycled water south to the Salt Creek basin where it is used for irrigation and other non-potable uses. However, the demand for recycled water out-paced the supply, requiring the District to supplement the limited supply of recycled water with potable water. Through the agreement with the City of San Diego, the District has discontinued supplementing its recycled demand with potable water. Once again, this decreases the demand on potable water and increases reliability of the District's supply.

The District's sewer service area is growing at a slow but steady rate of approximately 0.2% each year. Most of this growth is from small development projects or homeowners converting their septic system to sewer because of environmental issues.

The District's water service area was one of the fastest growing regions in the nation. It is estimated that the District is currently serving approximately 220,000 residents. The local and national recovery from the global recession of 2009 has been slow; however, due to San Diego County's diverse economy, it is forecasted to do better than most of the nation.

Over the past 12 years, the District has added more than 7,409 new customer connections, with 2,189 occurring in Fiscal Year 2004. In Fiscal Year 2016, the District sold 118 meters which is an average of 10 meters per month.

## THE FUTURE

The District continues to use the challenges presented by growth to create new opportunities and new organizational efficiencies. By utilizing and continuing to refine its Strategic Business Plan, it has captured the Board of Director's vision and united its staff in a common mission. The organization has achieved a number of significant accomplishments based on its successful adherence to its Strategic Business Plan. The District is not only poised to continue successfully providing an affordable, safe, and reliable water supply for the people of its service area, but is set to reap the rewards of greater efficiencies and economies of scale.

### FUTURE DEVELOPMENT

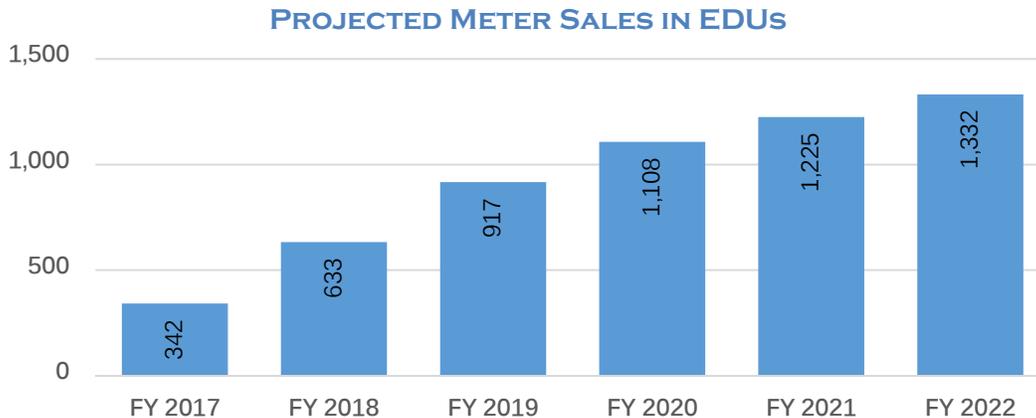
As in the previous fiscal year, the District employed an Economist to provide an Economic Outlook of the national economy, San Diego County's economy, the future of south San Diego County, and an overview of the Otay Water District. Projections of future development indicate that the ratio of multi-family units will increase because the remaining land is zoned for multi-family development.

	Projected Units for Sale and Rental Otay Water District Service Area FY 2016 through FY 2022							
Project	FY 16	FY 17	FY 18	FY 19	FY 20	FY 21	FY 22	Total
Total Single-Family Units	16	91	399	544	619	725	747	3,141
Total Condominium	275	302	232	347	649	669	788	3,262
Total Rental	0	519	310	563	745	557	721	3,415
<b>Total Units</b>	<b>291</b>	<b>912</b>	<b>941</b>	<b>1,454</b>	<b>2,013</b>	<b>1,951</b>	<b>2,256</b>	<b>9,818</b>

<b>% Multi-Family</b>	<b>95%</b>	<b>90%</b>	<b>58%</b>	<b>63%</b>	<b>69%</b>	<b>63%</b>	<b>67%</b>	<b>68%</b>
-----------------------	------------	------------	------------	------------	------------	------------	------------	------------

Source: The London Group Realty Advisors, March 2016

Using the economist report, the District's engineering staff projects that over the next six years the District will sell another 3,416 meters which translates to 5,557 equivalent dwelling units (EDUs).



## THE FUTURE

### **SAN DIEGO COUNTY WATER SUPPLY**

San Diego County imports about 84.0% of its water from the Colorado River and Northern California. Since these sources face legal and environmental constraints, the region has been exploring other ways to ensure an adequate water supply including increased water recycling, more aggressive conservation programs, increased water storage, groundwater desalination, and seawater desalination.

### **CARLSBAD DESALINATION PLANT**

The District's water wholesaler, the San Diego County Water Authority, entered into a formal Water Purchase Agreement (WPA) in November 2012. The WPA outlines the commercial and financial terms for the purchase and delivery of desalinated ocean water produced at the Carlsbad Desalination Plant. Under the WPA, the County Water Authority will purchase 48,000 to 56,000 acre-feet of water annually from the desalination plant. The plant is expected to produce up to 50 million gallons of water a day and will generate enough water to serve about 112,000 families and meet 7 to 10 percent of the region's demand. Commercial production began on December 23, 2015. The total price for the desalinated water for 2016 is estimated to be between \$2,131 and \$2,267 per acre-foot depending on how much is purchased annually. An acre-foot is approximately 325,900 gallons or enough to supply two typical single-family households of four for a year.



Carlsbad Desalination Plant, 2015

### **ROSARITO DESALINATION AND THE OTAY MESA CONVEYANCE AND DISINFECTION SYSTEM PROJECTS**

The Rosarito Desalination Project is comprised of a 100 million gallons per day seawater reverse osmosis desalination plant, together with a pump station and pipeline, to convey water to Tijuana and to the District. This would be the first cross-border water supply project of its kind and requires public messaging to inform key stakeholders and the public of the significance of the Project. If successful, this Project may start delivering water to District customers by early 2024. The Project includes the construction of facilities on the U.S. side to include a large diameter pipeline 3.5 miles long, a pump station, a disinfection facility and the use of the Roll Reservoir in Otay Mesa.



Rosarito Desalination Project rendering

## DEMOGRAPHICS

The District boundaries shown in the map encompass an area of approximately 125.5 square miles in San Diego County, located immediately east of the City of San Diego metropolitan area and running from the City of El Cajon south to the international border. SANDAG creates and maintains a tremendous quantity of demographic, economic, land use, transportation, and criminal justice information about the San Diego region. The demographic data include population characteristics such as age, education, and employment. The following demographic data was provided by The London Group Realty Advisors, which summarizes the sub regional areas of Sweetwater, South Bay and Jamul.



### DEMOGRAPHICS OF THE OTAY WATER DISTRICT

The population of the Otay Water District has grown from 114,937 in 1980 to 286,329 in 2010. This represents a 149.1% increase over the past 30 years. The average persons per household was 3.46. For 2016, SANDAG reports the City of Chula Vista's ethnic/racial makeup with 44.3% Hispanic, 9.0% non-Hispanic white, 17.2% Asian and the remaining population are of other ethnic/racial descent. In a recent economic forecast conducted by The London Group Realty Advisors, the District's median age is 35.8 and 33.14% of adults have a four-year degree or higher. The average household income is \$102,299 and the median household income is \$85,663.

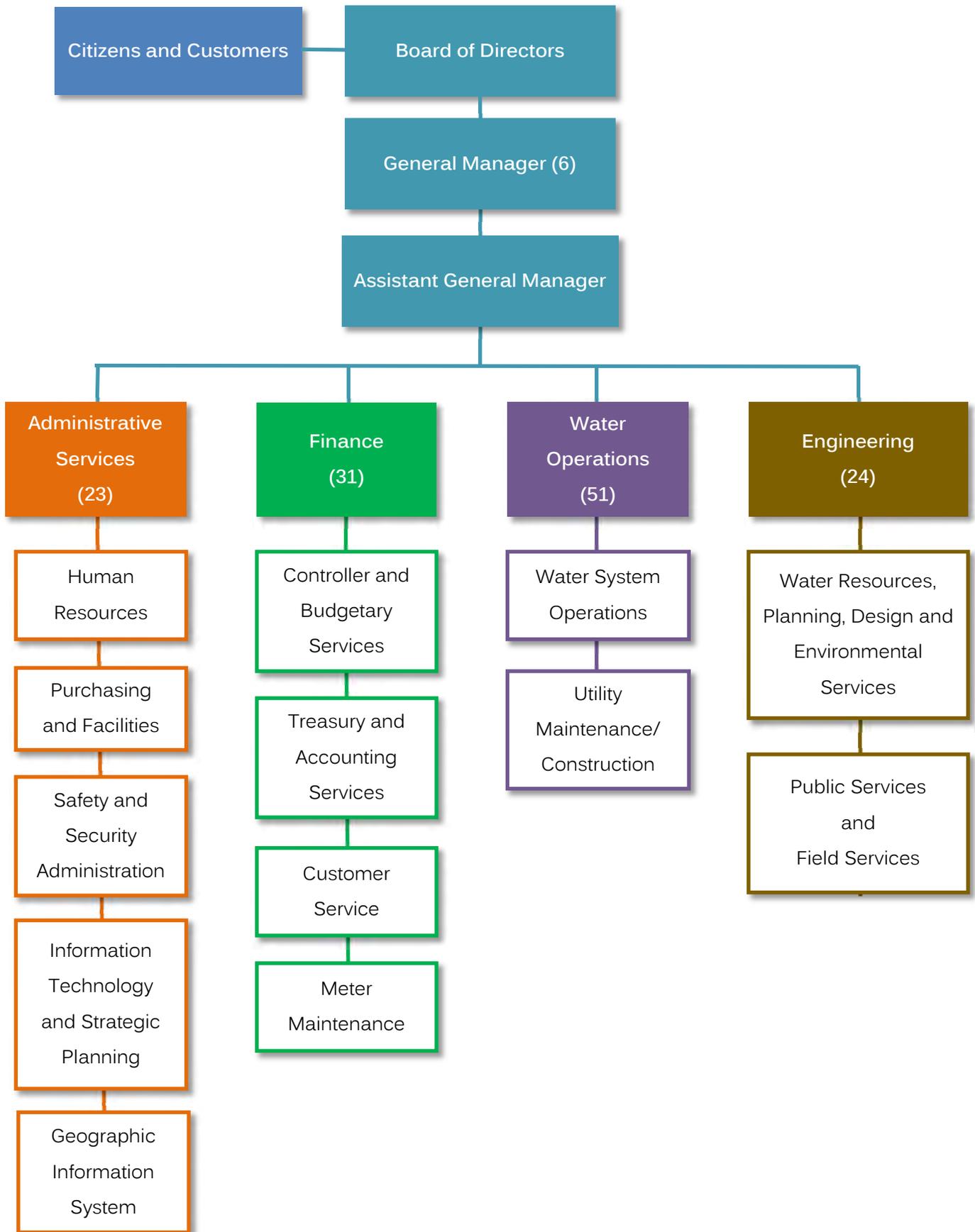
The London Group Realty Advisors have projected that the housing units in the District's service area will consist of low density townhomes and multi-plexes. The average residential sales price in South San Diego County has increased from \$398,174 in 2009 to \$686,183 in 2015.

Otay Water District Demographics (2016)	
Population	243,916
Persons/Household	3.46
Ethnic/Racial makeup	
Hispanic	44.3%
Non-Hispanic White	9.0%
Asian	17.2%
Other	15.1%
Median Age	35.8
Percentage with 4 year degree or higher	33.14%
Average Household Income	\$ 102,299
Median Household Income	\$ 85,663

Source: SANDAG, The London Group Realty Advisors, Claritas Demographics

# ORGANIZATION CHART

DISTRICT POSITION COUNT— (135 POSITIONS)



## CIP BUDGET CALENDAR

Each year, the Engineering Department prepares budget instructions for distribution to the departments. These instructions give direction and deadlines for each phase of the CIP budgeting process. The CIP Budget Process is explained on [pages 22 and 23](#).

January	February-March	April	May-June	July-January
<p>1/11/16 Budget workbooks and instructions for the Operating and Capital Budget are distributed to departments</p> <p>1/11/16-2/19/16 Departments begin CIP Budget Process which includes:</p> <ul style="list-style-type: none"> <li>• Review existing FY 2015 CIP Projects.</li> <li>• Remove any CIPs that are complete or will not be budgeted in the CIP budget the next six-years.</li> <li>• Estimate the total project-to-date expenditures through 6/30/15 for each CIP.</li> <li>• Adjust the annual amount for the remaining CIPs and include justifications for each year's changes.</li> <li>• Develop CIP project cost and schedules</li> <li>• Submit new CIP projects to Engineering for consideration.</li> </ul>	<p>2/29/16 Engineering Department reviews all CIP budget requests with Assistant General Manager and adjusts, if necessary</p> <p>3/02/16 Engineering reviews and prepares CIP budget and submits to finance for review and to incorporate into rate model to determine proposed rates</p> <p>03/09/16 Finance to have second review of CIP Budget with AGM and Engineering</p> <p>3/17/16 CIP budget presented to the General Manager for review and comments</p>	<p>4/26/16 General Manager performs preliminary review of budget.</p>	<p>5/7/16 Review assumptions and rates with Chiefs, Assistant General Manager, and General Manager</p> <p>05/23/16 Board Meeting – approval of the FY 2017-2022 Capital Improvement Program Budget and the FY 2016-2017 Operating and Capital Budget</p> <p>5/23/16 Board gave direction to staff to mail rate notices to customers</p>	<p>7/9/16-8/4/16 Rate increase message inserted with water and sewer billing</p> <p>1/1/17 Water and Sewer Rate Increase</p>

## CIP BUDGET PROCESS

The District has integrated the Capital Improvement Program (CIP) Budget and the Operating Budget. Appropriate budget amounts are determined by using historical data of operations, growth, developers' input, SANDAG projections, and the economic outlook. Additionally, these budgets are developed based on the District's Water Resources Master Plan and the Strategic Plan, both long-range planning tools.

To assure reliable, high-quality service to the growing customer base, the District has committed to a number of long-range strategies that drive the budgeting process. The strategies and assumptions used to develop the District's integrated budget are:

- An average projected long-term growth rate of 1.4%
- Pass-through rate increases for costs imposed on the District by the wholesale water providers.
- Accurate projection of capital budget needs including replacement needs.
- Reserve funding in accordance with the Reserve Policy to meet future growth demands.
- Funding of the Strategic Plan initiatives categorized into the Balanced Scorecard perspectives.
- Avoidance of rate spikes by leveling rate increases over a six-year period.

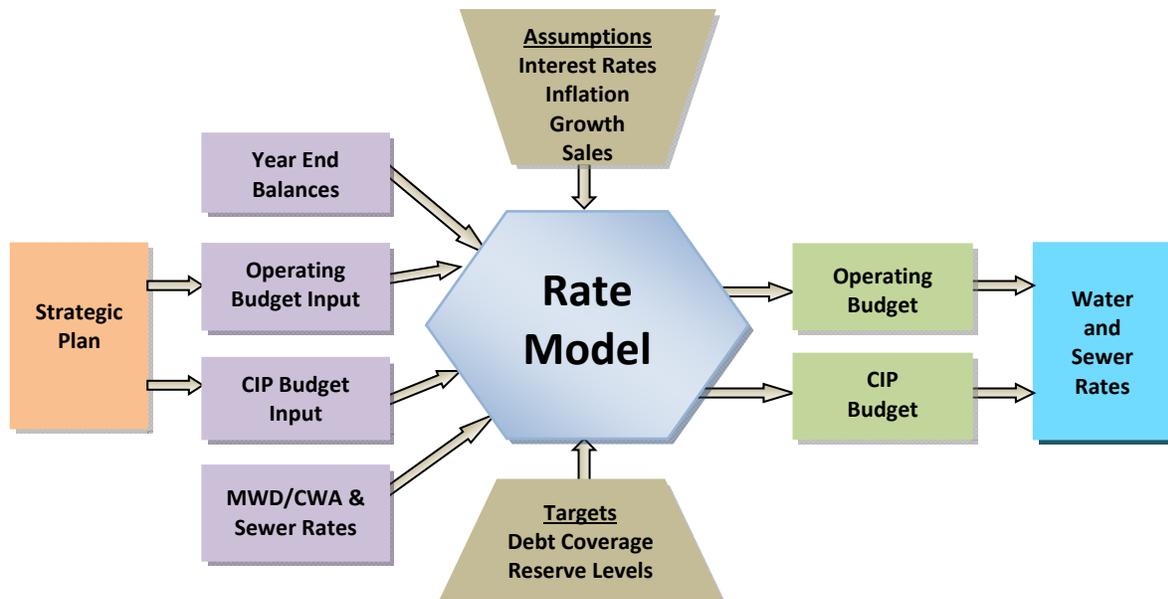
In January, the Engineering Department (Engineering) issues budget instructions for the CIP budget process. The project manager use the CIP Budget module system to review and estimate project expenditures to the end of the fiscal year. Projects may have been added, deleted or modified due to increased costs, changes in the scope of work, unanticipated events or emergencies. The CIP Budget Process ensures that all projects are reviewed and updated to reflect any changes and are included in the District's Rate Model and Financial Forecast.

Engineering reviews each project budget for accuracy, ensures that projects are categorized into the appropriate project types and funding sources, and then prioritizes projects based on need and timing. Projects are also reviewed to see if any grant funding is available and if so, estimated amounts are included as a funding source to these projects.

In March, Engineering compiles the Preliminary CIP Budget and submits the consolidated CIP list to the Assistant General Manager and the General Manager for review and comments. Engineering also updates the five-year projection of CIP expenditures and provides it to the Finance Department (Finance) to incorporate into the District's Rate Model to determine proposed rates.

## CIP BUDGET PROCESS

Finance inputs the operating revenues and expenditures, CIP expenditures, reserve funding, and reserve levels into the District's Rate Model.



Inflators for cost and volume changes are input into the Rate Model and cost and rates are calculated for the current fiscal year plus five subsequent years. Using this comprehensive modeling tool, the District is able to smooth future rate increases, determine when debt should be issued, and maintain all of the reserve levels in accordance with its Reserve Policy. The Reserve Policy No. 25 can be located within the [District's Code of Ordinance](#).

The District presents the Strategic Plan to the Board of Directors at a special board meeting in May where the District presents the Strategic Plan and the Preliminary Operating and Capital Budgets for adoption. The adoption of the Strategic Plan and the Operating and Capital Budgets on an annual basis gives the District its direction for the following fiscal year.

The District is accounted for and budgeted as an enterprise fund and conforms to the guidelines of generally accepted accounting principles (GAAP). The General Manager has the authority to transfer appropriations within the budget allocations or may request that the Board of Directors increase the current budgeted funds. The Operating and Capital Budgets are intended as a financial guide and may be modified by the Board of Directors during the 2017 fiscal year.

RESOLUTION NO. 4302

A RESOLUTION OF THE BOARD OF DIRECTORS OF  
OTAY WATER DISTRICT ADOPTING THE  
FISCAL YEAR 2016-2017  
OPERATING AND CAPITAL BUDGET; AND THE JOB  
CLASSIFICATION AND SALARY SCHEDULE

WHEREAS, the Otay Water District Board of Directors have been presented with a budget (Exhibit 1) for the operation of the Otay Water District for Fiscal Year 2016-2017; and

WHEREAS, the Fiscal Year 2016-2017 Operating and Capital Budget, has been reviewed and considered by the Board;

WHEREAS, it is in the interest of the District to adopt a budget for said year;

WHEREAS, in connection with the adoption of the budget, the Board is also being presented with a listing of job classifications and salary schedule (Exhibit 2) for its consideration, in order to comply with California Code of Regulations Section 570.5,

NOW, THEREFORE, BE IT RESOLVED, DETERMINED AND ORDERED by the Board of Directors of the Otay Water District that the Operating and Capital Budget for the operation of the District, incorporated herein by reference, is hereby adopted as the District's budget for Fiscal Year 2016-2017.

BE IT FURTHER RESOLVED that the Board hereby approves and adopts the salary schedule included with the budget and, consistent with his authority over employee compensation under

both State law and the District's Code of Ordinances, authorizes the General Manager to update the salary schedule whenever necessary to reflect changes made within his authority.

PASSED, APPROVED AND ADOPTED by the Board of Directors of Otay Water District at a board meeting held this 23<sup>rd</sup> day of May 2016, by the following vote:

Ayes: Directors Croucher, Lopez and Smith  
Noes: None  
Abstain: Director Robak  
Absent: Director Thompson

  
Vice President

ATTEST:

  
District Secretary

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## CAPITAL IMPROVEMENT PROGRAM

The District provides water service to a population of approximately 220,000 which is expected to ultimately increase to 308,000 by the year 2050. This growth as well as the maintenance of existing assets requires long-term capital planning. The process is dynamic, due to the evolving needs of the community, the water supply issues, and changing regulations. As such, capital planning is part of the District's overall strategic planning. The capital planning process involves identifying current needs, future needs, and prioritizing them based on certain operating assumptions. The primary objective of this planning effort is to support an orderly and efficient program of expansion, new water supply, replacement, and betterment, while maintaining a stable long-range financial plan.

To accommodate growth requires that the District invest \$283 million in capital assets through ultimate build-out. The Fiscal Year 2017 Capital Budget is \$10.7 million and the six-year Capital Improvement Program (CIP) totals \$89.8 million. A separate CIP Budget document contains the descriptions, justifications, expenditures, and funding for all the identified projects to ultimate build-out.

### **ASSUMPTIONS AND CRITERIA**

The CIP is developed based on the District's Water Resources Master Plan, incorporating historical data, growth, developers' input, SANDAG projections, and long-term economic outlook.

The Water Resources Master Plan was built using several major assumptions and design criteria as follows:

1. Utilizing historical water demands for each land use type in the District to calculate future demands.
2. Using maximum day peaking factors that vary with demand level.
3. Utilizing land use as planned by the City of Chula Vista.
4. Providing ten days of emergency water supply through a maximum of five days in covered reservoirs and a minimum of five days from interconnections with adjacent agencies.
5. Inclusion of emergency operational storage to meet the five-day covered storage requirement into the ten-day outage supply requirement.

### **CIP JUSTIFICATION AND IMPACT ON OPERATING BUDGET**

The justification for each project is determined by whether it is required due to growth (Expansion), new water sources (New Supply), improvements or upgrades (Betterment), or to replace an existing asset (Replacement). As these projects are completed and placed into service, there may be an impact on the Operating Budget by increasing costs in the areas of maintenance, energy, or chemicals as shown on the justification and impact pages in this section.

# CAPITAL IMPROVEMENT PROGRAM

## **CAPITAL PURCHASES AND FACILITIES**

All capital expenditures are in the CIP. This includes capital facilities and capital purchases. Capital purchases are non-recurring operating expenditures for assets that cost more than \$10,000 each and have an estimated useful life of two years or more. The Capital Purchase Projects include Vehicles, Office Equipment, Furniture, and Field Equipment purchases. The details of these purchases can be found on [page 43](#). Capital Facility Projects are items that exceed \$10,000 or \$20,000 for infrastructure related items (as defined under Capital Equipment on [page 272](#) of the Glossary) and have a useful life of at least two years.

The CIP projects are identified and are prioritized based on the following criteria:

1. Safety, restoration of service, immediate obligation, Board directed, or critical system need.
2. System upgrades or requirements to maintain system reliability in the next few fiscal years.
3. Need to meet the future growth of the system.
4. Project requirement may be reduced in capacity or may have low probability of need in the future.

The following are the four categories of CIP projects:

### **EXPANSION**

Facilities required to support new or future users are funded from capacity fees or user rates.

### **BETTERMENT**

Facilities required because of inadequate capacity or new requirements that benefit existing users are funded from availability, betterment fees, or rates.

### **REPLACEMENT**

Facilities required to renew or replace existing facilities that have deteriorated or have exceeded their useful life are funded from user rates.

### **NEW WATER SUPPLY**

Facilities required to support new sources of water are funded from new supply fees or user rates.

# MAJOR CIP PROJECTS

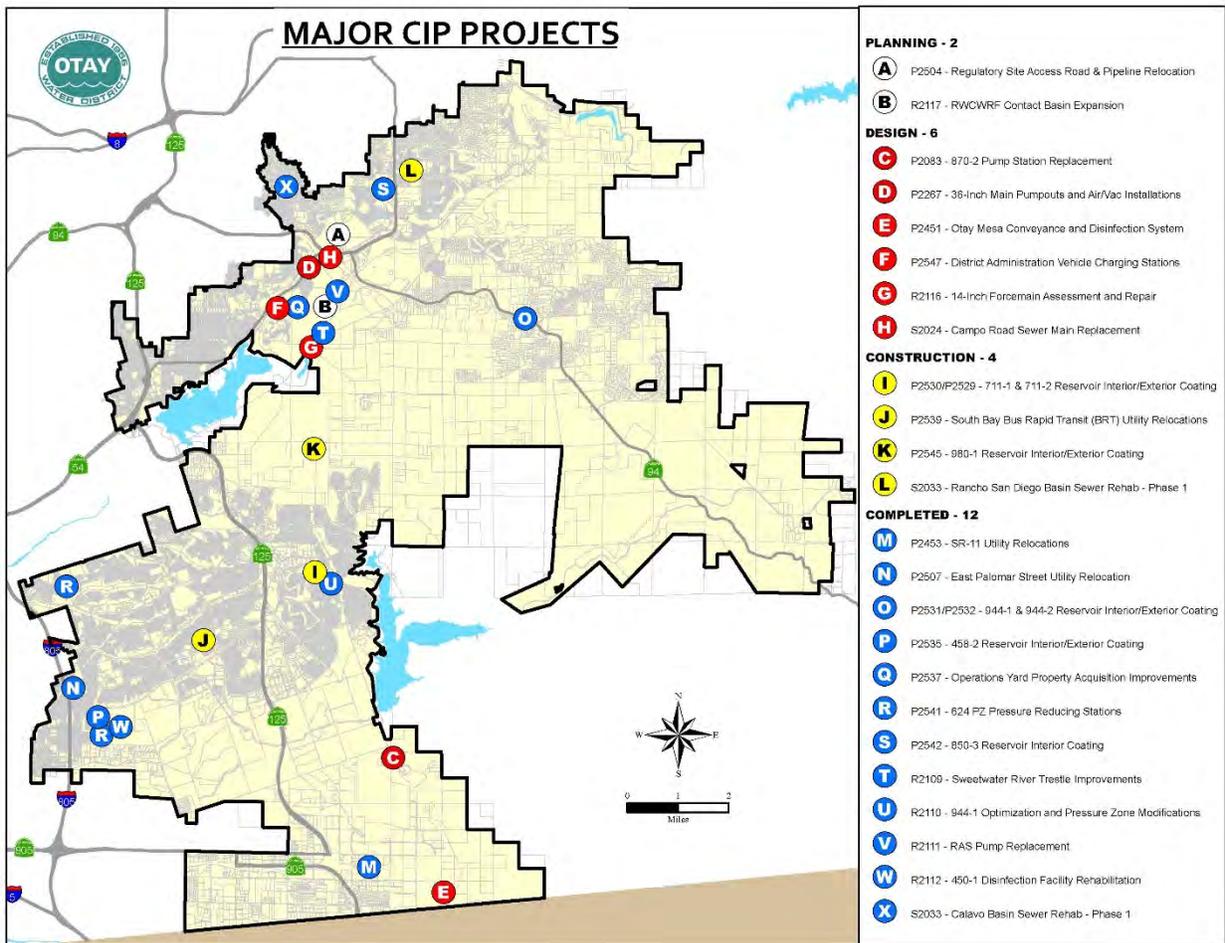
## CAPITAL IMPROVEMENT PROJECTS

The Fiscal Year 2017 CIP Budget contains 107 projects. The cost of the work planned for 89 of these projects fall within Fiscal Year 2017 and total \$10.7 million. Of the 89 projects planned for Fiscal Year 2017, three are designated as a reimbursable project with an estimated cost totaling \$14,000. These projects are built by developers and reimbursed by the District.

The following shows how the \$10.7 million of projects are broken down into four categories:

- 1. Capital facility projects                      \$ 3.8 million
- 2. Replacement or renewal projects        \$ 5.9 million
- 3. Capital purchase projects                 \$ 1 million
- 4. Developer reimbursement projects    \$ 14 thousand

The Six-Year CIP and Fiscal Year 2017 Capital Budget are consistent with the District's Water Resources Master Plan, current capacity fees, and the District's strategic financial objectives.



## CIP PROJECTS IN CONSTRUCTION

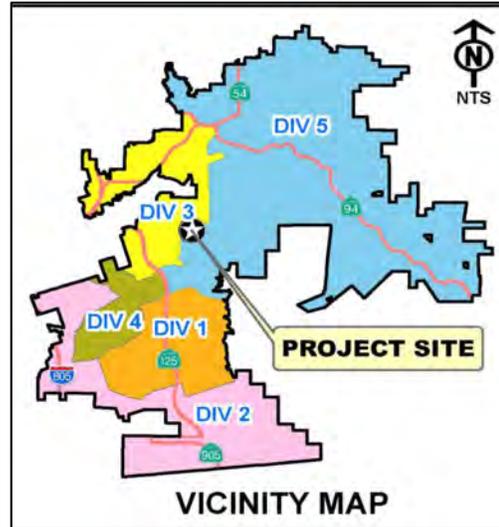
**PROJECT:** 980-1 Reservoir Interior/Exterior Coating and Upgrades (P2545)

**LOCATION:** North End of Salt Creek Golf Course, Hunte Parkway, Chula Vista

**DIRECTOR DIVISION:** 5

**PROJECT DESCRIPTION:**

- Remove and Replace Deteriorating Reservoir Coatings
- Structural Modifications to Increase Service Life
- \$1.50M Budget
- Start: February 2016
- Estimated Completion: August 2016



980-1 Reservoir (5.0 MG) – Exterior Containment and Sandblasting

## CIP PROJECTS IN CONSTRUCTION

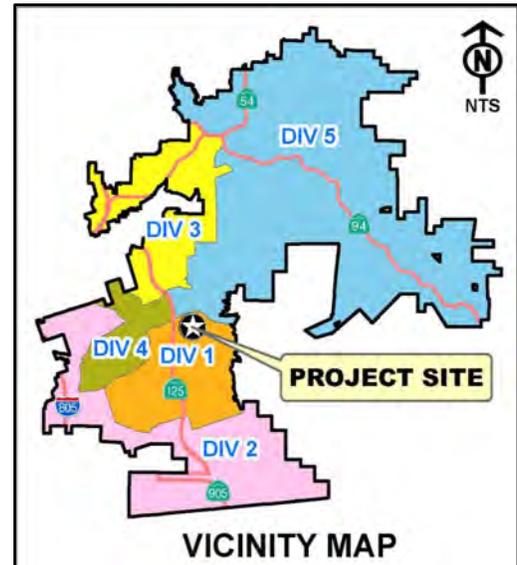
**PROJECT:** 711-1 and 711-2 Reservoir  
Interior/Exterior Coating and Upgrades  
(P2545)

**LOCATION:** Park Meadows Road, Chula Vista.  
Adjacent to East Lake County Club  
Golf Course

**DIRECTOR DIVISION:** 1

### **PROJECT DESCRIPTION:**

- Remove and Replace Deteriorating Reservoir Coatings
- Structural modifications to increase service life
- \$1.88M Budget
- Start: November 2015
- Estimated Completion: September 2016



711-2 Reservoir (2.3 MG) – Exterior Scaffold Installation

## CIP PROJECTS IN CONSTRUCTION

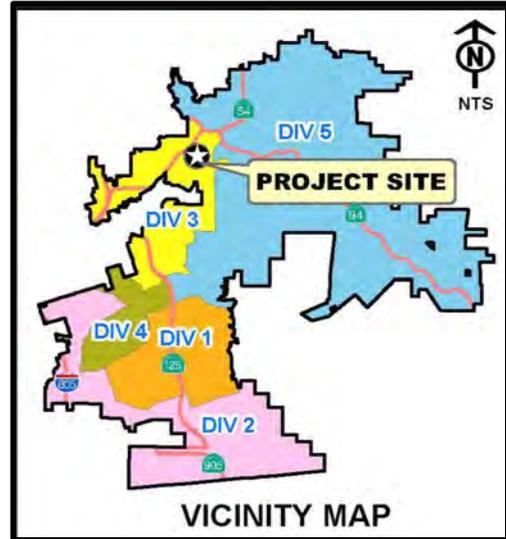
**PROJECT:** Operations Yard Property Acquisition Improvements (P2537)

**LOCATION:** Sweetwater Springs Boulevard, Spring Valley. Adjacent to District Operations Yard

**DIRECTOR DIVISION:** 3

### **PROJECT DESCRIPTION:**

- Provide parking to separate employee vehicles from District equipment
- Will serve as emergency staging area
- \$0.78M Budget
- Start: January 2016
- Estimated Completion: June 2016



Operations Yard Property Acquisition Improvements – Asphalt Concrete Paving

## CIP PROJECTS IN CONSTRUCTION

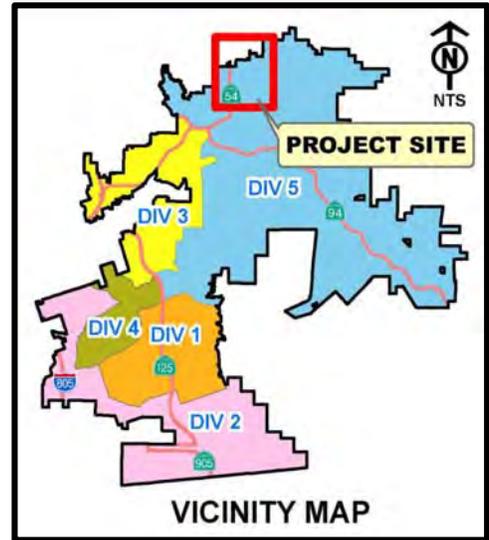
**PROJECT:** Rancho San Diego Basin Sewer Rehabilitation – Phase I (S2033-003103)

**LOCATION:** 14 locations including Hillsdale Road, Donahue Drive, Juliana Street, Vista Grande Road, and Sundale Road.

**DIRECTOR DIVISION:** 5

### **PROJECT DESCRIPTION:**

- Sewer system repairs at 14 locations
- 3,250 LF of 8-inch sewer
- 4 new sewer manholes
- \$3.00M Budget
- Start: March 2016
- Estimated Completion: November 2016



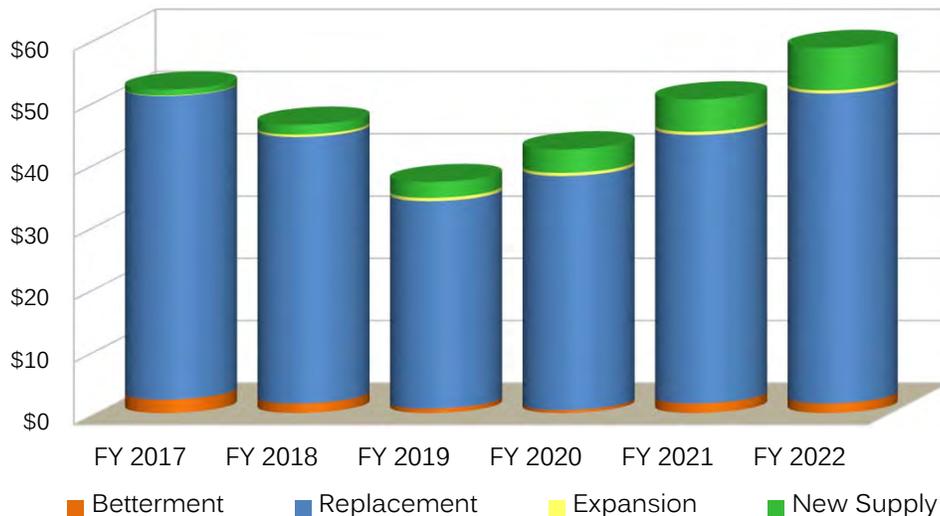
Trench Restoration in Singing Hills Mobile Estates Easement

## CIP RESERVE FUNDS

The CIP Reserve Funds presentation, shown on the following pages, is designed to provide an understanding of how the funding of CIPs is expected to financially influence the District over the next six years. The financial impacts are based on CIPs and their funding sources, including fund transfers in accordance with the District's Reserve Policy, and planned debt issuances. This data is captured in the District's Rate Model on an annual basis in order to make these projections.

	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total
<b>CIP Reserve Funds, in Thousands (\$)</b>							
<b>Beginning Balance</b>	\$ 56,804	\$ 51,914	\$ 46,556	\$ 38,859	\$ 45,067	\$ 51,367	\$ 56,804
<b>Sources</b>							
Capacity Fees	3,176	6,004	8,881	11,292	12,781	14,361	56,495
Debt financing <sup>(1)</sup>	-	3,000	-	-	-	-	3,000
Grants	255	505	500	500	500	133	2,393
Interest	458	477	495	510	641	808	3,389
Temporary Meters	739	744	750	759	770	781	4,543
Availability (Betterment Portion)	484	503	522	542	563	585	3,199
New Supply Fee	346	661	986	1,227	1,397	1,565	6,182
COPS 2010B Reimbursement	828	828	828	828	828	828	4,968
Transfer from General Fund	8,060	10,617	11,075	10,897	10,788	10,571	62,008
Interfund Transfers	33	39	47	51	55	58	283
<b>Total Sources</b>	<b>14,379</b>	<b>23,378</b>	<b>24,084</b>	<b>26,606</b>	<b>28,323</b>	<b>29,690</b>	<b>146,460</b>
<b>Uses</b>							
CIP Projects	10,733	20,023	22,874	11,371	12,995	11,832	89,828
Debt Service	7,288	7,459	7,640	7,747	7,736	7,828	45,698
Developer Services	1,248	1,254	1,267	1,280	1,292	1,305	7,646
<b>Total Uses</b>	<b>19,269</b>	<b>28,736</b>	<b>31,781</b>	<b>20,398</b>	<b>22,023</b>	<b>20,965</b>	<b>143,172</b>
<b>Net Sources (Uses)</b>	<b>(4,890)</b>	<b>(5,358)</b>	<b>(7,697)</b>	<b>6,208</b>	<b>6,300</b>	<b>8,725</b>	<b>3,288</b>
<b>Ending Balance</b>	<b>\$ 51,914</b>	<b>\$ 46,556</b>	<b>\$ 38,859</b>	<b>\$ 45,067</b>	<b>\$ 51,367</b>	<b>\$ 60,092</b>	<b>\$ 60,092</b>

### CIP RESERVE FUND BALANCES, IN THOUSANDS (\$)

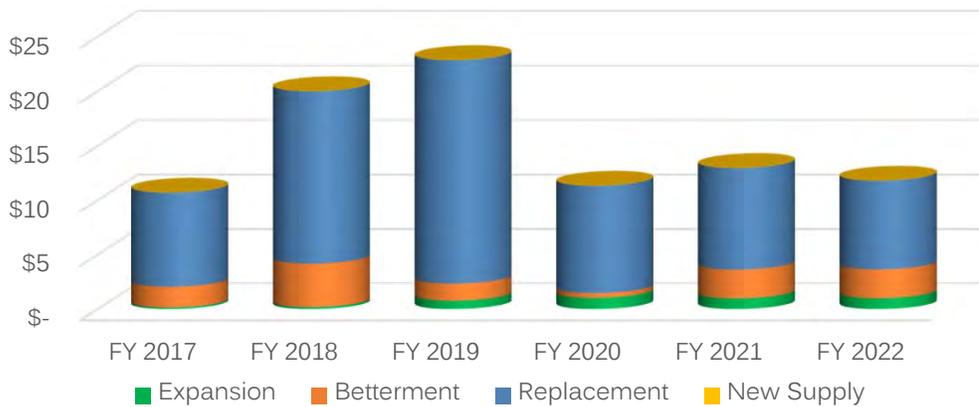


<sup>(1)</sup> Proposed State Revolving Loan Funds for Campo Road Sewer Main Replacement

## SIX-YEAR CIP PROJECTS BY FUNDING SOURCE (\$1,000s)

	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total
<b>Funding Source</b>	<b>CIP Funding Source</b>						
Expansion	\$ 157	\$ 186	\$ 775	\$ 1,035	\$ 985	\$ 1,000	\$ 4,138
Betterment	1,899	4,002	1,569	441	2,651	2,651	13,213
Replacement	8,657	15,815	20,510	9,875	9,339	8,161	72,357
New Supply	20	20	20	20	20	20	120
<b>Total</b>	<b>\$ 10,733</b>	<b>\$ 20,023</b>	<b>\$ 22,874</b>	<b>\$ 11,371</b>	<b>\$ 12,995</b>	<b>\$ 11,832</b>	<b>\$ 89,828</b>

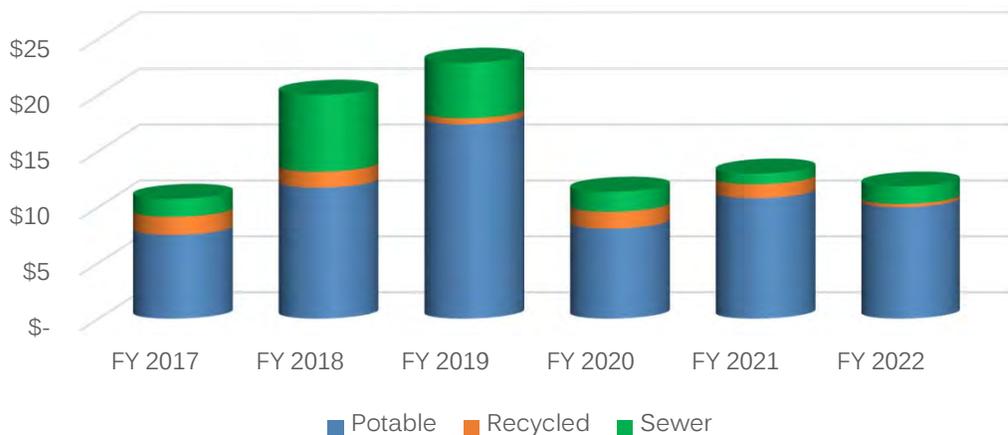
### SIX-YEAR CIP PROJECTS BY FUNDING SOURCE, IN THOUSANDS (\$)



## SIX-YEAR CIP PROJECTS BY FUND (\$1000s)

	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total
<b>Fund</b>	<b>CIP by Fund</b>						
Potable	\$ 7,503	\$ 11,739	\$ 17,385	\$ 8,064	\$ 10,794	\$ 9,981	\$ 65,466
Recycled	1,619	1,423	550	1,513	1,260	300	6,665
Sewer	1,611	6,861	4,939	1,794	941	1,551	17,697
<b>Total</b>	<b>\$ 10,733</b>	<b>\$ 20,023</b>	<b>\$ 22,874</b>	<b>\$ 11,371</b>	<b>\$ 12,995</b>	<b>\$ 11,832</b>	<b>\$ 89,828</b>

### SIX-YEAR CIP PROJECTS BY FUND, IN THOUSANDS (\$)



## SIX-YEAR CIP PROJECTS BY FUNDING SOURCE (\$1000s)

### EXPANSION

CIP No	CIP Project Title	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total
P2040	Res - 1655-1 Reservoir 0.5 MG	\$ 20	\$ 80	\$ 450	\$ 1,025	\$ 825	\$ 500	\$ 2,900
P2325	PL-10" to 12" Oversize, 1296 Zone, PB Road-Rolling Hills Hydro	3	-	-	-	-	-	3
P2403	PL - 12-inch, 624 Zone, Heritage Road - Olympic/Otay Valley	-	-	-	-	50	500	550
P2466	Regional Training Facility	2	-	-	-	-	-	2
P2486	Asset Management - Info Master Water Implementation	10	8	-	-	-	-	18
P2494	Multiple Species Conservation Plan	48	20	-	-	-	-	68
P2547	District Administration Vehicle Charging Stations	34	8	-	-	-	-	42
R2077	RecPL - 24-Inch, 860 Zone, Alta Road - Alta Gate/Airway	20	20	-	-	-	-	40
R2079	RecPL - 6-Inch, 450 Zone, Otay Valley Road - Otay	10	10	10	10	110	-	150
R2084	RecPL - 20-Inch, 680 Zone, Village 2 - Heritage/La Media	10	40	315	-	-	-	365
<b>Total Expansion</b>		<b>\$ 157</b>	<b>\$ 186</b>	<b>\$ 775</b>	<b>\$ 1,035</b>	<b>\$ 985</b>	<b>\$ 1,000</b>	<b>\$ 4,138</b>

Potable	\$ 117	\$ 116	\$ 450	\$ 1,025	\$ 875	\$ 1,000	\$ 3,583
Recycled	40	70	325	10	110	-	555
Sewer	-	-	-	-	-	-	-
<b>Total Expansion</b>	<b>\$ 157</b>	<b>\$ 186</b>	<b>\$ 775</b>	<b>\$ 1,035</b>	<b>\$ 985</b>	<b>\$ 1,000</b>	<b>\$ 4,138</b>

### BETTERMENT

CIP No	CIP Project Title	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total
P2267	36-Inch Main Pumpouts and Air/Vacuum Ventilation Installations	\$ 220	\$ 55	\$ -	\$ -	\$ -	\$ -	\$ 275
P2400	PL - 20-Inch Pipeline Replacement, 711 Zone, Otay Lakes Road - at Santa Paula	-	-	-	60	140	600	800
P2405	PL - 624/340 PRS, Paseo Ranchero and Otay Valley Road	5	5	5	5	50	500	570
P2451	Otay Mesa Desalination Conveyance and Disinfection System	30	30	30	30	30	30	180
P2466	Regional Training Facility	4	-	-	-	-	-	4
P2486	Asset Management - Info Master Water Implementation	15	12	-	-	-	-	27
P2504	Regulatory Site Access Road and Pipeline Relocation	10	165	60	50	-	-	285
P2537	Operations Yard Property Acquisition Improvements	10	-	-	-	-	-	10
P2541	624 Pressure Zone PRSs	10	-	-	-	-	-	10
P2547	District Administration Vehicle Charging Stations	51	12	-	-	-	-	63
P2551	Blossom Lane Helix WD and Otay WD Interconnection	20	-	-	-	-	-	20
P2552	South Barcelona Helix WD and Otay WD Interconnection	20	-	-	-	-	-	20
P2578	PS - 711-2 (PS 711-1 Replacement and Expansion) - 14,000 gpm	-	-	-	140	1,280	1,220	2,640
R2110	RecPS - 944-1 Optimization and Pressure Zone Modifications	5	67	-	-	-	-	72
R2116	RecPL - 14-Inch, 927 Zone, Force Main Improvements	1,000	900	10	-	-	-	1,910
R2117	RWCWRF Disinfection System Improvements	10	50	50	150	1,000	150	1,410
R2118	Steele Canyon Sewer PS Large Solids Handling Improvements	68	-	-	-	-	-	68
R2119	RWCWRF Automation & Security Upgrades	95	50	130	-	-	-	275
R2120	RWCWRF Filtered Water Storage Tank Improvements	250	245	-	-	-	-	495
R2122	Emergency Recycled Water Fire Hydrant Installations	15	-	-	-	-	-	15
R2123	Repurpose Otay Mesa Recycled Water Lines	35	5	5	5	150	150	350
S2024	Campo Road Sewer Main Replacement	25	2,375	1,250	-	-	-	3,650
S2043	RWCWRF Sludge Handling System	1	1	1	1	1	1	6
S2047	Asset Management - Info Master Sewer Implementation	-	30	28	-	-	-	58
<b>Total Betterment</b>		<b>\$ 1,899</b>	<b>\$ 4,002</b>	<b>\$ 1,569</b>	<b>\$ 441</b>	<b>\$ 2,651</b>	<b>\$ 2,651</b>	<b>\$ 13,213</b>

Potable	\$ 395	\$ 279	\$ 95	\$ 285	\$ 1,500	\$ 2,350	\$ 4,904
Recycled	1,478	1,317	195	155	1,150	300	4,595
Sewer	26	2,406	1,279	1	1	1	3,714
<b>Total Betterment</b>	<b>\$ 1,899</b>	<b>\$ 4,002</b>	<b>\$ 1,569</b>	<b>\$ 441</b>	<b>\$ 2,651</b>	<b>\$ 2,651</b>	<b>\$ 13,213</b>

## SIX-YEAR CIP PROJECTS BY FUNDING SOURCE (\$1,000s)

### REPLACEMENT

CIP No	CIP Project Title	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total
P2083	PS - 870-2 Pump Station Replacement	\$ 390	\$ 3,500	\$ 10,800	\$ 500	\$ 50	\$ 50	\$ 15,290
P2174	PS - 1090-1 Pump Station Replacement (400 gpm)	1	150	200	1,149	-	-	1,500
P2282	Vehicle Capital Purchases	197	290	240	187	236	253	1,403
P2285	Office Equipment and Furniture Capital Purchases	15	15	15	8	-	-	53
P2286	Field Equipment Capital Purchases	38	105	50	55	-	-	248
P2366	APCD Engine Replacements and Retrofits	820	-	-	-	-	-	820
P2382	Safety and Security Improvements	250	-	-	-	-	-	250
P2400	PL - 20-Inch Pipeline Replacement, 711 Zone, Otay Lakes Road - at Santa Paula	-	-	-	90	210	900	1,200
P2453	SR-11 Utility Relocations	250	500	500	500	500	133	2,383
P2460	I.D. 7 Trestle and Pipeline Demolition	50	5	5	5	530	-	595
P2485	SCADA Communication System and Software Replacement	85	85	85	85	24	-	364
P2493	624-2 Reservoir Interior/Exterior Coating	60	60	-	-	-	-	120
P2496	Otay Lakes Road Utility Relocations	5	20	-	-	-	-	25
P2504	Regulatory Site Access Road and Pipeline Relocation	10	165	60	50	-	-	285
P2507	East Palomar Street Utility Relocation	120	100	-	-	-	-	220
P2508	Pipeline Cathodic Protection Replacement Program	300	100	96	-	-	-	496
P2516	PL - 12-Inch, 640 Zone, Jamacha Road - Darby/Osage	-	-	-	75	100	625	800
P2518	803-3 Reservoir Interior/Exterior Coating	40	20	-	-	-	-	60
P2519	832-2 Reservoir Interior/Exterior Coating	65	20	-	-	-	-	85
P2520	Motorola Mobile Radio Upgrade	30	-	-	-	-	-	30
P2521	Large Meter Vault Upgrade Program	100	100	100	100	-	-	400
P2529	711-2 Reservoir Interior & Exterior Coating	360	25	50	-	-	-	435
P2530	711-1 Reservoir Interior & Exterior Coating	90	50	50	-	-	-	190
P2531	944-1 Reservoir Interior & Exterior Coating	50	50	-	-	-	-	100
P2532	944-2 Reservoir Interior & Exterior Coating	50	50	-	-	-	-	100
P2533	1200-1 Reservoir Interior & Exterior Coating	10	700	50	50	-	-	810
P2534	978-1 Reservoir Interior & Exterior Coating	615	50	50	-	-	-	715
P2535	458-2 Reservoir Interior & Exterior Coating & Upgrades	50	50	-	-	-	-	100
P2538	Administration and Operations Building Fire Sprinkler Replacement Program	10	-	-	-	-	-	10
P2539	South Bay Bus Rapid Transit (BRT) Utility Relocations	100	100	40	-	-	-	240
P2542	850-3 Reservoir Interior Coating	50	50	-	-	-	-	100
P2543	850-1 Reservoir Interior/Exterior Coating	10	645	120	50	50	-	875
P2544	850-2 Reservoir Interior/Exterior Coating	835	135	50	50	-	-	1,070
P2545	980-1 Reservoir Interior Exterior Coating	330	50	50	-	-	-	430
P2546	980-2 Reservoir Interior/Exterior Coating	-	20	1,330	50	50	-	1,450
P2550	Fuel Island Upgrade	112	-	-	-	-	-	112
P2553	Heritage Road Bridge Replacement and Utility Relocation	100	380	685	260	-	-	1,425
P2555	Administration and Operations Parking Lot Improvements	275	185	-	-	-	-	460
P2556	HWY 94 Upsized Utility Relocations at Melody Lane	1	99	-	-	-	-	100
P2557	520 Res Recirculation Pipeline Chemical Supply and Analyzer Feed Replacement Project	50	35	5	-	-	-	90
P2559	Pressure Vessel Repair and Replacement Program	65	125	125	125	125	55	620
P2561	Res - 711-3 Reservoir Cover/Liner Replacement	1	4	95	1,700	-	-	1,800
P2562	Res - 571-1 Reservoir Cover/Liner Replacement	90	2,500	5	5	-	-	2,600
P2563	Res - 870-1 Reservoir Cover/Liner Replacement	1	1	9	90	899	-	1,000
P2564	Administration Carpet Replacement Program	5	210	-	-	-	-	215
P2565	803-2 Reservoir Interior/Exterior Coating & Upgrades	-	-	20	820	50	50	940
P2566	520-2 Reservoir Interior/Exterior Coating & Upgrades	-	-	-	20	1,380	100	1,500
P2567	1004-2 Reservoir Interior/Exterior Coating & Upgrades	-	-	-	-	20	885	905
P2568	Technology Business Processes Improvement	100	-	-	-	-	-	100

## SIX YEAR CIP PROJECTS BY FUNDING SOURCE (\$1,000s)

### REPLACEMENT, CONTINUED

CIP No	CIP Project Title	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total
P2569	Metro Ethernet Implementation/ District Facilities - Pilot	\$ 45	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45
P2570	SCADA Equipment & Infrastructure Enhancement	100	100	100	-	-	-	300
P2571	Datacenter Network Enhancement & Replacement of	-	-	100	100	-	-	200
P2572	Enterprise Resource Planning (ERP) Replacement	-	-	-	-	250	250	500
P2573	PL - 12-Inch Pipeline Replacement, 803 Zone, Hillsdale Road	160	225	1,365	-	-	-	1,750
P2574	PL - 12-Inch and 14-inch Pipeline Replacement, 803 and 978 Zone,	50	100	275	400	1,925	-	2,750
P2578	PS - 711-2 (PS 711-1 Replacement and Expansion) - 14,000 gpm	-	-	-	210	1,920	1,830	3,960
P2579	Temporary Lower Otay Pump Station Improvements	140	-	-	-	-	-	140
P2584	Res - 657-1 and 657-2 Reservoir Demolitions	-	-	-	-	70	650	720
P2592	East H Street Bike Lane Utility Coordination	50	-	-	-	-	-	50
P2593	458-1 Reservoir Interior/Exterior Coating & Upgrades	-	-	-	-	10	830	840
P2594	Large Meter Replacement	240	150	95	-	-	-	485
R2109	Sweetwater River Wooden Trestle Improvement for the Recycled	10	5	-	-	-	-	15
R2111	RWCWRF - RAS Pump Replacement	10	5	-	-	-	-	15
R2112	450-1 Disinfection Facility Rehabilitation	25	25	-	-	-	-	50
R2121	Res - 944-1 Reservoir Cover/Liner Replacement	1	1	30	1,348	-	-	1,380
R2124	RecPS - 927-1 Pump 5 Replacement	55	-	-	-	-	-	55
S2012	San Diego County Sanitation District Outfall and RSD Outfall	150	150	200	250	300	350	1,400
S2024	Campo Road Sewer Main Replacement	25	2,375	1,250	-	-	-	3,650
S2027	Rancho San Diego Pump Station Rehabilitation	50	1,200	1,200	783	-	-	3,233
S2033	Sewer System Rehabilitation	200	-	-	-	-	-	200
S2044	Trenchless Sewer Rehabilitation	600	50	-	-	-	-	650
S2045	Fuerte Drive Sewer Relocation	190	10	-	-	-	-	200
S2046	RWCWRF - Aeration Panels Replacement	250	100	100	-	-	-	450
S2048	Hillsdale Road Sewer Repairs	100	390	10	-	-	-	500
S2049	Calavo Basin Sewer Rehabilitation - Phase 2	20	130	800	50	-	-	1,000
S2050	Rancho San Diego Basin Sewer Rehabilitation - Phase 2	-	-	-	-	50	250	300
S2051	RWCWRF - Headworks Improvements	-	50	100	600	-	-	750
S2052	RWCWRF - Access Roads Repaving	-	-	-	50	400	300	750
S2053	RWCWRF - Sedimentation Basins Refurbishment	-	-	-	60	140	400	600
S2054	Calavo Basin Sewer Rehabilitation - Phase 3	-	-	-	-	50	250	300
<b>Total Replacement</b>		<b>\$ 8,657</b>	<b>\$ 15,815</b>	<b>\$ 20,510</b>	<b>\$ 9,875</b>	<b>\$ 9,339</b>	<b>\$ 8,161</b>	<b>\$ 72,357</b>

Potable	\$ 6,971	\$ 11,324	\$ 16,820	\$ 6,734	\$ 8,399	\$ 6,611	\$ 56,859
Recycled	101	36	30	1,348	-	-	1,515
Sewer	1,585	4,455	3,660	1,793	940	1,550	13,983
<b>Total Replacement</b>	<b>\$ 8,657</b>	<b>\$ 15,815</b>	<b>\$ 20,510</b>	<b>\$ 9,875</b>	<b>\$ 9,339</b>	<b>\$ 8,161</b>	<b>\$ 72,357</b>

### NEW SUPPLY

CIP No	CIP Project Title	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total
P2451	Otay Mesa Desalination Conveyance and Disinfection System	\$ 20	\$ 20	\$ 20	\$ 20	\$ 20	\$ 20	\$ 120
<b>Total New Supply</b>		<b>\$ 20</b>	<b>\$ 120</b>					
Potable		\$ 20	\$ 20	\$ 20	\$ 20	\$ 20	\$ 20	\$ 120
<b>Total New Supply</b>		<b>\$ 20</b>	<b>\$ 120</b>					

## SIX-YEAR CIP FUNDING BY CATEGORY (\$1,000s)

Category	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total
	CIP Category						
Capital Facility Projects	\$ 3,745	\$ 4,683	\$ 3,706	\$ 3,329	\$ 3,540	\$ 1,834	\$ 20,837
Replacement/Renewal Projects	5,904	14,691	16,970	5,517	3,049	105	46,236
Capital Purchase Projects	1,070	410	305	250	236	253	2,524
Developer Reimbursement Projects	14	139	315	-	-	-	468
<b>Total</b>	<b>\$10,733</b>	<b>\$20,023</b>	<b>\$22,874</b>	<b>\$11,371</b>	<b>\$12,995</b>	<b>\$11,832</b>	<b>\$ 89,828</b>

**SIX-YEAR CIP BY CATEGORY, IN THOUSANDS (\$)**



## SIX-YEAR CIP PROJECTS BY CATEGORY (\$1,000s)

The 2017 Fiscal Year CIP Budget contains 107 projects. The costs for the work planned for Fiscal Year 2017 are \$10.7 million. Of the 89 projects planned for Fiscal Year 2017, four are designated as reimbursable projects with an estimated cost of \$14,000. These reimbursable projects are built by a developer and reimbursed by the District.

### CAPITAL FACILITY PROJECTS

CIP No	Description	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total
P2040	Res - 1655-1 Reservoir 0.5 MG	\$ 20	\$ 80	\$ 450	\$ 1,025	\$ 825	\$ 500	\$ 2,900
P2267	36-Inch Main Pumpouts and Air/Vacuum Ventilation	220	55	-	-	-	-	275
P2382	Safety and Security Improvements	250	-	-	-	-	-	250
P2405	PL - 624/340 PRS, Paseo Ranchero and Otay Valley Road	5	5	5	5	50	500	570
P2451	Otay Mesa Desalination Conveyance and Disinfection	50	50	50	50	50	50	300
P2453	SR-11 Utility Relocations	250	500	500	500	500	133	2,383
P2460	I.D. 7 Trestle and Pipeline Demolition	50	5	5	5	530	-	595
P2466	Regional Training Facility	6	-	-	-	-	-	6
P2485	SCADA Communication System and Software Replacement	85	85	85	85	24	-	364
P2486	Asset Management - Info Master Water Implementation	25	20	-	-	-	-	45
P2494	Multiple Species Conservation Plan	48	20	-	-	-	-	68
P2496	Otay Lakes Road Utility Relocations	5	20	-	-	-	-	25
P2504	Regulatory Site Access Road and Pipeline Relocation	20	330	120	100	-	-	570
P2516	PL - 12-Inch, 640 Zone, Jamacha Road - Darby/Osage	-	-	-	75	100	625	800
P2520	Motorola Mobile Radio Upgrade	30	-	-	-	-	-	30
P2521	Large Meter Vault Upgrade Program	100	100	100	100	-	-	400
P2537	Operations Yard Property Acquisition Improvements	10	-	-	-	-	-	10
P2541	624 Pressure Zone PRSs	10	-	-	-	-	-	10
P2547	District Administration Vehicle Charging Stations	85	20	-	-	-	-	105
P2550	Fuel Island Upgrade	112	-	-	-	-	-	112
P2551	Blossom Lane Helix WD and Otay WD Interconnection	20	-	-	-	-	-	20
P2552	South Barcelona Helix WD and Otay WD Interconnection	20	-	-	-	-	-	20
P2553	Heritage Road Bridge Replacement and Utility Relocation	100	380	685	260	-	-	1,425
P2564	Administration Carpet Replacement Program	5	210	-	-	-	-	215
P2568	Technology Business Processes Improvement	100	-	-	-	-	-	100
P2569	Metro Ethernet Implementation/ District Facilities - Pilot	45	-	-	-	-	-	45
P2570	SCADA Equipment & Infrastructure Enhancement	100	100	100	-	-	-	300
P2571	Datacenter Network Enhancement & Replacement of Infrastructure Componets	-	-	100	100	-	-	200
P2572	Enterprise Resource Planning (ERP) Replacement	-	-	-	-	250	250	500
P2584	Res - 657-1 and 657-2 Reservoir Demolitions	-	-	-	-	70	650	720
R2077	RecPL - 24-Inch, 860 Zone, Alta Road - Alta Gate/Airway	20	20	-	-	-	-	40
R2079	RecPL - 6-Inch, 450 Zone, Otay Valley Road - Otay Valley/Entertainment	10	10	10	10	110	-	150
R2109	Sweetwater River Wooden Trestle Improvement for the Recycled Water Forcemain	10	5	-	-	-	-	15
R2110	RecPS - 944-1 Optimization and Pressure Zone	5	67	-	-	-	-	72
R2116	RecPL - 14-Inch, 927 Zone, Force Main Improvements	1,000	900	10	-	-	-	1,910
R2117	RWCWRF Disinfection System Improvements	10	50	50	150	1,000	150	1,410
R2118	Steele Canyon Sewer PS Large Solids Handling	68	-	-	-	-	-	68
R2119	RWCWRF Automation & Security Upgrades	95	50	130	-	-	-	275
R2120	RWCWRF Filtered Water Storage Tank Improvements	250	245	-	-	-	-	495
R2122	Emergency Recycled Water Fire Hydrant Installations	15	-	-	-	-	-	15

## SIX-YEAR CIP PROJECTS BY CATEGORY (\$1,000s)

CIP No	Description	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total
<b>CAPITAL FACILITY PROJECTS, CONTINUED</b>								
R2123	Repurpose Otay Mesa Recycled Water Lines	35	5	5	5	150	150	350
R2124	RecPS - 927-1 Pump 5 Replacement	55	-	-	-	-	-	55
S2012	San Diego County Sanitation District Outfall and RSD Outfall Replacement	150	150	200	250	300	350	1,400
S2027	Rancho San Diego Pump Station Rehabilitation	50	1,200	1,200	783	-	-	3,233
S2033	Sewer System Rehabilitation	200	-	-	-	-	-	200
S2043	RWCWRF Sludge Handling System	1	1	1	1	1	1	6
S2047	Asset Management - Info Master Sewer Implementation	-	30	28	-	-	-	58
<b>47</b>	<b>Total Capital Facility Projects</b>	<b>\$ 3,745</b>	<b>\$ 4,713</b>	<b>\$ 3,834</b>	<b>\$ 3,504</b>	<b>\$ 3,960</b>	<b>\$ 3,359</b>	<b>\$ 23,115</b>

### REPLACEMENT/RENEWAL PROJECTS

P2083	PS - 870-2 Pump Station Replacement	\$ 390	\$ 3,500	\$10,800	\$ 500	\$ 50	\$ 50	\$ 15,290
P2174	PS - 1090-1 Pump Station Replacement (400 gpm)	1	150	200	1,149	-	-	1,500
P2400	PL - 20-Inch Pipeline Replacement, 711 Zone, Otay Lakes Road - at Santa Paula	-	-	-	150	350	1,500	2,000
P2493	624-2 Reservoir Interior/Exterior Coating	60	60	-	-	-	-	120
P2507	East Palomar Street Utility Relocation	120	100	-	-	-	-	220
P2508	Pipeline Cathodic Protection Replacement Program	300	100	96	-	-	-	496
P2518	803-3 Reservoir Interior/Exterior Coating	40	20	-	-	-	-	60
P2519	832-2 Reservoir Interior/Exterior Coating	65	20	-	-	-	-	85
P2529	711-2 Reservoir Interior & Exterior Coating	360	25	50	-	-	-	435
P2530	711-1 Reservoir Interior & Exterior Coating	90	50	50	-	-	-	190
P2531	944-1 Reservoir Interior & Exterior Coating	50	50	-	-	-	-	100
P2532	944-2 Reservoir Interior & Exterior Coating	50	50	-	-	-	-	100
P2533	1200-1 Reservoir Interior & Exterior Coating	10	700	50	50	-	-	810
P2534	978-1 Reservoir Interior & Exterior Coating	615	50	50	-	-	-	715
P2535	458-2 Reservoir Interior & Exterior Coating & Upgrades	50	50	-	-	-	-	100
P2538	Administration and Operations Building Fire Sprinkler Replacement Program	10	-	-	-	-	-	10
P2539	South Bay Bus Rapid Transit (BRT) Utility Relocations	100	100	40	-	-	-	240
P2542	850-3 Reservoir Interior Coating	50	50	-	-	-	-	100
P2543	850-1 Reservoir Interior/Exterior Coating	10	645	120	50	50	-	875
P2544	850-2 Reservoir Interior/Exterior Coating	835	135	50	50	-	-	1,070
P2545	980-1 Reservoir Interior Exterior Coating	330	50	50	-	-	-	430
P2546	980-2 Reservoir Interior/Exterior Coating	-	20	1,330	50	50	-	1,450
P2555	Administration and Operations Parking Lot Improvements	275	185	-	-	-	-	460
P2557	520 Res Recirculation Pipeline Chemical Supply and Analyzer Feed Replacement Project	50	35	5	-	-	-	90
P2559	Pressure Vessel Repair and Replacement Program	65	125	125	125	125	55	620
P2561	Res - 711-3 Reservoir Cover/Liner Replacement	1	4	95	1,700	-	-	1,800
P2562	Res - 571-1 Reservoir Cover/Liner Replacement	90	2,500	5	5	-	-	2,600
P2563	Res - 870-1 Reservoir Cover/Liner Replacement	1	1	9	90	899	-	1,000
P2565	803-2 Reservoir Interior/Exterior Coating & Upgrades	-	-	20	820	50	50	940
P2566	520-2 Reservoir Interior/Exterior Coating & Upgrades	-	-	-	20	1,380	100	1,500
P2567	1004-2 Reservoir Interior/Exterior Coating & Upgrades	-	-	-	-	20	885	905
P2573	PL - 12-Inch Pipeline Replacement, 803 Zone, Hillsdale Road	160	225	1,365	-	-	-	1,750

## SIX-YEAR CIP PROJECTS BY CATEGORY (\$1,000s)

CIP No	Description	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total
<b>REPLACEMENT/RENEWAL PROJECTS, CONTINUED</b>								
P2574	PL - 12-Inch and 14-inch Pipeline Replacement, 803 and 978 Zone, Vista Grande, Pence Drive	50	100	275	400	1,925	-	2,750
P2578	PS - 711-2 (PS 711-1 Replacement and Expansion) - 14,000	-	-	-	350	3,200	3,050	6,600
P2579	Temporary Lower Otay Pump Station Improvements	140	-	-	-	-	-	140
P2592	East H Street Bike Lane Utility Coordination	50	-	-	-	-	-	50
P2593	458-1 Reservoir Interior/Exterior Coating & Upgrades	-	-	-	-	10	830	840
P2594	Large Meter Replacement	240	150	95	-	-	-	485
R2111	RWCWRF - RAS Pump Replacement	10	5	-	-	-	-	15
R2112	450-1 Disinfection Facility Rehabilitation	25	25	-	-	-	-	50
R2121	Res - 944-1 Reservoir Cover/Liner Replacement	1	1	30	1,348	-	-	1380
S2024	Campo Road Sewer Main Replacement	50	4,750	2,500	-	-	-	7300
S2044	Trenchless Sewer Rehabilitation	600	50	-	-	-	-	650
S2045	Fuerte Drive Sewer Relocation	190	10	-	-	-	-	200
S2046	RWCWRF - Aeration Panels Replacement	250	100	100	-	-	-	450
S2048	Hillsdale Road Sewer Repairs	100	390	10	-	-	-	500
S2049	Calavo Basin Sewer Rehabilitation - Phase 2	20	130	800	50	-	-	1000
S2050	Rancho San Diego Basin Sewer Rehabilitation - Phase 2	-	-	-	-	50	250	300
S2051	RWCWRF - Headworks Improvements	-	50	100	600	-	-	750
S2052	RWCWRF - Access Roads Repaving	-	-	-	50	400	300	750
S2053	RWCWRF - Sedimentation Basins Refurbishment	-	-	-	60	140	400	600
S2054	Calavo Basin Sewer Rehabilitation - Phase 3	-	-	-	-	50	250	300
<b>52</b>	<b>Total Replacements and Renewal Projects</b>	<b>\$ 5,904</b>	<b>\$ 14,761</b>	<b>\$ 18,420</b>	<b>\$ 7,617</b>	<b>\$ 8,749</b>	<b>\$ 7,720</b>	<b>\$ 63,171</b>
<b>CAPITAL PURCHASE PROJECTS</b>								
P2282	Vehicle Capital Purchases	\$ 197	\$ 290	\$ 240	\$ 187	\$ 236	\$ 253	\$ 1,403
P2285	Office Equipment and Furniture Capital Purchases	15	15	15	8	-	-	53
P2286	Field Equipment Capital Purchases	38	105	50	55	-	-	248
P2366	APCD Engine Replacements and Retrofits	820	-	-	-	-	-	820
<b>4</b>	<b>Total Capital Purchase</b>	<b>\$1,070</b>	<b>\$410</b>	<b>\$305</b>	<b>\$250</b>	<b>\$236</b>	<b>\$253</b>	<b>\$2,524</b>
<b>DEVELOPER REIMBURSEMENT PROJECTS</b>								
P2325	PL-10" to 12" Oversize, 1296 Zone, PB Road-Rolling Hills Hydro PS/PB Bndy	\$ 3	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3
P2403	PL - 12-inch, 624 Zone, Heritage Road - Olympic/Otay Valley	-	-	-	-	50	500	550
P2556	HWY 94 Upsized Utility Relocations at Melody Lane	1	99	-	-	-	-	100
R2084	RecPL - 20-Inch, 680 Zone, Village 2 - Heritage/La Media	10	40	315	-	-	-	365
<b>4</b>	<b>Total Reimbursement Projects</b>	<b>\$14</b>	<b>\$139</b>	<b>\$315</b>	<b>\$0</b>	<b>\$50</b>	<b>\$500</b>	<b>\$1,018</b>
<b>SUMMARY</b>								
CIP No	Description	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total
89	Total - FY 2017 Projects	\$10,733	\$ 19,923	\$21,296	\$ 9,096	\$ 6,825	\$ 2,192	\$ 70,065
18	Total - FY 2018 through FY 2022 Projects	-	100	1,578	2,275	6,170	9,640	19,763
<b>107</b>	<b>Grand Totals</b>	<b>\$10,733</b>	<b>\$ 20,023</b>	<b>\$22,874</b>	<b>\$11,371</b>	<b>\$ 12,995</b>	<b>\$ 11,832</b>	<b>\$ 89,828</b>

## FY 2017 CAPITAL PURCHASES

Capital purchases are non-recurring operating expense items for District-wide use that cost more than \$10,000 each and have an estimated useful life of two years or more. The Capital Purchase Projects include vehicles, office equipment and furniture, field equipment and APCD engine replacements and retrofits.

Quantity	Description	Amount
<b>VEHICLES</b>		
1	1/2 Ton Pick-up for the Inspection Services Section.	\$ 34,000
1	All Wheel Drive SUV Replacement for Inspection Services Field Manager.	30,000
1	3/4 Ton Pick-up with Utility Body for Disinfection Technician.	44,000
1	1/2 Ton Pick-up for Water System Operations Section.	34,000
1	Class 5 Dump Truck with 2-3 Yard Dump Body.	55,000
<b>Total Vehicles</b>		<b>197,000</b>
<b>OFFICE EQUIPMENT AND FURNITURE</b>		
various	Districtwide office equipment and furniture items.	15,000
<b>Total Office equipment and furniture</b>		<b>15,000</b>
<b>FIELD EQUIPMENT</b>		
1	40kw Critically Silenced Genset.	38,000
<b>Total Field equipment</b>		<b>38,000</b>
<b>APCD ENGINE REPLACEMENTS AND RETROFITS</b>		
2	Two replacement portable gensets.	300,000
2	Two emergency stand-by portable pumps.	520,000
<b>Total APCD engine replacements and retrofits</b>		<b>820,000</b>
<b>Grand Total :</b>		<b><u>\$ 1,070,000</u></b>

### SUMMARY BY PROJECT

P2282 Vehicles	\$ 197,000
P2285 Office equipment and furniture	15,000
P2286 Field equipment	38,000
P2366 APCD Engine replacements and retrofits	820,000
<b>Grand Total:</b>	<b><u>\$ 1,070,000</u></b>

## CIP JUSTIFICATION AND IMPACT ON OPERATING BUDGET

The following schedule shows anticipated operating costs associated with each project in the CIP. Below is a summary of each category of new costs that will be impacted. No additional revenues are associated with the individual projects, as revenues are linked more directly to growth in water sales and capacity fee revenues.

### PROJECTED INCREMENTAL OPERATING EXPENDITURES <sup>(1)</sup>

CIP#	Description	Cost Cat. <sup>(2)</sup>	Funding Source <sup>(3)</sup>	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total
P2040	Res - 1655-1 Reservoir 0.5 MG	M	E	\$ -	\$ -	\$ 50	\$ 51	\$ 52	\$ 52	\$ 205
P2466	Regional Training Facility	M	B/E	1,000	1,000	1,000	-	-	-	3,000
P2537	Operations Yard Property Acquisition Improvements	M/E	B	700	725	750	776	800	800	4,551
P2547	District Administration Vehicle Charging Stations	M/E	B/E	700	700	700	700	700	700	4,200
R2084	RecPL - 20-Inch, 680 Zone, Village 2 - Heritage/La Media	M	E	-	-	1,900	1,900	1,900	1,900	7,600
S2043	RWCWRF Sludge Handling System	M/E/C	B	-	-	-	-	30,000	30,000	60,000
				2,400	2,425	4,400	3,427	33,452	33,452	79,556

Cost Category	FY 2017	FY 2018	FY 2019	FY 2020	FY 2021	FY 2022	Total
Maintenance (M)	1,200	1,200	3,150	2,152	12,152	12,152	32,006
Energy (E)	1,200	1,225	1,250	1,275	11,300	11,300	27,550
Chemical (C)	-	-	-	-	10,000	10,000	20,000
Total Operating Budget Cost Impact	\$ 2,400	\$ 2,425	\$ 4,400	\$ 3,427	\$ 33,452	\$ 33,452	\$ 79,556

- <sup>(1)</sup> Projected Incremental Operating Expenditures (operating cost) or O&M includes labor, benefits, materials, and overhead.
- O&M cost for pipes: Total annual operating cost divided by the number of feet of pipe in the system = O&M cost to maintain a foot of pipe. This rate is then multiplied by the number of feet in new pipeline, and is increased annually for inflation.
- O&M cost for a pump station: Total annual operating cost divided by the number of million of gallons a day (MGD) capacity in the system = O&M cost per MGD. This rate is then multiplied by the MGD capacity of the new pump station. Similarly, power cost per MGD for transmission is calculated and applied to the MGD of the new pump station. Chemical expenses are incurred for pumping at the well sites. All estimated costs are increased annually for inflation.
- O&M cost for a reservoir: Total annual operating cost divided by the number of million gallons (MG) of storage capacity in the system. This rate per MG is then multiplied by the MG capacity of the new reservoir. Reservoirs require chemical treatment; therefore, the chemical cost per MG is estimated and applied to the future operating cost. Both O&M and chemical costs are increased annually for inflation.
- Each of the capital purchases and other types of assets has its own unique O&M cost.
- <sup>(2)</sup> Cost Category - Indicates maintenance cost (M), energy cost (E), or chemical cost (C), based on the project type and Engineer's estimates.
- <sup>(3)</sup> Funding Source - Some projects have multiple funding sources as indicated by a slash (/):  
 E - Expansion    B - Betterment    R - Replacement    N - New Supply

**Note:** See [pages 40-42](#) for complete description of CIP projects.

## SIX-YEAR CIP PROJECTS SCHEDULE

CIP No	CIP Project Title	Start	Finish	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022			
				Q1	Q2	Q3	Q4																				

### CAPITAL FACILITY PROJECTS

P2040	Res - 1655-1 Reservoir 0.5 MG	7/1/2015	6/30/2022	Planning				Design				Construction											
P2267	36-Inch Main Pumpouts and Air/Vacuum Ventilation Installations	4/1/2015	6/30/2018	Construction																			
P2382	Safety and Security Improvements	7/1/2002	6/30/2017	Construction																			
P2405	PL - 624/340 PRS, Paseo Ranchero and Otay Valley Road	7/1/2016	6/30/2023	Planning				Design				Design				Design				Construction			
P2451	Otay Mesa Desalination Conveyance and Disinfection System	7/1/2006	6/30/2029	Planning				Planning				Planning				Planning				Planning			
P2453	SR-11 Utility Relocations	7/1/2006	6/30/2023	Construction				Construction				Construction				Construction				Construction			
P2460	I.D. 7 Trestle and Pipeline Demolition	7/1/2016	6/30/2021	Planning		Design		Design				Design				Construction							
P2466	Regional Training Facility	7/1/2007	6/30/2017	Planning																			
P2485	SCADA Communication System and Software Replacement	7/1/2009	6/30/2021	Construction				Construction				Construction				Construction							
P2486	Asset Management - Info Master Water Implementation	7/1/2009	6/30/2018	Planning				Planning															
P2494	Multiple Species Conservation Plan	7/1/2009	6/30/2018	Planning				Planning															
P2496	Otay Lakes Road Utility Relocations	7/1/2009	6/30/2018	Construction				Construction															
P2504	Regulatory Site Access Road and Pipeline Relocation	7/1/2010	6/30/2020	Design				Design		Construction		Construction		Construction									
P2516	PL - 12-Inch, 640 Zone, Jamacha Road - Darby/Osage	7/1/2019	6/30/2023									Planning				Design				Construction			
P2520	Motorola Mobile Radio Upgrade	8/1/2011	6/30/2017	Construction																			
P2521	Large Meter Vault Upgrade Program	8/1/2016	6/1/2020	Construction				Construction				Construction											
P2537	Operations Yard Property Acquisition Improvements	6/1/2008	6/30/2016	Warranty																			
P2541	624 Pressure Zone PRSs	7/1/2013	7/30/2016	Warranty																			
P2547	District Administration Vehicle Charging Stations	7/1/2014	6/30/2018	Design		Construction		Construction															
P2550	Fuel Island Upgrade	7/1/2016	3/31/2017	Design		Construction																	
P2551	Blossom Lane Helix WD and Otay WD Interconnection	7/1/2014	6/30/2017	Design		Construction																	
P2552	South Barcelona Helix WD and Otay WD Interconnection	7/1/2014	8/31/2016	Warranty																			
P2553	Heritage Road Bridge Replacement and Utility Relocation	7/1/2014	6/30/2020	Planning		Design		Design		Construction				Construction									
P2564	Administration Carpet Replacement Program	7/1/2017	6/30/2018					Construction															
P2568	Technology Business Processes Improvement	7/1/2015	6/30/2017	Construction																			
P2569	Metro Ethernet Implementation/ District Facilities - Pilot	7/1/2015	10/30/2016	Construction																			
P2570	SCADA Equipment & Infrastructure Enhancement	7/1/2016	6/30/2019	Construction				Construction				Construction											
P2571	Datacenter Network Enhancement & Replacement of Infrastructure	7/1/2018	6/30/2020					Construction				Construction											
P2572	Enterprise Resource Planning (ERP) Replacement	7/1/2020	6/30/2022													Construction				Construction			

■ Planning    
 ■ Design    
 ■ Construction    
 ■ Ongoing    
 ■ Warranty



## SIX-YEAR CIP PROJECTS SCHEDULE

CIP No	CIP Project Title	Start	Finish	FY 2017				FY 2018				FY 2019				FY 2020				FY 2021				FY 2022			
				Q1	Q2	Q3	Q4																				

### REPLACEMENT/RENEWAL PROJECTS, CONTINUED

P2531	944-1 Reservoir Interior & Exterior Coating	5/1/2014	6/29/2018	Construction				Construction															
P2532	944-2 Reservoir Interior & Exterior Coating	5/1/2014	6/29/2018	Construction				Construction															
P2533	1200-1 Reservoir Interior & Exterior Coating	6/1/2016	6/30/2020	Construction				Construction				Construction											
P2534	978-1 Reservoir Interior & Exterior Coating	6/2/2016	6/28/2019	Construction				Construction				Construction											
P2535	458-2 Reservoir Interior & Exterior Coating & Upgrades	6/1/2013	6/29/2018	Construction				Construction															
P2538	Administration and Operations Building Fire Sprinkler Replacement	12/1/2012	6/30/2017	Construction																			
P2539	South Bay Bus Rapid Transit (BRT) Utility Relocations	7/1/2013	6/30/2019	Construction				Construction				Construction											
P2542	850-3 Reservoir Interior Coating	6/30/2013	12/29/2017	Construction				Construction															
P2543	850-1 Reservoir Interior/Exterior Coating	1/2/2017	12/31/2020	Construction																			
P2544	850-2 Reservoir Interior/Exterior Coating	4/1/2016	12/31/2019	Construction				Construction				Construction											
P2545	980-1 Reservoir Interior Exterior Coating	1/1/2015	12/31/2016	Construction																			
P2546	980-2 Reservoir Interior/Exterior Coating	1/1/2018	6/30/2021	Construction																			
P2555	Administration and Operations Parking Lot Improvements	7/1/2015	6/30/2018	Construction				Construction															
P2557	520 Res Recirculation Pipeline Chemical Supply and Analyzer Feed	7/1/2015	6/30/2019	Construction				Construction				Construction											
P2559	Pressure Vessel Repair and Replacement Program	7/1/2015	6/30/2022	Construction																			
P2561	Res - 711-3 Reservoir Cover/Liner Replacement	7/1/2015	6/30/2020	Construction				Construction				Construction											
P2562	Res - 571-1 Reservoir Cover/Liner Replacement	7/1/2015	6/30/2020	Construction				Construction				Construction											
P2563	Res - 870-1 Reservoir Cover/Liner Replacement	7/1/2015	6/30/2021	Construction																			
P2565	803-2 Reservoir Interior/Exterior Coating & Upgrades	1/1/2019	6/30/2022	Construction																			
P2566	520-2 Reservoir Interior/Exterior Coating & Upgrades	1/3/2020	6/30/2022	Construction																			
P2567	1004-2 Reservoir Interior/Exterior Coating & Upgrades	1/4/2021	6/30/2022	Construction																			
P2573	PL - 12-Inch Pipeline Replacement, 803 Zone, Hillsdale Road	7/1/2016	3/1/2019	Construction				Construction				Construction											
P2574	PL - 12-Inch and 14-inch Pipeline Replacement, 803 and 978 Zone, Vista	7/1/2016	6/30/2021	Construction																			
P2578	PS - 711-2 (PS 711-1 Replacement and Expansion) - 14,000 gpm	7/1/2019	6/30/2022	Construction																			
P2579	Temporary Lower Otay Pump Station Improvements	7/1/2016	6/30/2017	Construction				Construction															
P2592	East H Street Bike Lane Utility Coordination	7/1/2016	12/31/2016	Construction																			
P2593	458-1 Reservoir Interior/Exterior Coating & Upgrades	2/1/2021	6/30/2022	Construction																			
P2594	Large Meter Replacement	7/1/2016	6/30/2019	Construction				Construction				Construction											
R2111	RWCWRF - RAS Pump Replacement	7/1/2013	6/30/2018	Construction				Construction															

■ Planning   
 ■ Design   
 ■ Construction   
 ■ Ongoing   
 ■ Warranty



## CIP PROJECT SHEET DESCRIPTION

The following pages describe each information item on the individual CIP project sheets included in this section.

**CIP Number:** The CIP project number for all projects is assigned by the Engineering Project Manager, and is a unique identifying code on all District records for the specified project.

**Project Title:** Project titles follow a set format as described herein. The type of project should be identified first. For example, if a project were a 711 Pressure Zone 24-inch pipeline, the title would read "PL - 24-Inch, 711 Zone, Location - From A to B." Pump stations and reservoirs are identified similarly with abbreviations for type and size.

**Director Division:** All projects are located within a Board of Director's division boundary unless they apply to the entire District or are outside of the District boundaries. The Director division where the majority of the physical project is located is listed. If it is a District-wide project it is listed as "District-wide." If it is outside the District boundary it is listed as "None."

**Project Manager:** The person responsible for managing the project from inception through completion.

**I.D. Location:** Most projects are located within one or more improvement districts. The I.D. location listed is where the majority of the physical project is located. However, projects located in portions of the District which have not yet been annexed into an improvement district are listed as "None."

**Original Approved Date:** The date the project was originally approved with budget expenditures for the corresponding fiscal year by the Board of Directors.

**Priority:** The priority of the project is listed in this field as one of the following:

1. HIGH: Safety, restoration of service to customers, obligation that requires immediate action, directed by the Board of Directors, and/or critical system need.
2. MEDIUM: Upgrade of system or expansion requirement to maintain system reliability not critical. Identified through planning effort as required within next few fiscal years.
3. LOW: Identified through planning effort as required in future years to support development; not anticipated in the immediate future.
4. VERY LOW: Requirement may have low probability of need in the future.

**Related CIP Projects:** A maximum of three CIP project numbers that affect the scheduling and/or is related to the subject project and/or could provide important information.

**Budget Amount:** The estimated budget includes all costs needed to complete a project including land, right-of-way, consultants, contractors, District staff time, etc. All prior years' costs are part of the total cost and dollars are rounded up to the nearest \$1,000.

## CIP PROJECT SHEET DESCRIPTION

**Description of Project:** A brief description of a project which typically includes size, length, capacity, etc.

**Justification of Project:** A brief explanation of why a project is required which addresses flexibility, reliability, water quality, safety, contractual obligation, immediate growth, etc., as appropriate.

**Comments:** Pertinent information that should be known about a project that is not shown elsewhere on the project sheet, including details of funding sources, including grant funding or contributions from other agencies.

**Funding Detail:** The funding sources are listed along with the percentage of distribution to expansion, betterment, and/or replacement.

**Expenditure Schedule:** The breakdown of a project's expenditures by fiscal year – prior years' cost along with a six-year budget schedule. Included in each year are all costs to complete the work scheduled in that year rounded up to the nearest \$1,000.

**Project Schedule:** The schedule of the primary project phase and estimated cost by the phases of planning, design, and construction shown with the estimated start date (month/year), finish date (month/year). The schedule time frames and estimated cost for each major phase of the project, correspond with the expenditure schedule information.

**Projected Incremental Operation Expenditures Schedule:** To determine the cost to maintain these new assets, the District looks at the cost of maintaining similar assets through the Infrastructure Management System and financial system. Costs are tracked by three main infrastructure asset groups of pipes, pump stations, and reservoirs, as well as capital purchases and other types. Pipes typically have only operation and maintenance (O&M) costs associated with them, pump stations have O&M as well as power cost, and reservoirs have O&M and chemical cost. Each of the capital purchases and other types has its own unique O&M cost.

**Project Location:** A vicinity map is drawn in AutoCAD format using the GIS database as the foundation showing the approximate location and limits of a project within the District. Some projects do not have a specific location. In this case, a map of the entire District will then be shown as the project location.

**OWD Map Book:** The page in the District's facility map book where a project is primarily located. Some projects do not have a specific location in which case the words "District-wide" will be shown.

**Submitted By:** The project manager who originally submitted or the project manager who revised the project sheet along with the date of submittal or last revision date of the CIP project sheet.

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**OTAY WATER DISTRICT  
CAPITAL IMPROVEMENT PROGRAM**

<b>PROJECT TITLE:</b> Res - 1655-1 Reservoir 0.5 MG	<b>CIP Number:</b> P2040
<b>PROJECT MANAGER:</b> Kevin Cameron	<b>DIRECTOR DIVISION:</b> 5
<b>ORIGINAL APPROVED DATE:</b> 8/19/1992	<b>I.D. LOCATION:</b> 22
<b>RELATED CIP PROJECTS:</b>	<b>PRIORITY:</b> 3
	<b>BUDGET AMOUNT:</b> \$3,400,000

**DESCRIPTION OF PROJECT:**

This project is for construction of a 0.5 million gallon reservoir and approximately 1,500 feet of 12-inch pipeline to connect to the existing system at Prisilla Drive. These improvements are located within the Rancho Jamul Estates area.

**JUSTIFICATION OF PROJECT:**

The project will increase both system reliability and service capabilities, and provide adequate fire protection for the Rancho Jamul Estates area within the 1655 Pressure Zone. The existing system is currently served with a hydropneumatic pump station.

**COMMENTS:**

In early 2000, the project was designed to 90%, and due to the economy, the project was put on hold. The overall budget was increased to account for the spending done prior to FY 2015. The project budget increased \$1.2 Million after receiving a preliminary cost estimate from Concrete Tank Manufacturer and updating cost estimates from the estimate done in 2000. The concrete tank will have to be a Type I due to location and steep grades. Added updated costs for Reservoir security items.

**FUND DETAILS:**

FUNDING SOURCE:	Expansion	Betterment	Replacement	New Water Supply	Total
Expansion	100 %	0 %	0 %	0 %	100 %
<b>TOTAL:</b>	100 %	0 %	0 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	FY	
TOTAL	2017	2018	2019	2020	2021	2022	Total	
	\$500	\$20	\$80	\$450	\$1,025	\$825	\$500	\$3,400

CIP Number: P2040

PROJECT SCHEDULE:

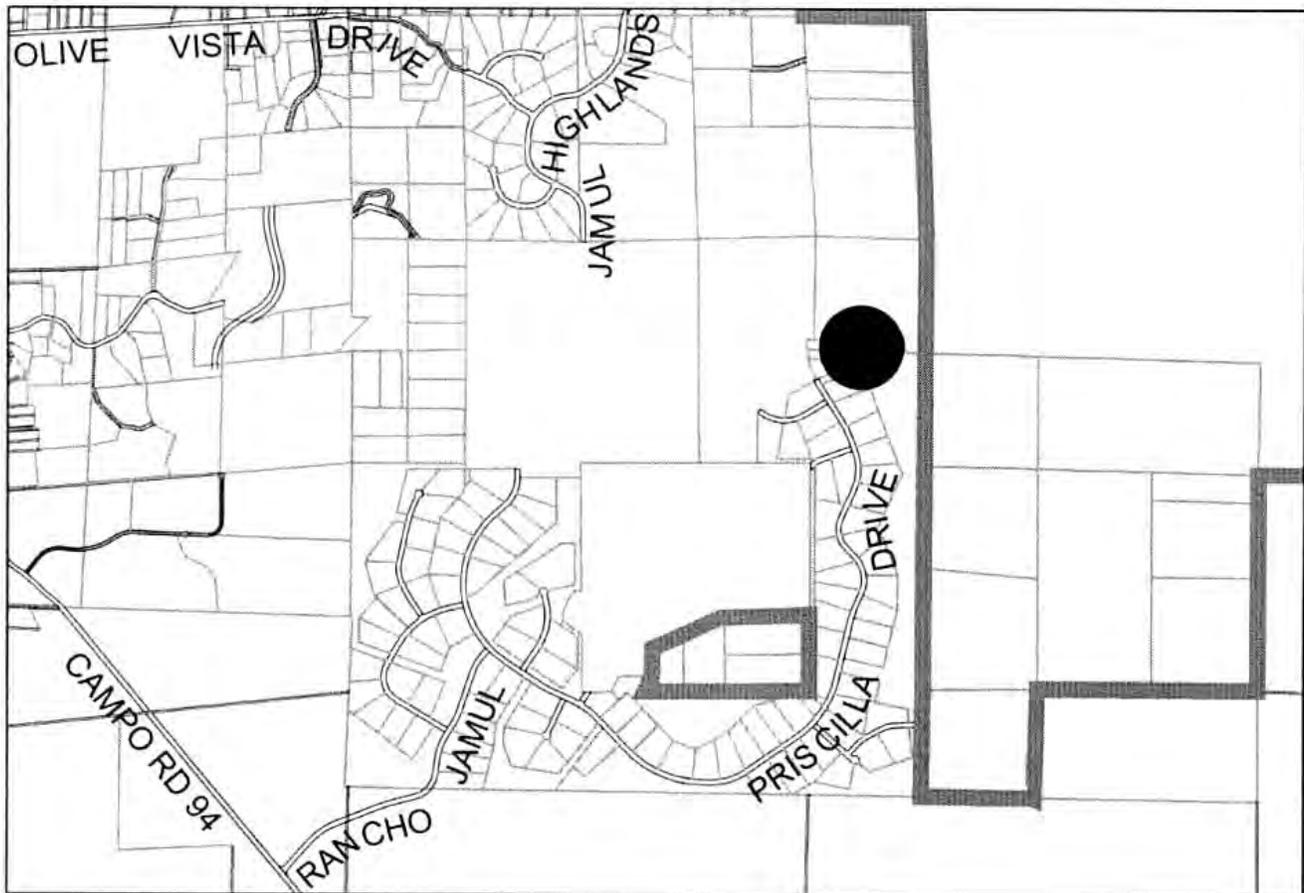
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2015	9/30/2018	\$160
DESIGN:	10/1/2018	2/7/2020	\$870
CONSTRUCTION:	2/10/2020	6/30/2022	\$2,370

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$50	\$51	\$52	\$52	\$205
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 310



Submitted By: Bob Kennedy

Date: 5/12/2016

**PROJECT TITLE:** 36-Inch Main Pumpouts and Air/Vacuum Ventilation Installations **CIP Number:** P2267

<b>PROJECT MANAGER:</b> Jeff Marchioro	<b>DIRECTOR DIVISION:</b> 3
<b>ORIGINAL APPROVED DATE:</b> 6/3/1996	<b>I.D. LOCATION:</b> 22
<b>RELATED CIP PROJECTS:</b>	<b>PRIORITY:</b> 2
	<b>BUDGET AMOUNT:</b> \$735,000

**DESCRIPTION OF PROJECT:**

This project is for the installation of ventilation equipment on the existing pumpout and air/vacuum vaults on the 36-inch transmission main from the San Diego County Water Authority Otay FCF No. 11 to the Regulatory Site. This project also includes upsizing the existing 2-inch air/vacuum valves to 6-inch.

**JUSTIFICATION OF PROJECT:**

The vault openings do not stay in place when refilling because they lack ventilation. By installing vents in these vaults, the lids will stay in place, thus eliminating a safety hazard. Draining and filling the 36-inch main at higher flow rates is required to return the system to service in shorter periods of time.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Betterment ID 22	0 %	100 %	0 %	0 %	100 %
<b>TOTAL:</b>	0 %	100 %	0 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$460	\$220	\$55	\$0	\$0	\$0	\$735

CIP Number: P2267

PROJECT SCHEDULE:

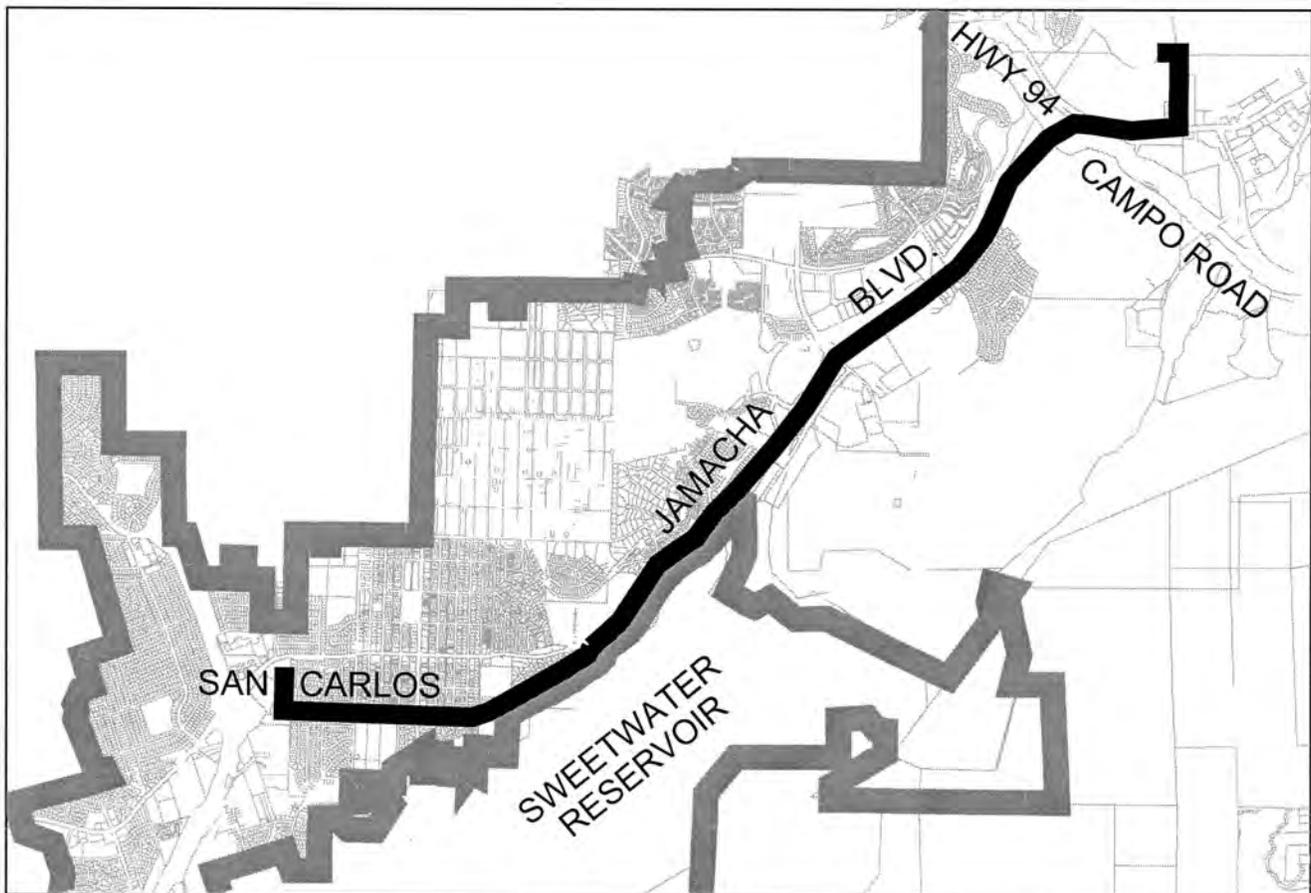
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:			\$0
DESIGN:	4/1/2015	9/7/2016	\$75
CONSTRUCTION:	9/7/2016	6/30/2018	\$660

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 198



Submitted By: OTAY\Jeff.Marchioro

Date: 4/12/2016

<b>PROJECT TITLE:</b> Safety and Security Improvements		<b>CIP Number:</b> P2382					
<b>PROJECT MANAGER:</b> Kent Payne		<b>DIRECTOR DIVISION:</b> 0		<b>I.D. LOCATION:</b> District Wide			
<b>ORIGINAL APPROVED DATE:</b> 6/5/2002		<b>PRIORITY:</b> 1		<b>BUDGET AMOUNT:</b> \$2,811,000			
<b>RELATED CIP PROJECTS:</b>							
<b>DESCRIPTION OF PROJECT:</b>							
<p>This project is for the installation and replacement of the physical security burglar alarm systems to Digital Monitoring Systems (DMP) and associated security components at 23 District facilities. This is to ready sites for enterprise security and access control management software "ENTRE."</p>							
<b>JUSTIFICATION OF PROJECT:</b>							
<p>This project is to improve the security of the Otay Water District facilities by installing and upgrading the hardware and software required to provide access control management, intrusion detection and response, and to ready the facilities for future evaluation of video camera verification systems.</p> <p>Although existing facilities are relatively safe and secure, the Federal government has recommended that security to water systems be improved.</p>							
<b>COMMENTS:</b>							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
Replacement	0 %	0 %	100 %	0 %	100 %		
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
\$2,561	\$250	\$0	\$0	\$0	\$0	\$0	\$2,811

**CIP Number: P2382**

**PROJECT SCHEDULE:**

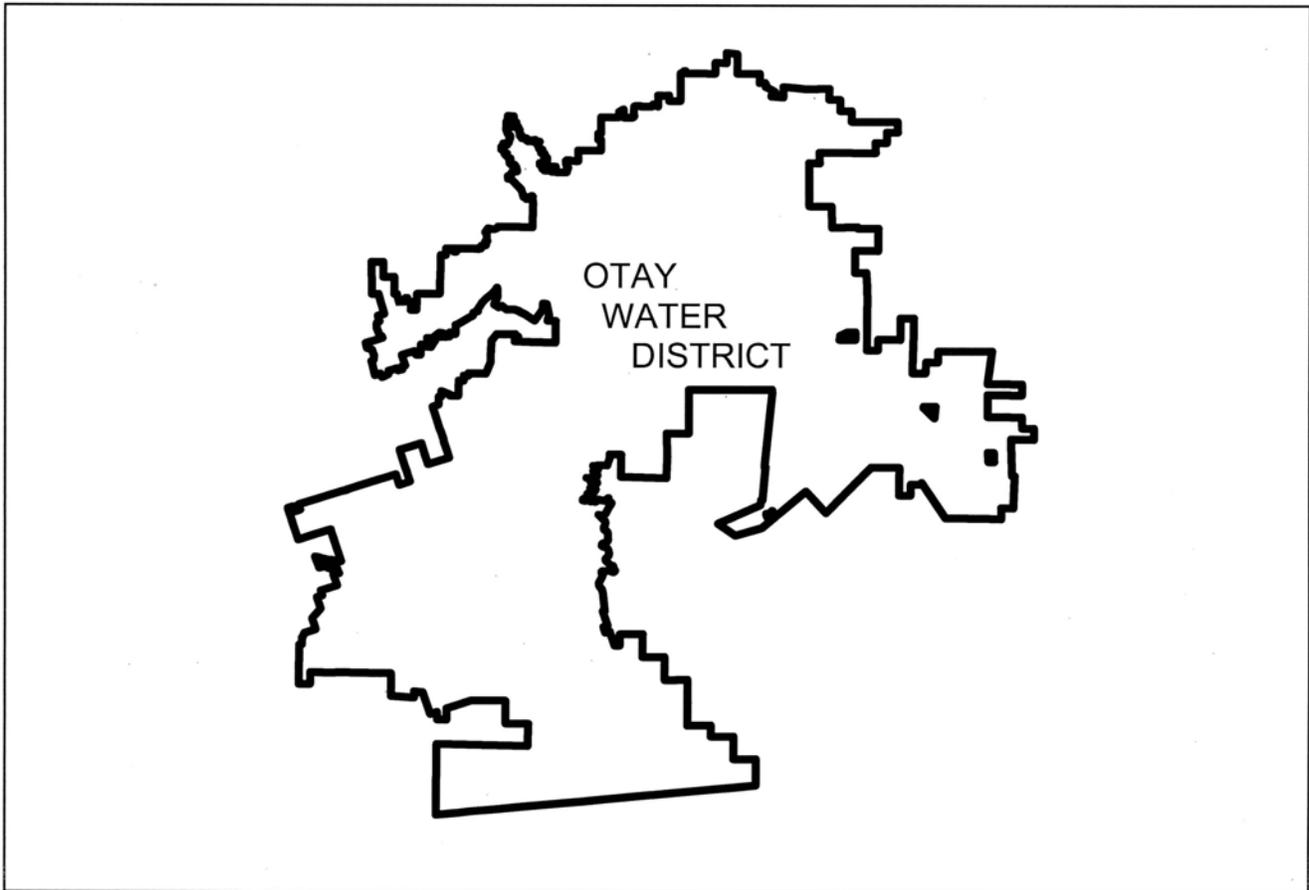
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>	7/1/2002	6/30/2017	\$62
<b>DESIGN:</b>	9/1/2003	6/30/2017	\$231
<b>CONSTRUCTION:</b>	1/1/2004	6/30/2017	\$2,518

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Jolene Fielding

**Date:** 4/25/2016

**PROJECT TITLE:** PL - 624/340 PRS, Paseo Ranchero and Otay Valley Road

**CIP Number:** P2405

**DIRECTOR DIVISION:** 2

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:**

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$650,000

**DESCRIPTION OF PROJECT:**

This project is for the construction of approximately 1,200 feet of 12-Inch pipeline in the 340 Pressure Zone in Otay Valley Road and the existing 16-Inch pipeline in Otay Valley Road. Construction of a pressure reducing station between the 624/340 Pressure Zone near the intersection of Otay Valley Road/Main Street and Heritage Road.

**JUSTIFICATION OF PROJECT:**

This will provide a redundant service connection to the 340 Pressure Zone.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Betterment ID 22	0 %	100 %	0 %	0 %	100 %
<b>TOTAL:</b>	0 %	100 %	0 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$5	\$5	\$5	\$50	\$500	\$570

CIP Number: P2405

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2016	6/30/2017	\$5
DESIGN:	7/1/2017	10/31/2021	\$100
CONSTRUCTION:	11/1/2021	6/30/2023	\$545

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 51



Submitted By: Steve Beppler

Date: 4/21/2016

<b>PROJECT TITLE:</b> Otay Mesa Desalination Conveyance and Disinfection System		<b>CIP Number:</b> P2451					
<b>PROJECT MANAGER:</b> Bob Kennedy		<b>DIRECTOR DIVISION:</b> 2		<b>I.D. LOCATION:</b> 22		<b>PRIORITY:</b> 2	
<b>ORIGINAL APPROVED DATE:</b> 5/23/2006		<b>RELATED CIP PROJECTS:</b> P2083		<b>BUDGET AMOUNT:</b> \$30,000,000			
<b>DESCRIPTION OF PROJECT:</b>							
The Otay Water District could potentially receive a potable water supply source from the planned Rosarito Desalination Facility via a conveyance system, pumping facilities, and disinfection system.							
<b>JUSTIFICATION OF PROJECT:</b>							
The concept could provide for an independent water source to the Otay Water District.							
<b>COMMENTS:</b>							
Original Budget amount approved 5/23/2006 for \$1,000,000. Budget increase approved 6/25/2008 to \$5,000,000. On 5/21/2009, the Budget was increased to \$30,000,000 (\$1,000,000 for UV Treatment, \$9,000,000 for Pump Station, and \$20,000,000 for Conveyance Pipeline).							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
New Water Supply Fee Projects	0 %	0 %	0 %	40 %	40 %		
Betterment ID 22	0 %	60 %	0 %	0 %	60 %		
<b>TOTAL:</b>	0 %	60 %	0 %	40 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$3,575	\$50	\$50	\$50	\$50	\$50	\$3,875

**CIP Number: P2451**

**PROJECT SCHEDULE:**

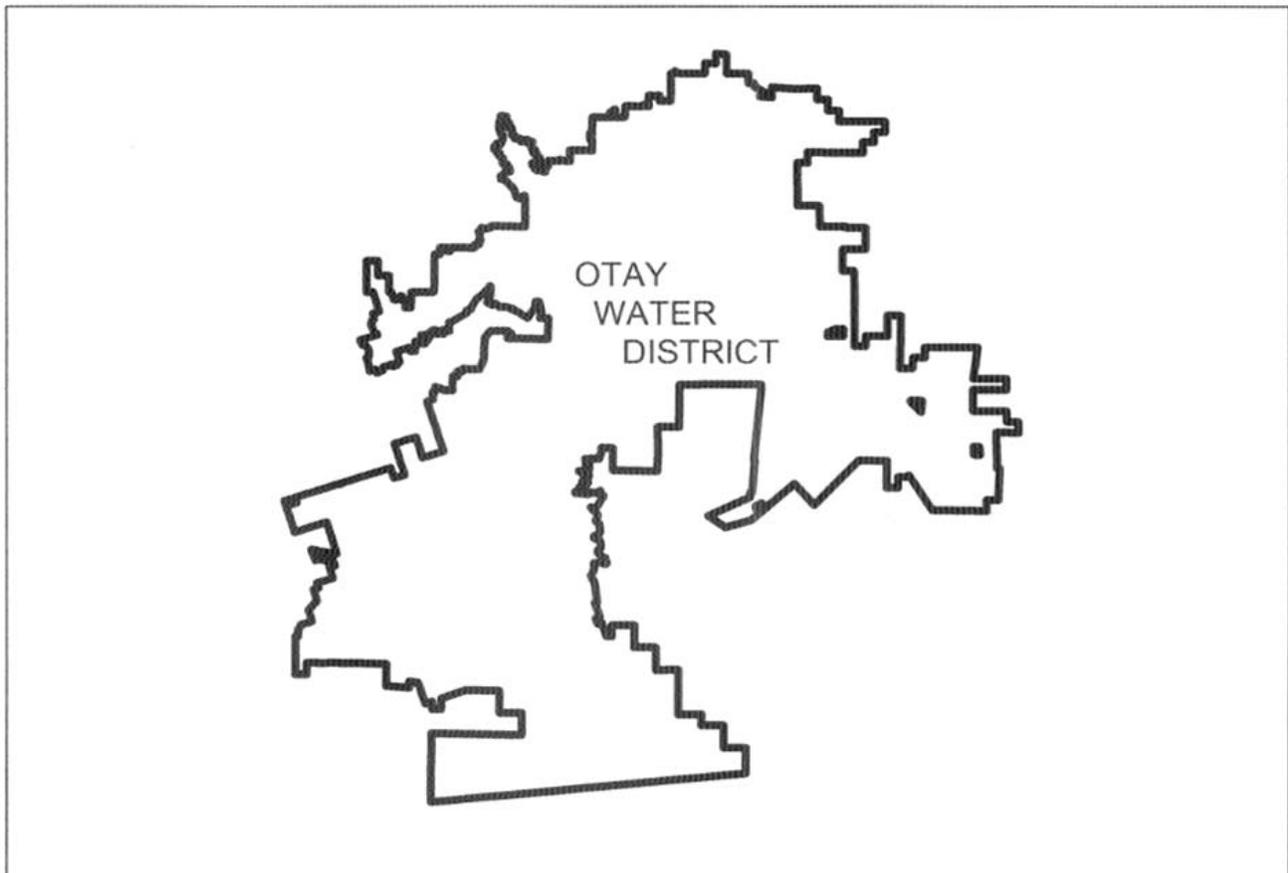
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>	7/1/2006	6/30/2023	\$4,000
<b>DESIGN:</b>	7/1/2024	6/30/2026	\$4,000
<b>CONSTRUCTION:</b>	7/1/2026	6/30/2029	\$22,000

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Jolene Fielding

**Date:** 4/14/2016

<b>PROJECT TITLE: SR-11 Utility Relocations</b>		<b>CIP Number: P2453</b>					
<b>PROJECT MANAGER:</b> Jeff Marchioro		<b>DIRECTOR DIVISION:</b> 2		<b>I.D. LOCATION:</b> 22		<b>PRIORITY:</b> 1	
<b>ORIGINAL APPROVED DATE:</b> 5/23/2006		<b>BUDGET AMOUNT:</b> \$4,000,000					
<b>RELATED CIP PROJECTS:</b>							
<b>DESCRIPTION OF PROJECT:</b>							
<p>This project is for all utility relocations required due to construction of the SR-11 on the Otay Mesa. Facility relocations vary in size from 8-inch to 24-inch. Both the potable and recycled water systems are impacted.</p>							
<b>JUSTIFICATION OF PROJECT:</b>							
<p>Caltrans will construct the SR-11, which will result in utility conflicts with existing Otay Water District facilities at various locations. In most cases, the Otay Water District does have prior and superior rights. The facilities must be relocated prior to Caltrans' construction of the SR-11. The cost of the facilities relocations that have prior rights will be reimbursed by Caltrans.</p>							
<b>COMMENTS:</b>							
<p>Budget increased from \$2.25M to \$4M to account for actual expenses for the first two rounds of relocations and/or additional relocations not included in the budget previously set in FY 2011. Most expenses have been reimbursed by Caltrans.</p>							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
Replacement	0 %	0 %	100 %	0 %	100 %		
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$1,617	\$250	\$500	\$500	\$500	\$133	\$4,000

CIP Number: P2453

**PROJECT SCHEDULE:**

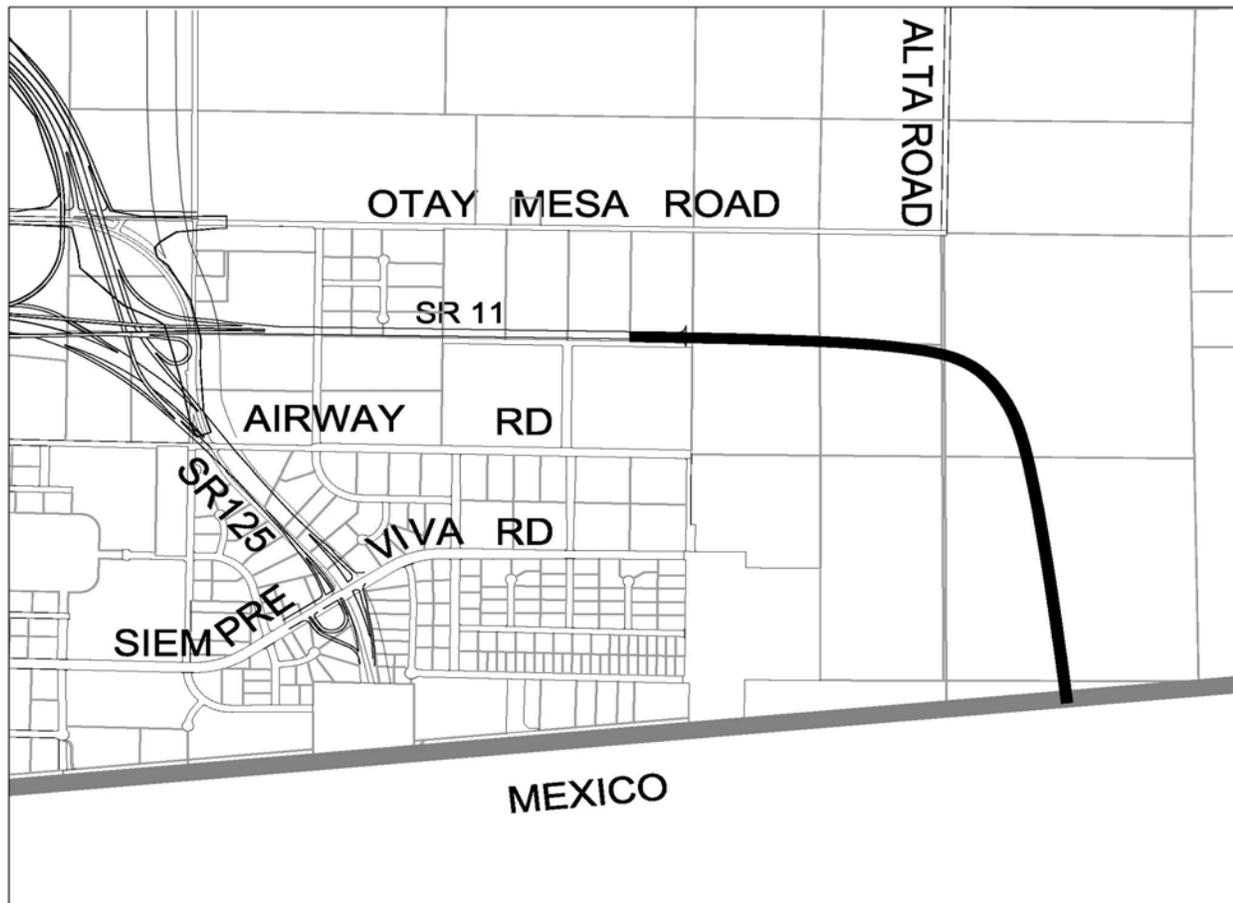
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2006	6/1/2016	\$50
DESIGN:	7/1/2009	6/30/2022	\$500
CONSTRUCTION:	1/8/2014	6/30/2023	\$3,450

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 5



Submitted By: OTAY\Jeff.Marchioro

Date: 5/10/2016

<b>PROJECT TITLE: I.D. 7 Trestle and Pipeline Demolition</b>		<b>CIP Number: P2460</b>					
<b>PROJECT MANAGER:</b> Stephen Beppler		<b>DIRECTOR DIVISION:</b> 1		<b>I.D. LOCATION:</b> 7		<b>PRIORITY:</b> 2	
<b>ORIGINAL APPROVED DATE:</b>		<b>BUDGET AMOUNT:</b> \$600,000					
<b>DESCRIPTION OF PROJECT:</b>							
<p>This project is for the steel trestle demolition and removal of pipeline. The 1960's steel trestle 24-inch waterline crossing of Otay River was replaced by the Central Area and Otay Mesa Interconnection pipeline in 2001. The trestle also carries a high pressure gas line that supplies the 870-1 Pump Station that prevented the trestle from being demolished previously. SDG&amp;E is proposing to abandon this gas line in 2016, replacing it with a feed from the south.</p>							
<b>JUSTIFICATION OF PROJECT:</b>							
<p>The existing pipeline is no longer in service and should be removed to address liability concerns. The Central Area-Otay Mesa Interconnection Pipeline supplies water to the Otay Mesa System.</p>							
<b>COMMENTS:</b>							
<p>FY 2017 scope is to identify the project constraints that will drive the demolition costs, including environmental factors, access limitations, and demolition alternatives.</p>							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
Replacement	0 %	0 %	100 %	0 %	100 %		
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$5	\$50	\$5	\$5	\$5	\$530	\$0
							\$600

CIP Number: P2460

PROJECT SCHEDULE:

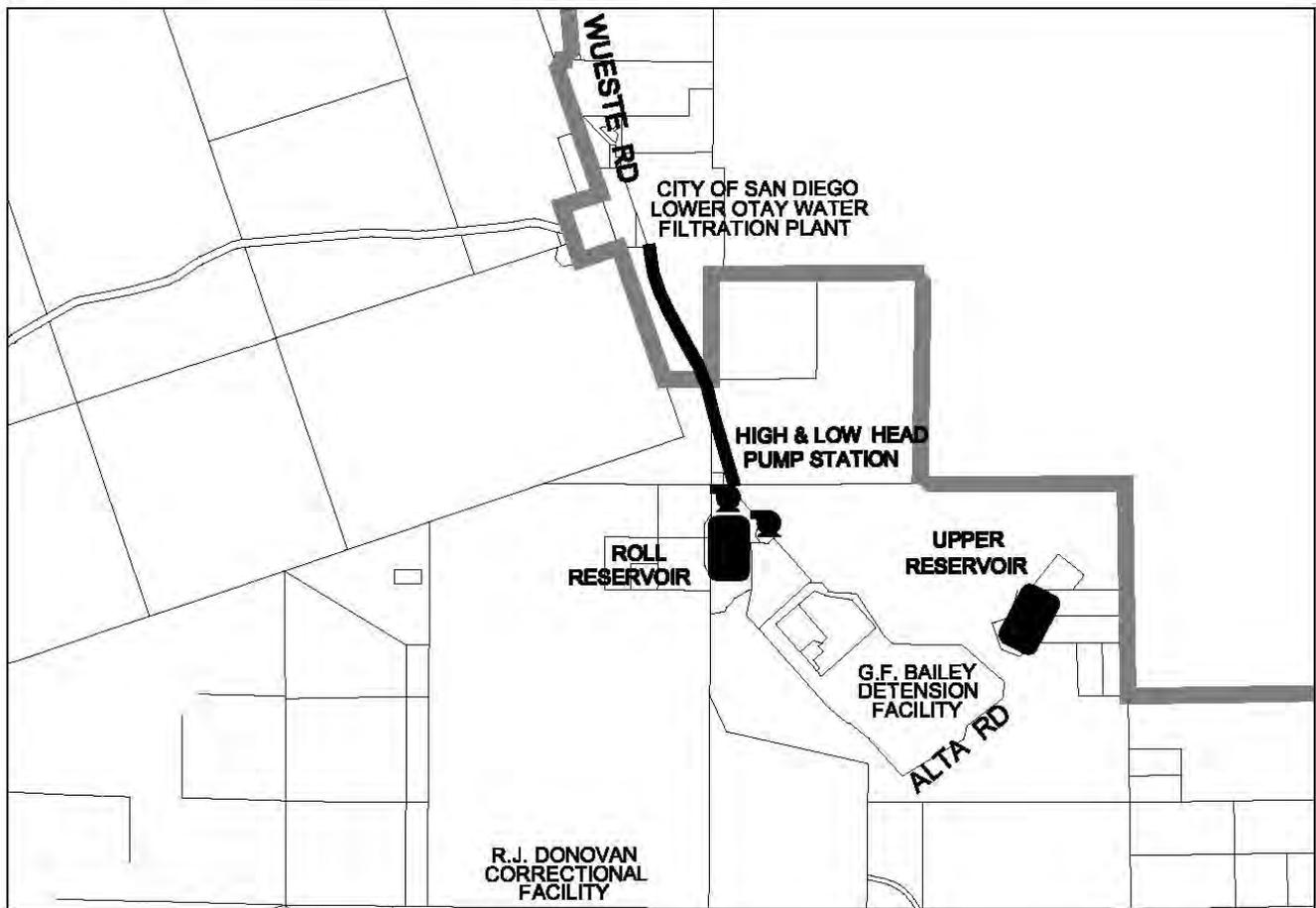
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2016	1/31/2017	\$25
DESIGN:	2/1/2017	8/31/2020	\$225
CONSTRUCTION:	9/1/2020	6/30/2021	\$350

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 71



Submitted By: Jolene Fielding

Date: 4/19/2016

<b>PROJECT TITLE:</b> Regional Training Facility	<b>CIP Number:</b> P2466
<b>PROJECT MANAGER:</b> Lisa Coburn-Boyd	<b>DIRECTOR DIVISION:</b> 5
<b>ORIGINAL APPROVED DATE:</b> 5/29/2007	<b>I.D. LOCATION:</b> 22
<b>RELATED CIP PROJECTS:</b> P2504	<b>PRIORITY:</b> 1
	<b>BUDGET AMOUNT:</b> \$300,000

**DESCRIPTION OF PROJECT:**  
This project is for the construction of a Regional Training Facility at the Regulatory Site through a partnership with the San Miguel Consolidated Fire Protection District.

**JUSTIFICATION OF PROJECT:**  
The Otay Water District needs a training center to train staff on trenching, shoring, fire safety, rescue, and confined space. The San Miguel Consolidated Fire Protection District has secured funding for this project and will be the lead agency in the development of the training facility.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Expansion	40 %	0 %	0 %	0 %	40 %
Betterment ID 22	0 %	60 %	0 %	0 %	60 %
<b>TOTAL:</b>	40 %	60 %	0 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$294	\$6	\$0	\$0	\$0	\$0	\$300

CIP Number: P2466

PROJECT SCHEDULE:

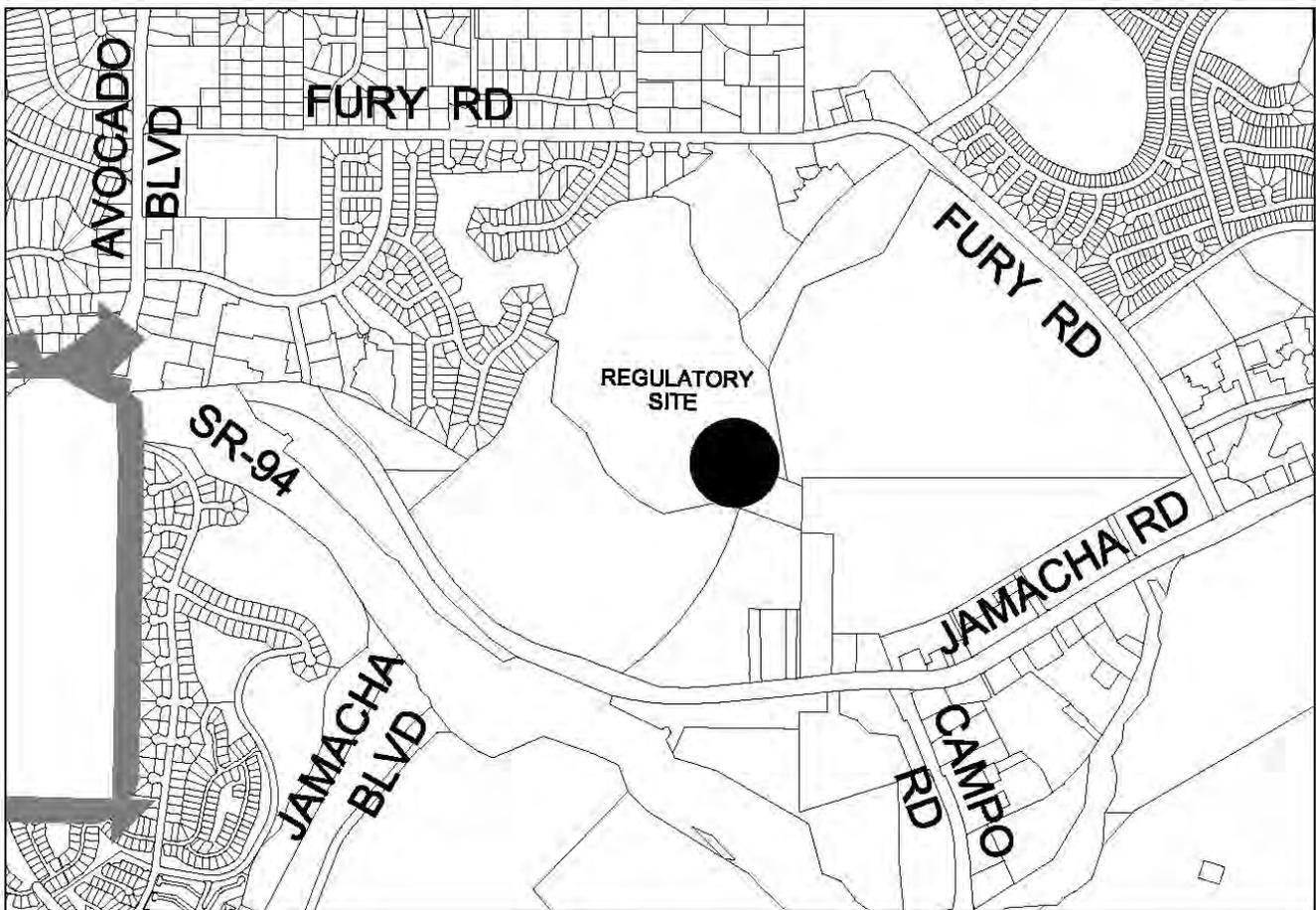
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2007	6/30/2017	\$300
DESIGN:			\$0
CONSTRUCTION:			\$0

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$1,000	\$1,000	\$1,000	\$0	\$0	\$0	\$3,000
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 343



Submitted By: Jolene Fielding

Date: 5/10/2016

<b>PROJECT TITLE:</b>	<b>SCADA Communication System and Software Replacement</b>	<b>CIP Number:</b>	<b>P2485</b>
<b>PROJECT MANAGER:</b>	Michael Kerr	<b>DIRECTOR DIVISION:</b>	0
<b>ORIGINAL APPROVED DATE:</b>	5/21/2009	<b>I.D. LOCATION:</b>	District Wide
<b>RELATED CIP PROJECTS:</b>		<b>PRIORITY:</b>	1
		<b>BUDGET AMOUNT:</b>	\$2,014,000

**DESCRIPTION OF PROJECT:**

This project will replace the existing SCADA software and radio communication system and install fuel level transmitters on all diesel fuel tanks. A battery backup system will be installed at remote SCADA/radio sites without emergency power generators. Money budgeted in FY 2016 and FY 2017 is for the replacement of programmable logic controller's (PLC's) in the field that will no longer be supported at that time. \$40K in FY 2016 for the SCADA Roadmap Documentation.

**JUSTIFICATION OF PROJECT:**

Beginning in 2012, the vendor no longer upgrades or supports the existing system. The radio equipment needs replacement to allow for increased bandwidth capability to increase security systems functionality. The fuel level transmitters on all diesel fuel tanks and remote SCADA monitoring will provide supervisors with real time fuel levels to monitor available runtime on stand-by engines during extended power outages. The battery backup system will provide continuous communications and SCADA monitoring and control for 3 days if the District lost power at sites without emergency power generators.

**COMMENTS:**

Going into Fiscal Year 2017 and beyond, the anticipated expenditures are for the following:

Power backup for all remote sites, both material and staff labor - \$36K  
 PLC replacement and stationary generator fuel level readings on SCADA, both material and staff labor - \$50K

FY 2018 - \$85K for PLC upgrade project- upgrade 10 PLCs (materials and labor)  
 FY 2019 - \$85K for PLC upgrade project- upgrade 10 PLCs (materials and labor)  
 FY 2020 - \$85K for PLC upgrade project- upgrade 10 PLCs (materials and labor)  
 FY 2021 - \$85K for PLC upgrade project- upgrade 10 PLCs (materials and labor)  
 FY 2022 - \$24K for PLC upgrade project- upgrade 3 PLCs (materials and labor)

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>							
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>	
	\$1,650	\$85	\$85	\$85	\$85	\$24	\$0	\$2,014

**CIP Number: P2485**

**PROJECT SCHEDULE:**

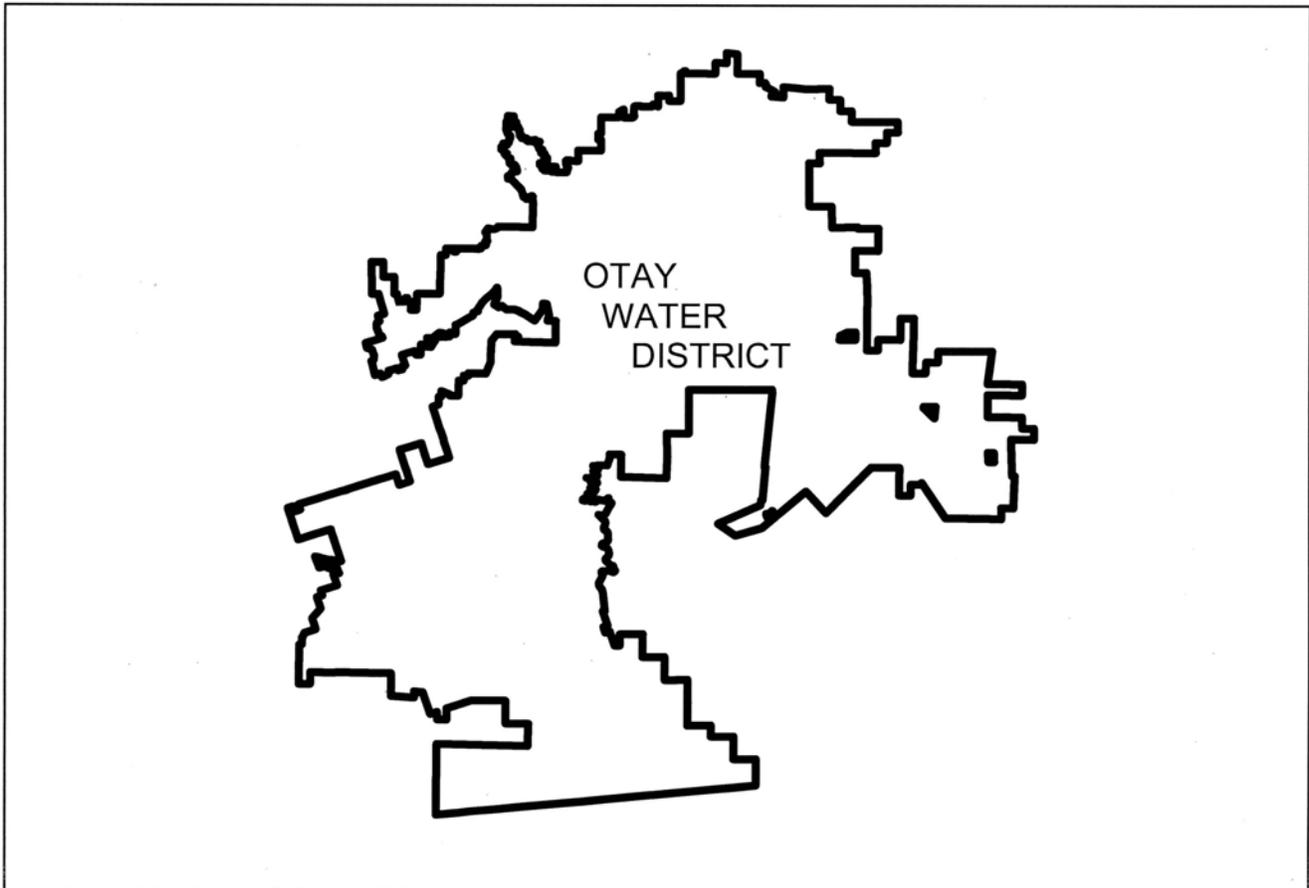
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>			\$0
<b>DESIGN:</b>			\$0
<b>CONSTRUCTION:</b>	7/1/2009	6/30/2021	\$2,014

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Bob Kennedy

**Date:** 5/12/2016

<b>PROJECT TITLE:</b> Asset Management - Info Master Water Implementation		<b>CIP Number:</b> P2486					
<b>PROJECT MANAGER:</b> Ming Zhao		<b>DIRECTOR DIVISION:</b> 0	<b>I.D. LOCATION:</b> District Wide				
<b>ORIGINAL APPROVED DATE:</b> 5/21/2009		<b>PRIORITY:</b> 1					
<b>RELATED CIP PROJECTS:</b>		<b>BUDGET AMOUNT:</b> \$957,000					
<b>DESCRIPTION OF PROJECT:</b>							
<p>This project is for the development of an integrated Asset Management system. Funds in FY 2016 were used to assign the criticality to major facilities and testing of condition assessment methodologies. Implement the Asset Management software, Info Master. Explore the analytical capabilities to better use asset management information.</p>							
<b>JUSTIFICATION OF PROJECT:</b>							
<p>Implementation of an Asset Management Plan is a best practice and will provide for a formal means of maintaining, replacing, and funding the existing fixed assets. It is a strategic objective in the existing and new strategic plan.</p>							
<b>COMMENTS:</b>							
<p>Remaining Asset Management task for FY 2017 and FY 2018 is the implementation of the Info Master Water Program. Previously included Info Master sewer acquisition and implementation have been moved to a separate sewer CIP project.</p>							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
Expansion	40 %	0 %	0 %	0 %	40 %		
Betterment ID 22	0 %	60 %	0 %	0 %	60 %		
<b>TOTAL:</b>	40 %	60 %	0 %	0 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$912	\$25	\$20	\$0	\$0	\$0	\$957

CIP Number: P2486

**PROJECT SCHEDULE:**

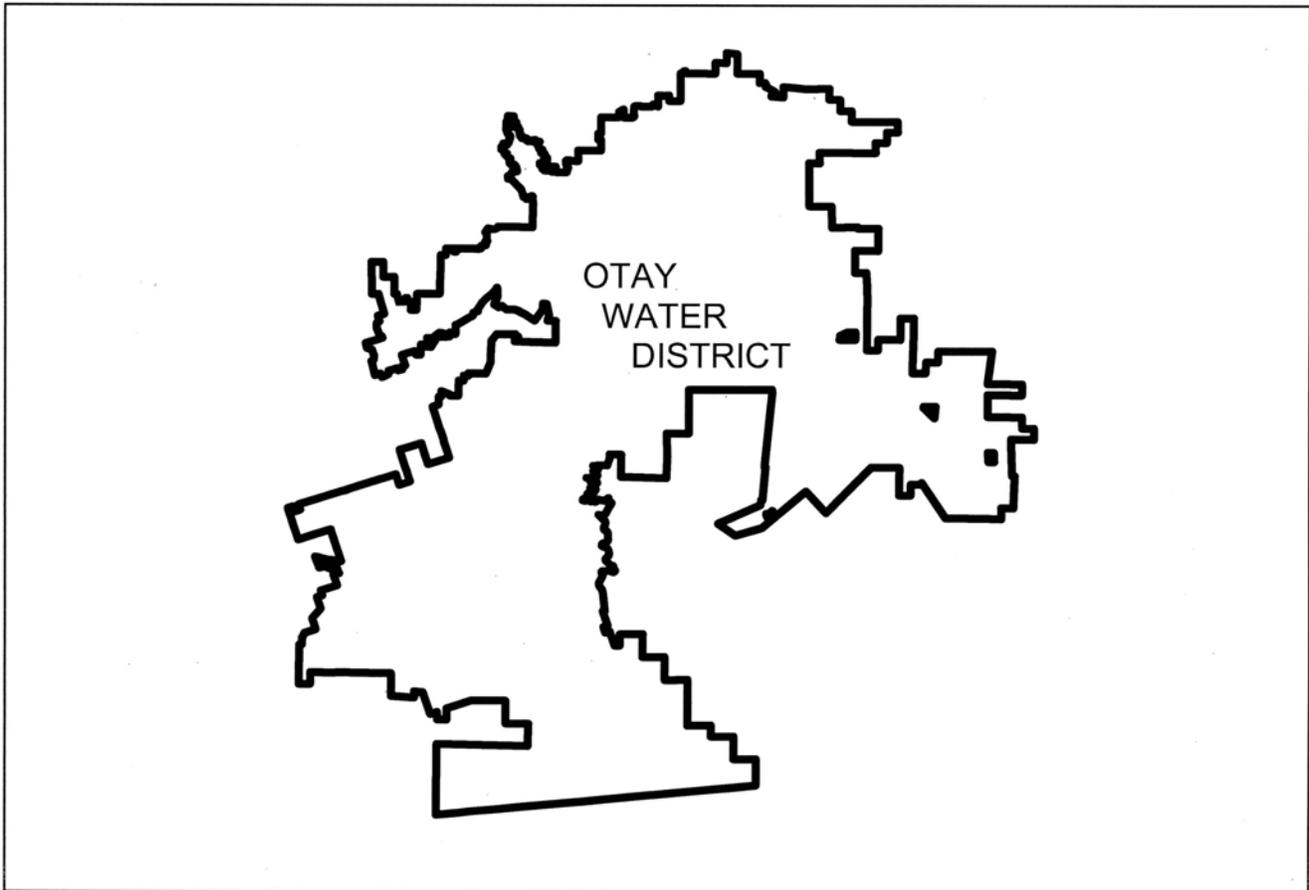
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2009	6/30/2018	\$957
DESIGN:			\$0
CONSTRUCTION:			\$0

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Jolene Fielding

**Date:** 4/19/2016

**PROJECT TITLE:** Multiple Species Conservation Plan

**CIP Number:** P2494

**DIRECTOR DIVISION:** 0

**PROJECT MANAGER:** Lisa Coburn-Boyd

**I.D. LOCATION:** District Wide

**ORIGINAL APPROVED DATE:** 5/21/2009

**PRIORITY:** 1

**RELATED CIP PROJECTS:** P2495

**BUDGET AMOUNT:** \$950,000

**DESCRIPTION OF PROJECT:**

This project is to develop a plan to streamline the environmental permitting processes for the Capital Improvement Program projects to be constructed.

**JUSTIFICATION OF PROJECT:**

The project will save time and money when compared to environmental permitting each Capital Improvement Program project individually.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Expansion	100 %	0 %	0 %	0 %	100 %
<b>TOTAL:</b>	100 %	0 %	0 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$882	\$48	\$20	\$0	\$0	\$0	\$950

**CIP Number: P2494**

**PROJECT SCHEDULE:**

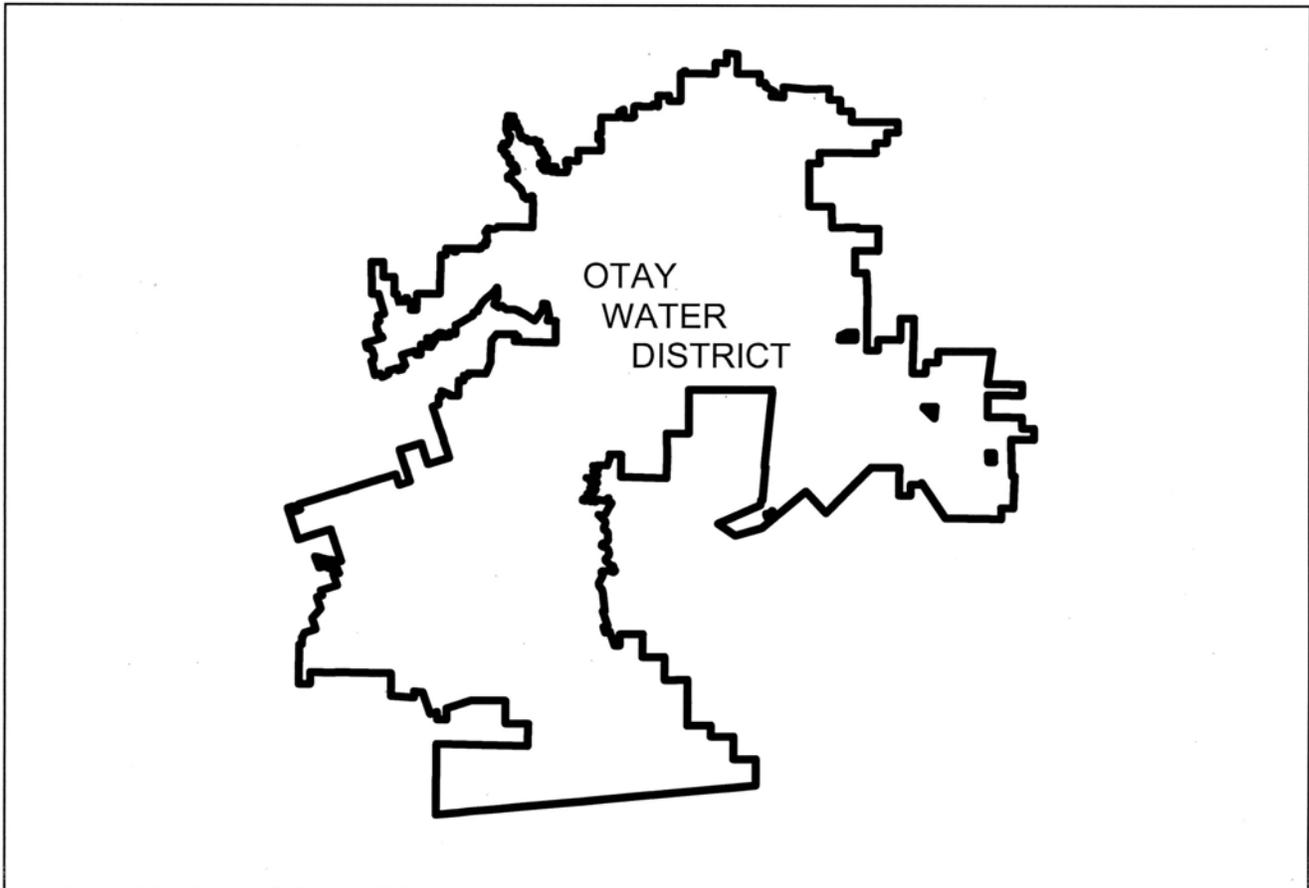
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>	7/1/2009	6/30/2018	\$950
<b>DESIGN:</b>			\$0
<b>CONSTRUCTION:</b>			\$0

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Jolene Fielding

**Date:** 5/16/2016

**PROJECT TITLE:** Otay Lakes Road Utility Relocations

**CIP Number:** P2496

**DIRECTOR DIVISION:** 4

**PROJECT MANAGER:** Dan Martin

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:** 5/21/2009

**PRIORITY:** 1

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$325,000

**DESCRIPTION OF PROJECT:**

This project is for all utility relocations required to accommodate the City of Chula Vista Road Improvement project located along Otay Lakes Road and Telegraph Canyon Road.

**JUSTIFICATION OF PROJECT:**

The Otay Water District will be required to relocate all conflicting systems, at its own expense, as the City of Chula Vista has prior and superior rights.

**COMMENTS:**

Work under construction.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$300	\$5	\$20	\$0	\$0	\$0	\$325

CIP Number: P2496

**PROJECT SCHEDULE:**

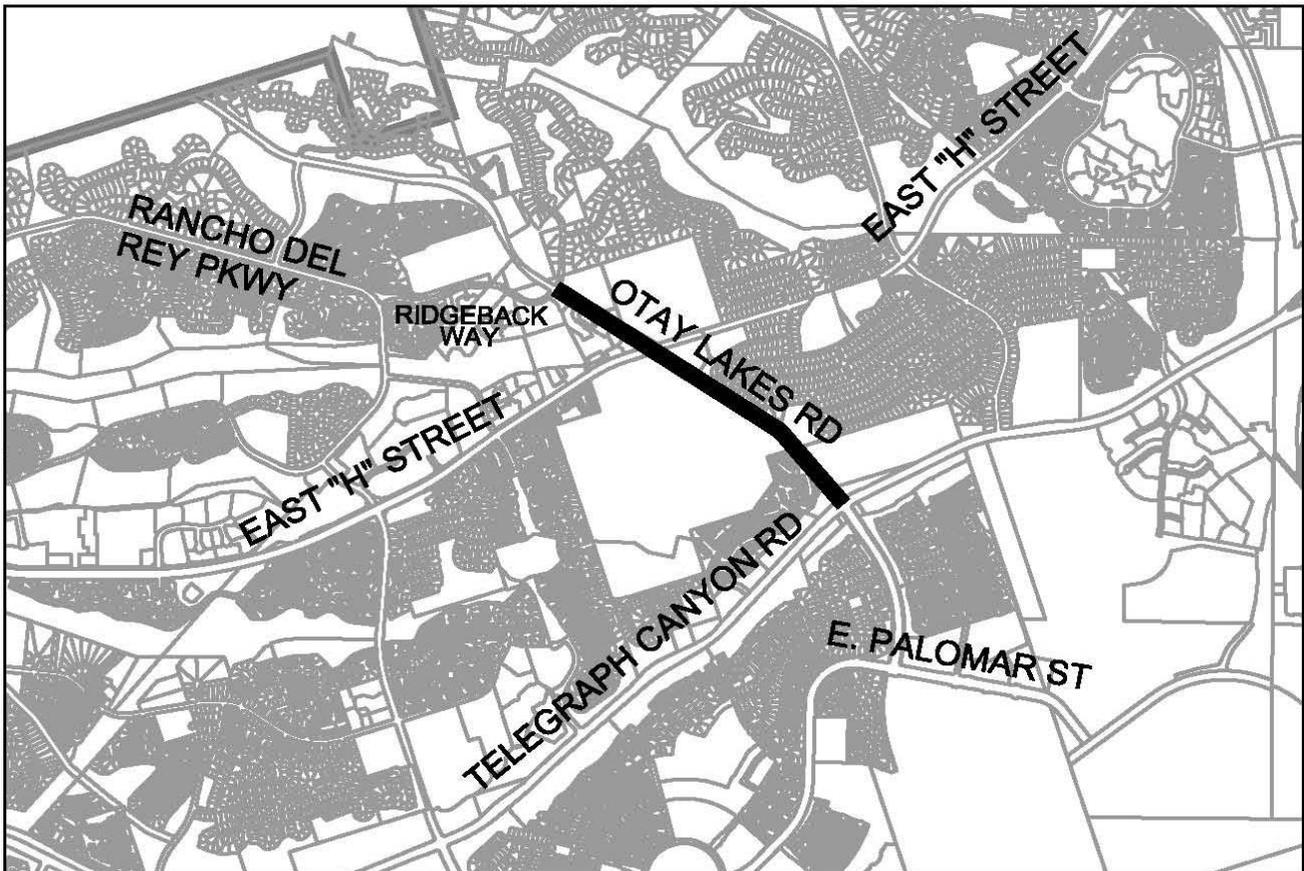
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2009	8/1/2009	\$4
DESIGN:	9/1/2009	12/1/2009	\$11
CONSTRUCTION:	1/1/2010	6/30/2018	\$310

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 113**



**Submitted By:** Jolene Fielding

**Date:** 5/16/2016

**PROJECT TITLE:** Regulatory Site Access Road and Pipeline Relocation

**CIP Number:** P2504

**DIRECTOR DIVISION:** 5

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:** 5/17/2010

**PRIORITY:** 1

**RELATED CIP PROJECTS:** P2466

**BUDGET AMOUNT:** \$900,000

**DESCRIPTION OF PROJECT:**

This project is to improve the existing access road from the proposed sheriff substation site to the Regulatory Reservoir Site.

**JUSTIFICATION OF PROJECT:**

Improving the existing access road will provide for increased safety and all weather permanent access to the Regulatory Reservoir Site.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	50 %	0 %	50 %
Betterment ID 22	0 %	50 %	0 %	0 %	50 %
<b>TOTAL:</b>	0 %	50 %	50 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$330	\$20	\$330	\$120	\$100	\$0	\$900

CIP Number: P2504

**PROJECT SCHEDULE:**

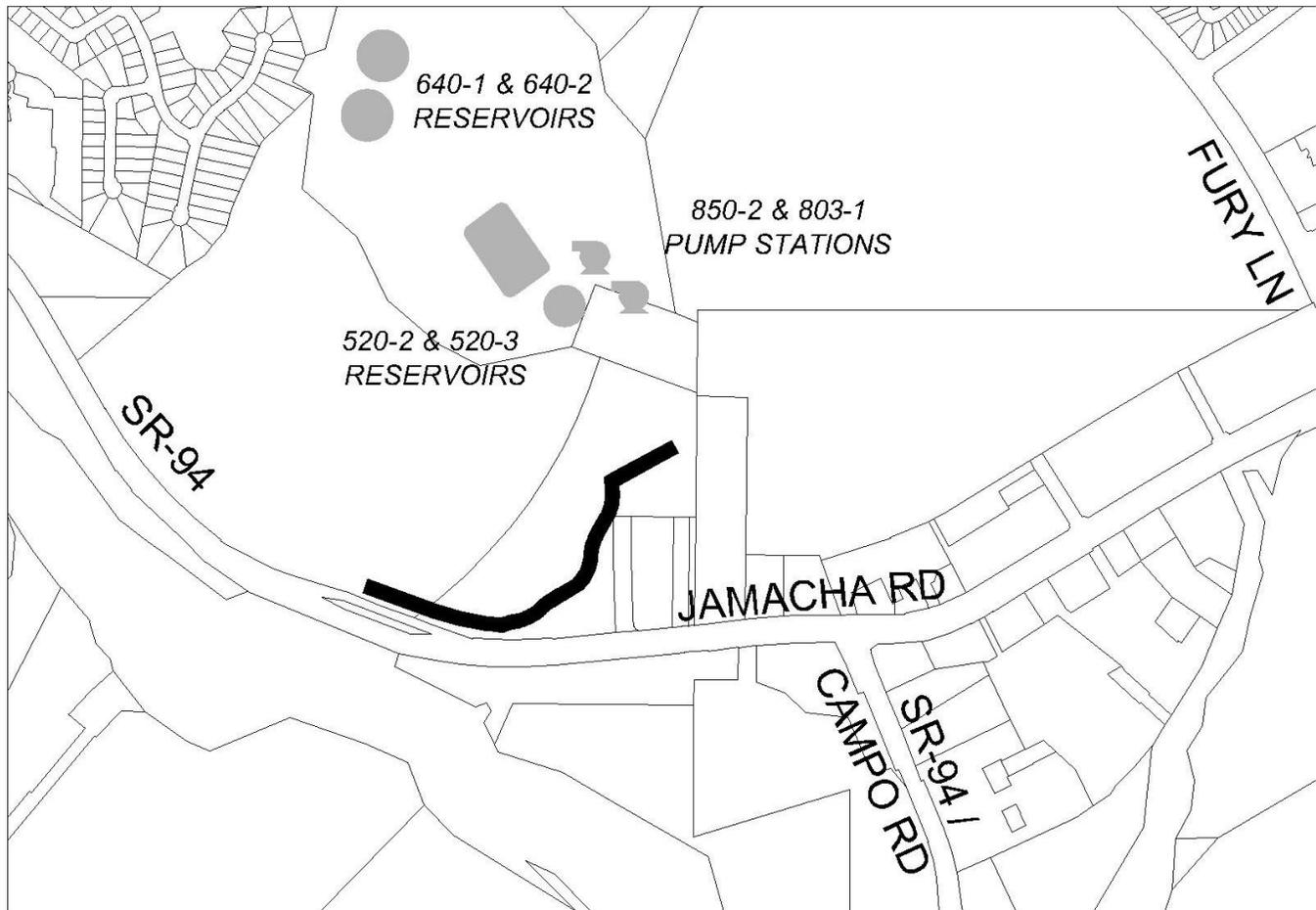
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2010	9/1/2010	\$85
DESIGN:	10/1/2010	12/31/2017	\$275
CONSTRUCTION:	1/1/2018	6/30/2020	\$540

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

OWD Map Book: 331



Submitted By: Steve Beppler

Date: 4/21/2016

**PROJECT TITLE:** PL - 12-Inch, 640 Zone, Jamacha Road - Darby/Osage

**CIP Number:** P2516

**DIRECTOR DIVISION:** 3

**PROJECT MANAGER:** Jeff Marchioro

**I.D. LOCATION:**

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 3

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$800,000

**DESCRIPTION OF PROJECT:**

This project is for construction of approximately 1,250 feet of 12-inch pipeline in Jamacha Road and Osage Drive in the 640 Pressure Zone.

**JUSTIFICATION OF PROJECT:**

The existing pipelines are located in easements in the side yards of homes. The pipelines are a risk and liability to the District if they were to fail.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$0	\$0	\$75	\$100	\$625	\$800

CIP Number: P2516

**PROJECT SCHEDULE:**

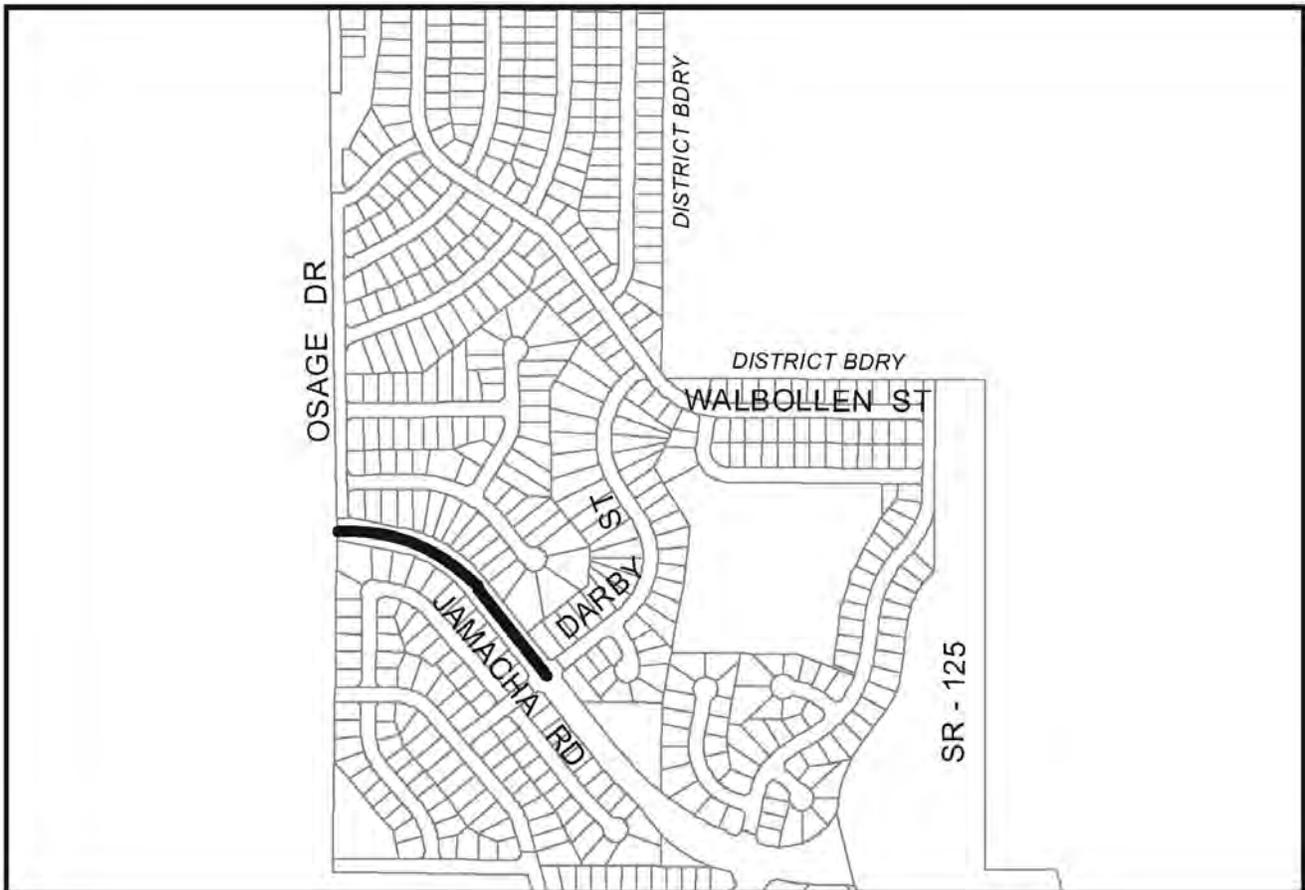
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2019	6/30/2020	\$75
DESIGN:	7/1/2020	6/30/2021	\$100
CONSTRUCTION:	7/1/2021	6/30/2023	\$625

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 301**



**Submitted By:** Jolene Fielding

**Date:** 5/10/2016

**PROJECT TITLE: Motorola Mobile Radio Upgrade**

**CIP Number: P2520**

**DIRECTOR DIVISION: 0**

**PROJECT MANAGER: Jose Martinez**

**I.D. LOCATION: District Wide**

**ORIGINAL APPROVED DATE: 5/16/2011**

**PRIORITY: 1**

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT: \$120,000**

**DESCRIPTION OF PROJECT:**

This project is for Motorola radio upgrades which involves three components, radio repeater upgrade, portable and base unit upgrades, and vehicle mobile radio upgrades.

**JUSTIFICATION OF PROJECT:**

The existing Motorola radio equipment is an essential part of the District's Emergency Response Program. A recent assessment of the radio equipment has determined that the equipment has reached the end of its useful life and needs upgrades.

**COMMENTS:**

The remaining work includes adding some additional VHF radios at pump stations that are not able to have a copper telephone (red phone) as well as augment the EOC and some management with RCS 800 MHZ radios.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$90	\$30	\$0	\$0	\$0	\$0	\$120

**CIP Number: P2520**

**PROJECT SCHEDULE:**

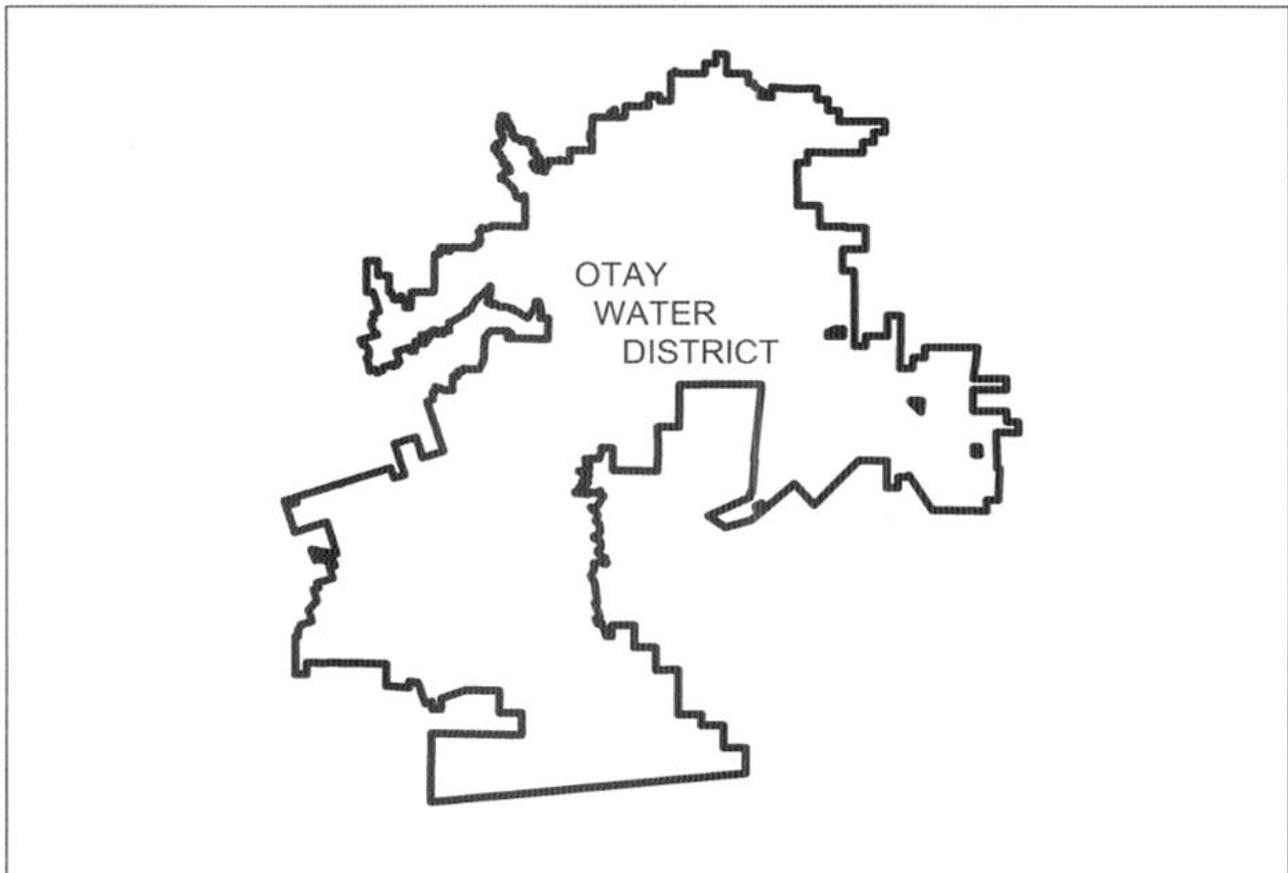
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>			\$0
<b>DESIGN:</b>			\$0
<b>CONSTRUCTION:</b>	8/1/2011	6/30/2017	\$120

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Donald Bienvenue

**Date:** 3/4/2016

**PROJECT TITLE:** Large Meter Vault Upgrade Program

**CIP Number:** P2521

**DIRECTOR DIVISION:** 0

**PROJECT MANAGER:** Roger Holly

**I.D. LOCATION:** District Wide

**ORIGINAL APPROVED DATE:** 5/16/2011

**PRIORITY:** 1

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$400,000

**DESCRIPTION OF PROJECT:**

This project is for the retrofit and upgrade of approximately 50 large meter vaults to either above ground conditions or eliminate the confined space depth.

**JUSTIFICATION OF PROJECT:**

The existing large meters are installed in below grade vaults which create increased costs and safety issues due to confined space requirements. Some of the existing below grade systems are subject to flooding and create corrosive environments.

**COMMENTS:**

This is a re-activation of previous CIP. Staff will be looking at vaults again to see if additional meters can be brought above ground or retrofits done to eliminate the confined space requirement.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$100	\$100	\$100	\$0	\$0	\$400

**CIP Number: P2521**

**PROJECT SCHEDULE:**

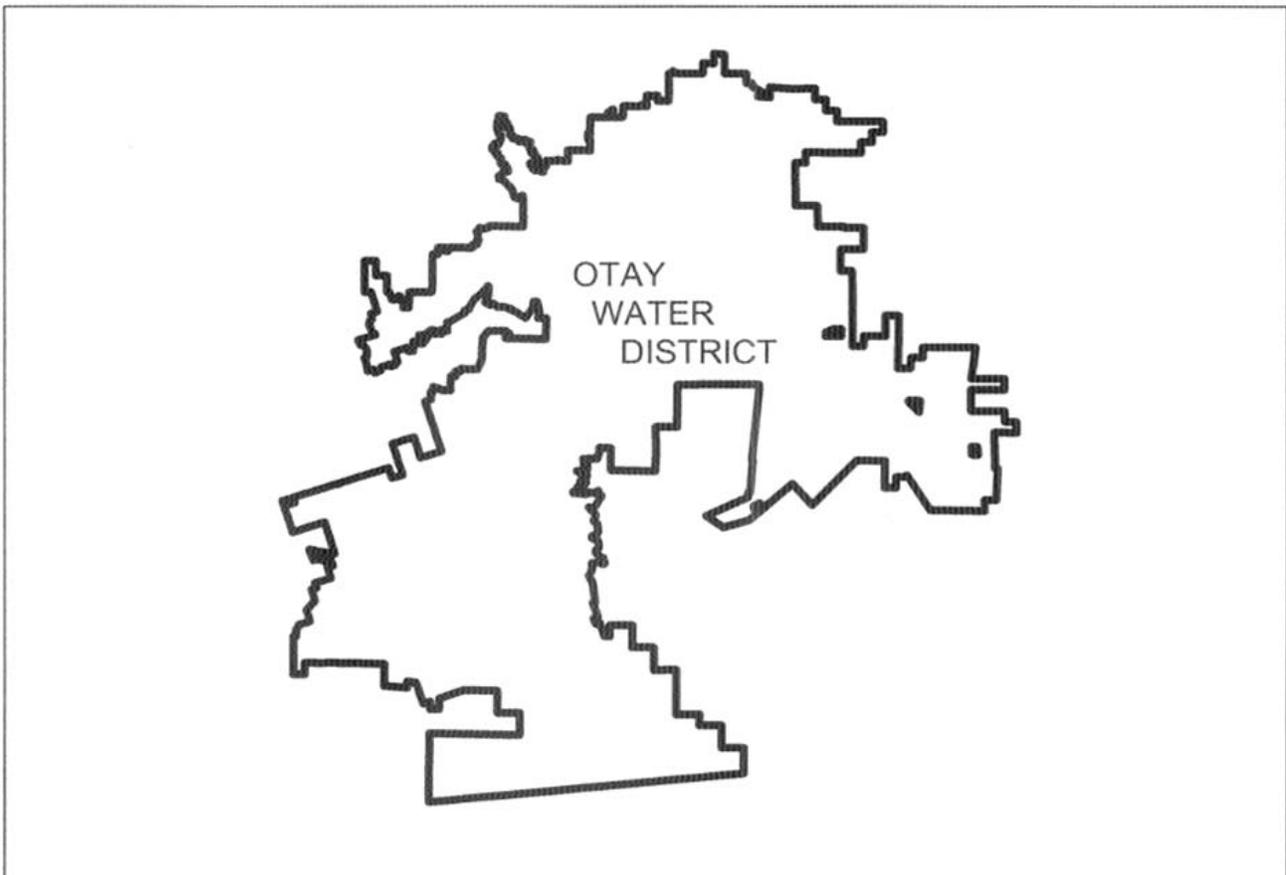
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>			\$0
<b>DESIGN:</b>			\$0
<b>CONSTRUCTION:</b>	8/1/2016	6/1/2020	\$400

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Bill Poulin

**Date:** 6/2/2016

**PROJECT TITLE: Operations Yard Property Acquisition Improvements**

**CIP Number: P2537**

**PROJECT MANAGER:** Stephen Beppler

**DIRECTOR DIVISION:** 4

**ORIGINAL APPROVED DATE:** 11/13/2008

**I.D. LOCATION:** 22

**RELATED CIP PROJECTS:** P2479

**PRIORITY:** 1

**BUDGET AMOUNT:** \$775,000

**DESCRIPTION OF PROJECT:**

This project will provide site improvements, including fencing, grading, and paving for vehicle parking and equipment storage. After the one year warranty has expired, the District's Administration and Operations parking lots will be slurry sealed and restriped.

**JUSTIFICATION OF PROJECT:**

The site improvements are required to provide flexibility in operations and for future expansion purposes.

**COMMENTS:**

Construction projected to be completed during FY 2016, with potential carry over of punchlist items into FY 2017 along with warranty inspection.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Betterment ID 22	0 %	100 %	0 %	0 %	100 %
<b>TOTAL:</b>	0 %	100 %	0 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$765	\$10	\$0	\$0	\$0	\$0	\$775

CIP Number: P2537

**PROJECT SCHEDULE:**

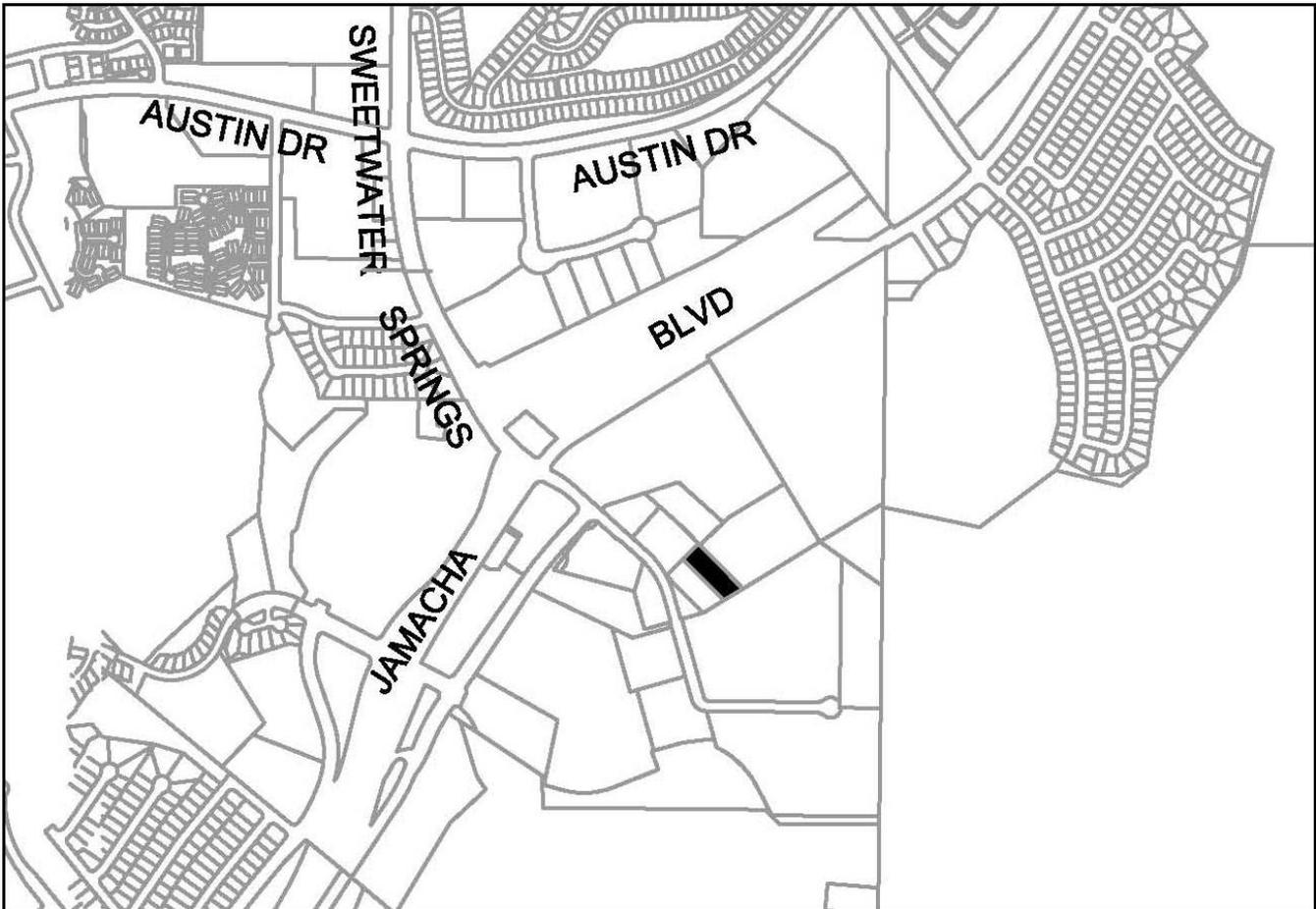
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	6/1/2008	6/30/2014	\$15
DESIGN:	7/1/2014	11/30/2015	\$185
CONSTRUCTION:	12/1/2015	6/30/2016	\$575

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$1	\$0	\$0	\$1
ENERGY:	\$700	\$725	\$750	\$775	\$800	\$800	\$4,550
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 318**



**Submitted By:** Bob Kennedy

**Date:** 5/12/2016

<b>PROJECT TITLE: 624 Pressure Zone PRSs</b>		<b>CIP Number: P2541</b>					
<b>PROJECT MANAGER:</b> Jeff Marchioro		<b>DIRECTOR DIVISION:</b> 2		<b>I.D. LOCATION:</b> 22		<b>PRIORITY:</b> 1	
<b>ORIGINAL APPROVED DATE:</b>		<b>BUDGET AMOUNT:</b> \$760,000					
<b>RELATED CIP PROJECTS:</b> P2434							
<b>DESCRIPTION OF PROJECT:</b>							
<p>This project will provide two pressure reducing stations feeding the 458 and 485 Pressure Zones from the 624 Pressure Zone (Sequoia &amp; Brandywine 624/458 PRS and Terra Nova Drive 624/485 PRS, respectively).</p>							
<b>JUSTIFICATION OF PROJECT:</b>							
<p>This project would upgrade the 458 and 485 Pressure Zones to improve fire flow and enhance system reliability. The 624/485 PRS project will also improve blending and distribution of treated water from the future Rancho Del Rey Groundwater Well (CIP P2434).</p>							
<b>COMMENTS:</b>							
<p>Overall budget increased since construction project on track to complete in FY 2016. Small budget added for warranty inspection in FY 2017.</p>							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
Betterment ID 22	0 %	100 %	0 %	0 %	100 %		
<b>TOTAL:</b>	0 %	100 %	0 %	0 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$750	\$10	\$0	\$0	\$0	\$0	\$760

CIP Number: P2541

PROJECT SCHEDULE:

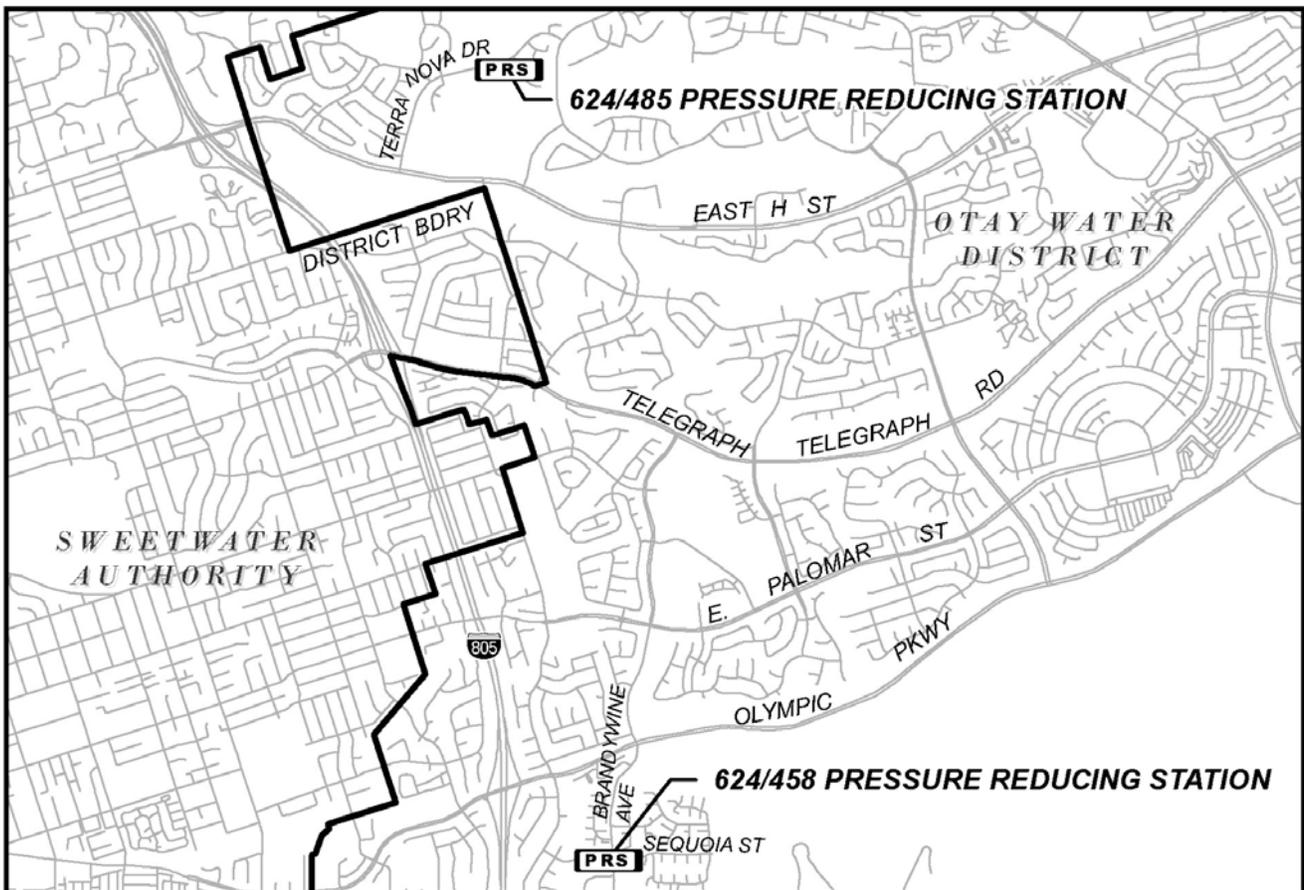
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2013	6/30/2014	\$2
DESIGN:	7/1/2014	8/31/2015	\$220
CONSTRUCTION:	9/1/2015	7/30/2016	\$538

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 127



Submitted By: OTAY\Jeff.Marchioro

Date: 5/16/2016

<b>PROJECT TITLE:</b> District Administration Vehicle Charging Stations		<b>CIP Number:</b> P2547					
<b>PROJECT MANAGER:</b> Stephen Beppler		<b>DIRECTOR DIVISION:</b> 3		<b>I.D. LOCATION:</b> 22		<b>PRIORITY:</b> 1	
<b>ORIGINAL APPROVED DATE:</b>		<b>BUDGET AMOUNT:</b> \$125,000					
<b>DESCRIPTION OF PROJECT:</b>							
This project is for the construction of four (4) electric vehicle charging stations at the lower Administration parking lot.							
<b>JUSTIFICATION OF PROJECT:</b>							
Alternative fueled vehicles are becoming more common, with electric only vehicles making up a significant portion of these. To support the needs of these vehicles and their limited driving range, the District proposes installing vehicle charging stations to allow employees to consider using for their commute.							
<b>COMMENTS:</b>							
\$1K Permit \$81K Engineer's Estimate \$14K Design Fee \$29K Staff time, inspection and contingency							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
Expansion	40 %	0 %	0 %	0 %	40 %		
Betterment ID 22	0 %	60 %	0 %	0 %	60 %		
<b>TOTAL:</b>	40 %	60 %	0 %	0 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$20	\$85	\$20	\$0	\$0	\$0	\$125

CIP Number: P2547

**PROJECT SCHEDULE:**

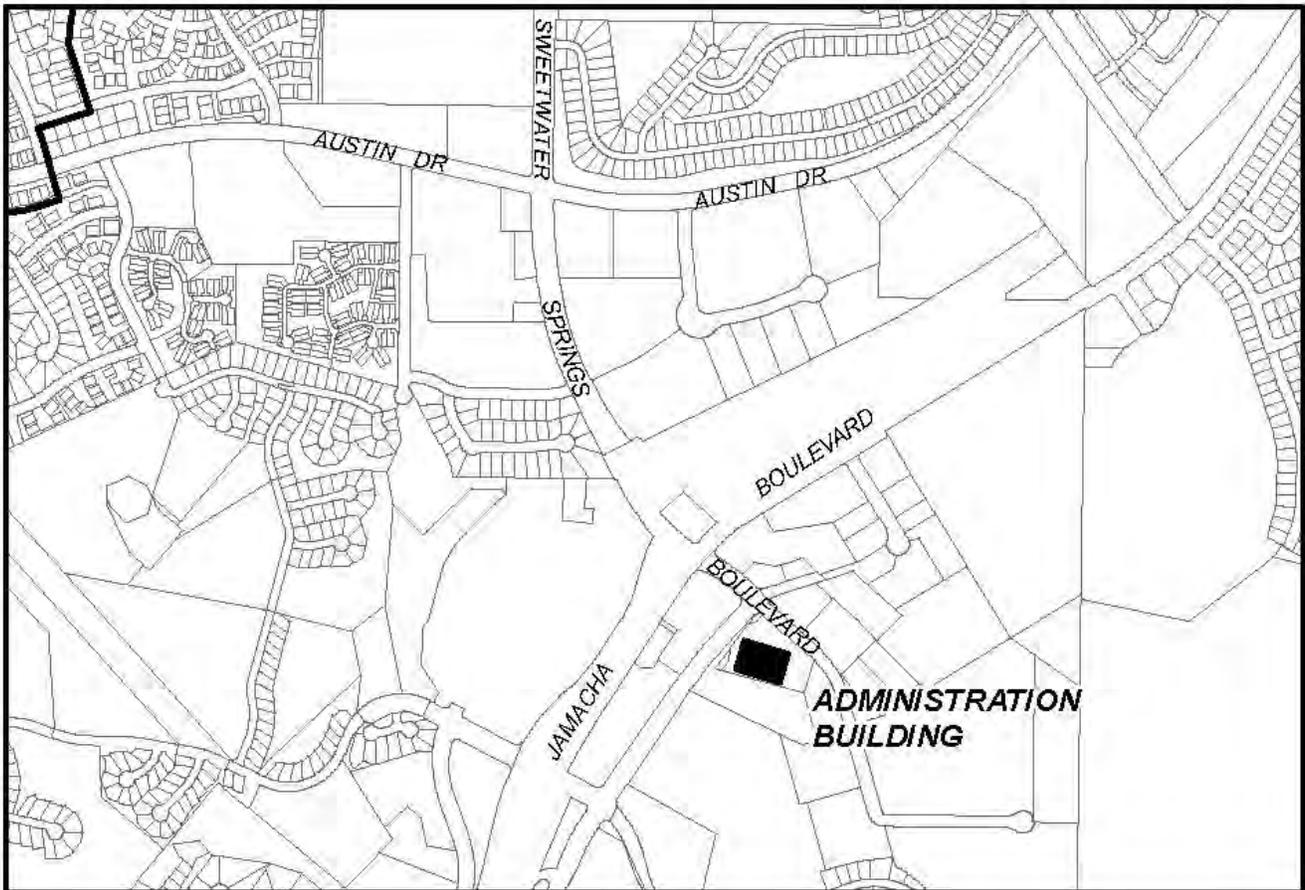
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2014	6/30/2015	\$10
DESIGN:	7/1/2015	12/31/2016	\$15
CONSTRUCTION:	1/1/2017	6/30/2018	\$100

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$200	\$200	\$200	\$200	\$200	\$200	\$1,200
ENERGY:	\$500	\$500	\$500	\$500	\$500	\$500	\$3,000
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 318**



**Submitted By:** Bob Kennedy

**Date:** 5/12/2016

<b>PROJECT TITLE:</b> Fuel Island Upgrade	<b>CIP Number:</b> P2550
<b>PROJECT MANAGER:</b> Kent Payne	<b>DIRECTOR DIVISION:</b> 3
<b>ORIGINAL APPROVED DATE:</b>	<b>I.D. LOCATION:</b> 22
<b>RELATED CIP PROJECTS:</b> P2549	<b>PRIORITY:</b> 1
	<b>BUDGET AMOUNT:</b> \$112,000

**DESCRIPTION OF PROJECT:**  
This project is to upgrade the District's fuel system, both in the vehicles as well as the fuel island dispensers, sumps, and island.

**JUSTIFICATION OF PROJECT:**  
This work is needed to comply with County requirements for the operation of the fuel island. This project will allow any employee to fill a District vehicle with no training. Authorizations and transactions will be done wireless so electrical lines run through the fuel hoses or ground loops will be used and it will also allow Management tighter control on the dispensing of fuel by placing limits on types of fueling and have better reporting features.

**COMMENTS:**  
Work to improve the secondary containment and dispensing equipment in accordance with District/County Settlement agreement. Budget increased from \$75K to \$112K based on bids received and additional regulatory compliance needs.

Construction \$104,000  
Fire Permit \$1,000  
APCD Permit \$1,300  
DEH Permit \$1,700  
County Fees \$500 (encroachment if necessary)  
Temp Fuel \$1,000 (permit for tank/dispenser)  
Misc. Exp. \$2,500 (fuel tank/dispenser rental, etc.)

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$112	\$0	\$0	\$0	\$0	\$112

CIP Number: P2550

**PROJECT SCHEDULE:**

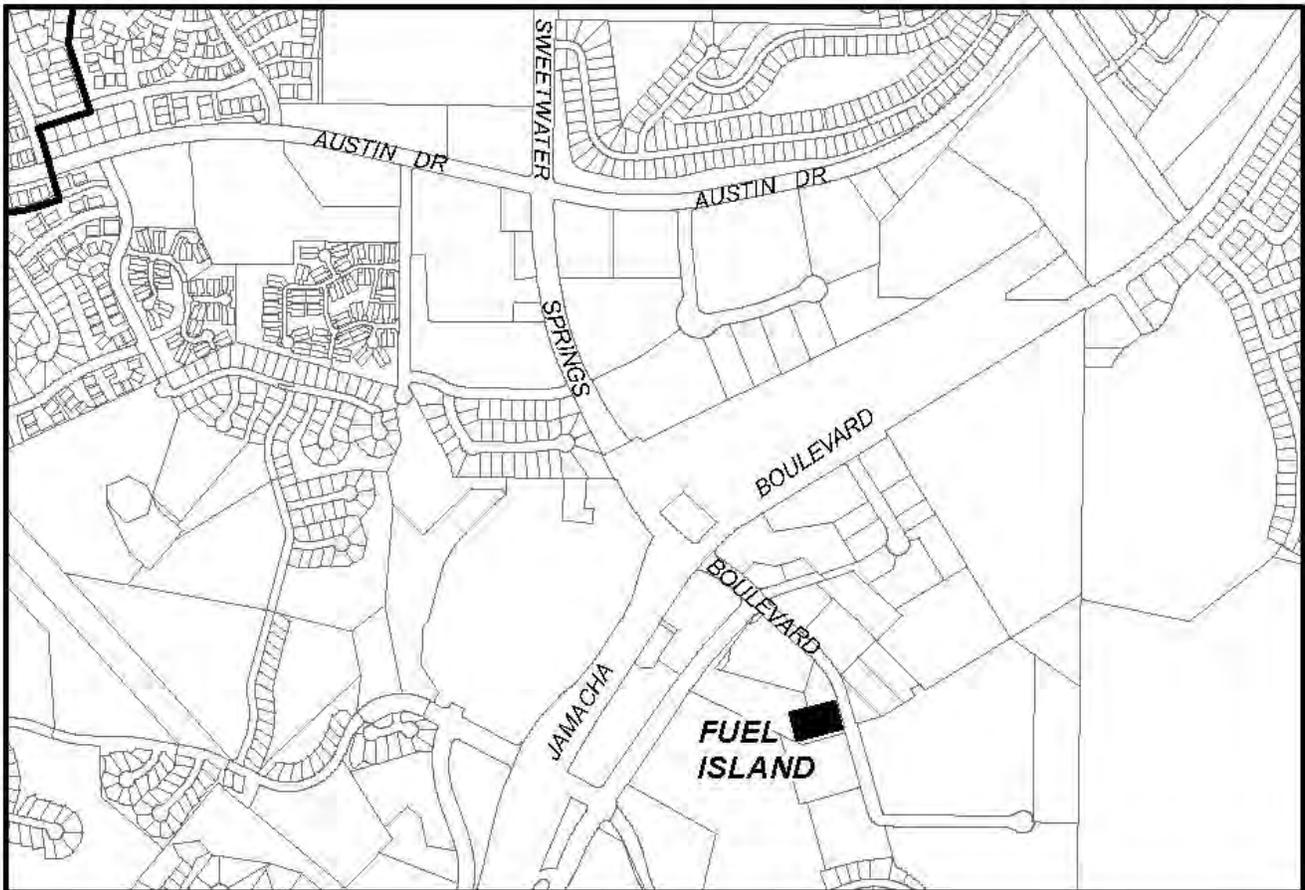
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2016	7/31/2016	\$5
DESIGN:	8/1/2016	9/30/2016	\$17
CONSTRUCTION:	10/1/2016	3/31/2017	\$90

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 318**



**Submitted By:** Jolene Fielding

**Date:** 5/10/2016

**PROJECT TITLE:** Blossom Lane Helix WD and Otay WD Interconnection

**CIP Number:** P2551

**PROJECT MANAGER:** Stephen Beppler

**DIRECTOR DIVISION:** 3

**ORIGINAL APPROVED DATE:**

**I.D. LOCATION:** 22

**RELATED CIP PROJECTS:** P2552

**PRIORITY:** 2

**BUDGET AMOUNT:** \$210,000

**DESCRIPTION OF PROJECT:**

This project is to upgrade the meter, vault, telemetry and other interconnection appurtenances to meet current standards.

**JUSTIFICATION OF PROJECT:**

To upgrade the existing interconnection to meet current standards.

**COMMENTS:**

Project completion extended into FY 2017 for warranty period and programming of SCADA (added \$10K for this, missing from scope of work).

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Betterment ID 22	0 %	100 %	0 %	0 %	100 %
<b>TOTAL:</b>	0 %	100 %	0 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$190	\$20	\$0	\$0	\$0	\$0	\$210

CIP Number: P2551

PROJECT SCHEDULE:

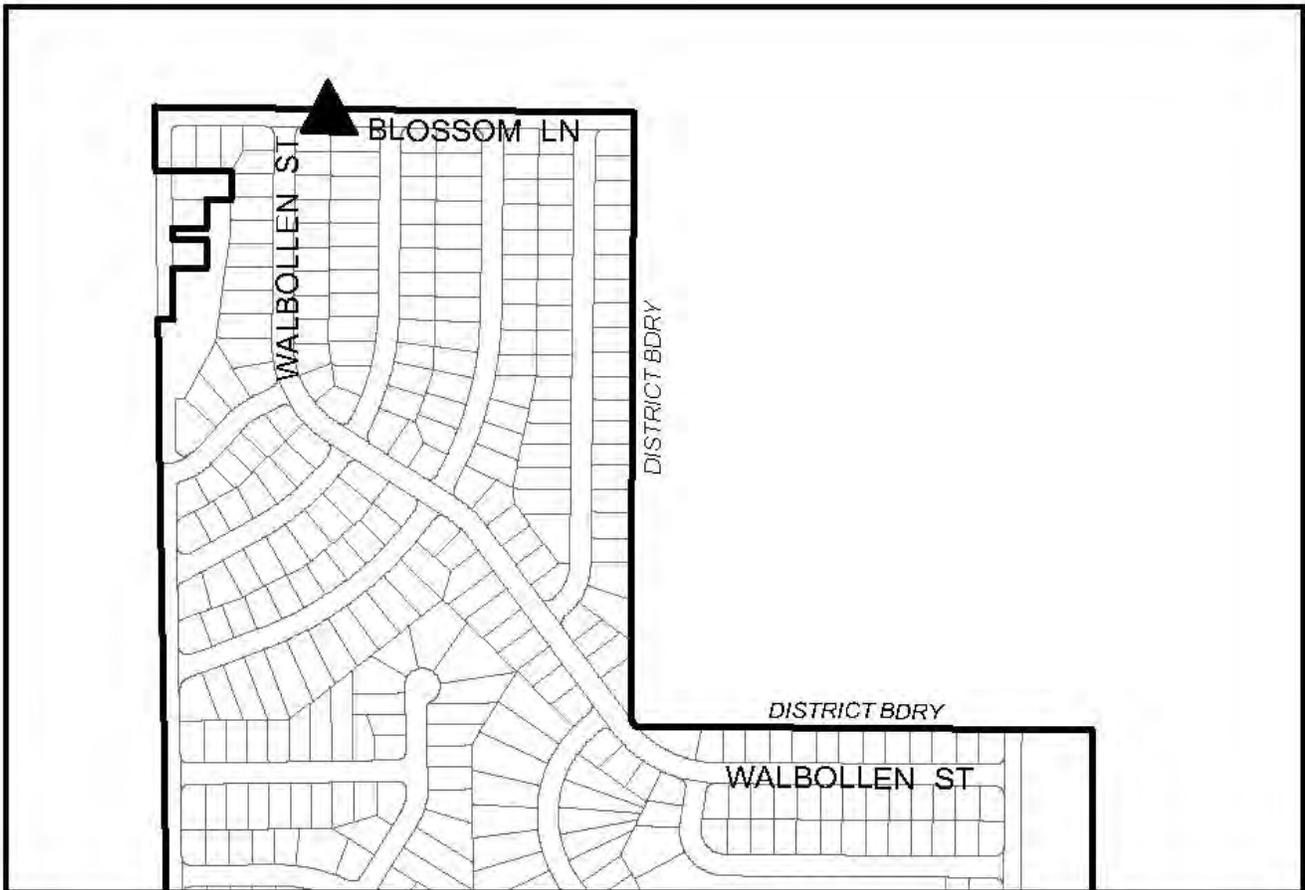
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2014	6/30/2015	\$5
DESIGN:	7/1/2015	2/28/2016	\$25
CONSTRUCTION:	3/1/2016	6/30/2017	\$180

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 315



Submitted By: Jolene Fielding

Date: 5/10/2016

**PROJECT TITLE:** South Barcelona Helix WD and Otay WD Interconnection **CIP Number:** P2552

**DIRECTOR DIVISION:** 3

**PROJECT MANAGER:** Stephen Beppler

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 1

**RELATED CIP PROJECTS:** P2551

**BUDGET AMOUNT:** \$210,000

**DESCRIPTION OF PROJECT:**

This project is to upgrade the meter, telemetry, vault, and other interconnection appurtenances to current standards.

**JUSTIFICATION OF PROJECT:**

To upgrade the existing interconnection to meet current standards.

**COMMENTS:**

Project completion extended into FY 2017 for warranty period and programming of SCADA (added \$10K for this, missing from scope of work).

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Betterment ID 22	0 %	100 %	0 %	0 %	100 %
<b>TOTAL:</b>	0 %	100 %	0 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$190	\$20	\$0	\$0	\$0	\$0	\$210

CIP Number: P2552

**PROJECT SCHEDULE:**

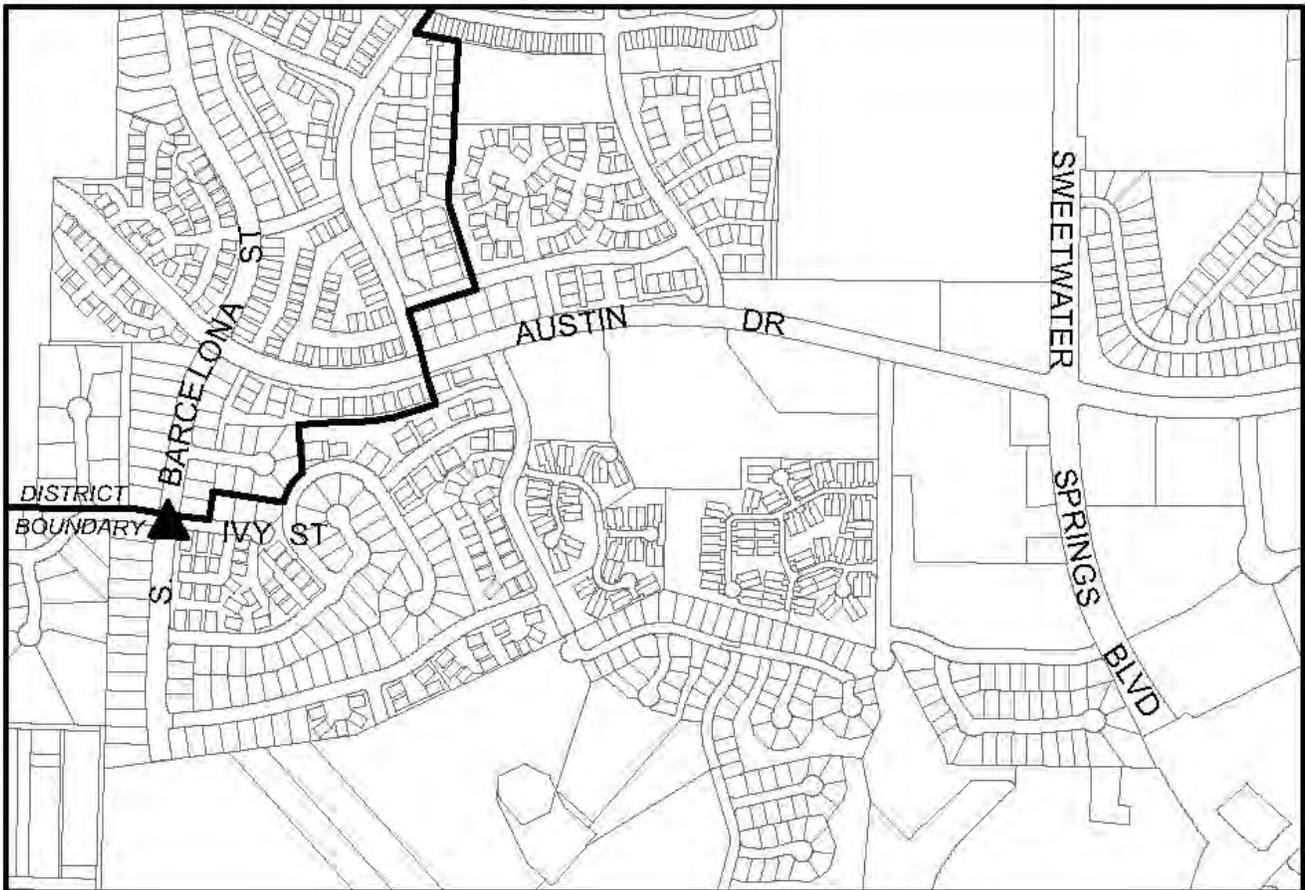
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2014	6/30/2015	\$5
DESIGN:	7/1/2015	2/28/2016	\$30
CONSTRUCTION:	3/1/2016	8/31/2016	\$175

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 317**



**Submitted By:** Jolene Fielding

**Date:** 5/10/2016

**PROJECT TITLE:** Heritage Road Bridge Replacement and Utility Relocation

**CIP Number:** P2553

**PROJECT MANAGER:** Kevin Cameron

**DIRECTOR DIVISION:** 2

**ORIGINAL APPROVED DATE:**

**I.D. LOCATION:** 22

**RELATED CIP PROJECTS:**

**PRIORITY:** 2

**BUDGET AMOUNT:** \$1,430,000

**DESCRIPTION OF PROJECT:**

The existing 16-Inch potable water pipeline to Sleep-Train Amphitheatre and Aquatica Seaworld’s Waterpark was built under the Otay River.

The City of Chula Vista is planning to replace the Heritage Road Bridge (Project No. STM-364). The District has requested the City reserve room in the bridge for a 16-inch steel pipeline for potable water use and an 8-inch pipeline for future recycled water use. In addition to the bridge crossing, approximately 1,600 linear feet of 16-inch potable water pipeline is required. An existing 16-inch ACP pipeline in Otay River will be abandoned or converted to recycled water use.

**JUSTIFICATION OF PROJECT:**

A new bridge crossing of the Otay River at Heritage Road provides an opportunity for the District to relocate a pipeline out of the river into a more secure location and also provides an economical way to build a recycled water pipeline to these commercial customers.

**COMMENTS:**

Budget increased from \$1.2M to \$1.43M to reflect latest projected costs and scope of work.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>							
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>	
	\$5	\$100	\$380	\$685	\$260	\$0	\$0	\$1,430

CIP Number: P2553

PROJECT SCHEDULE:

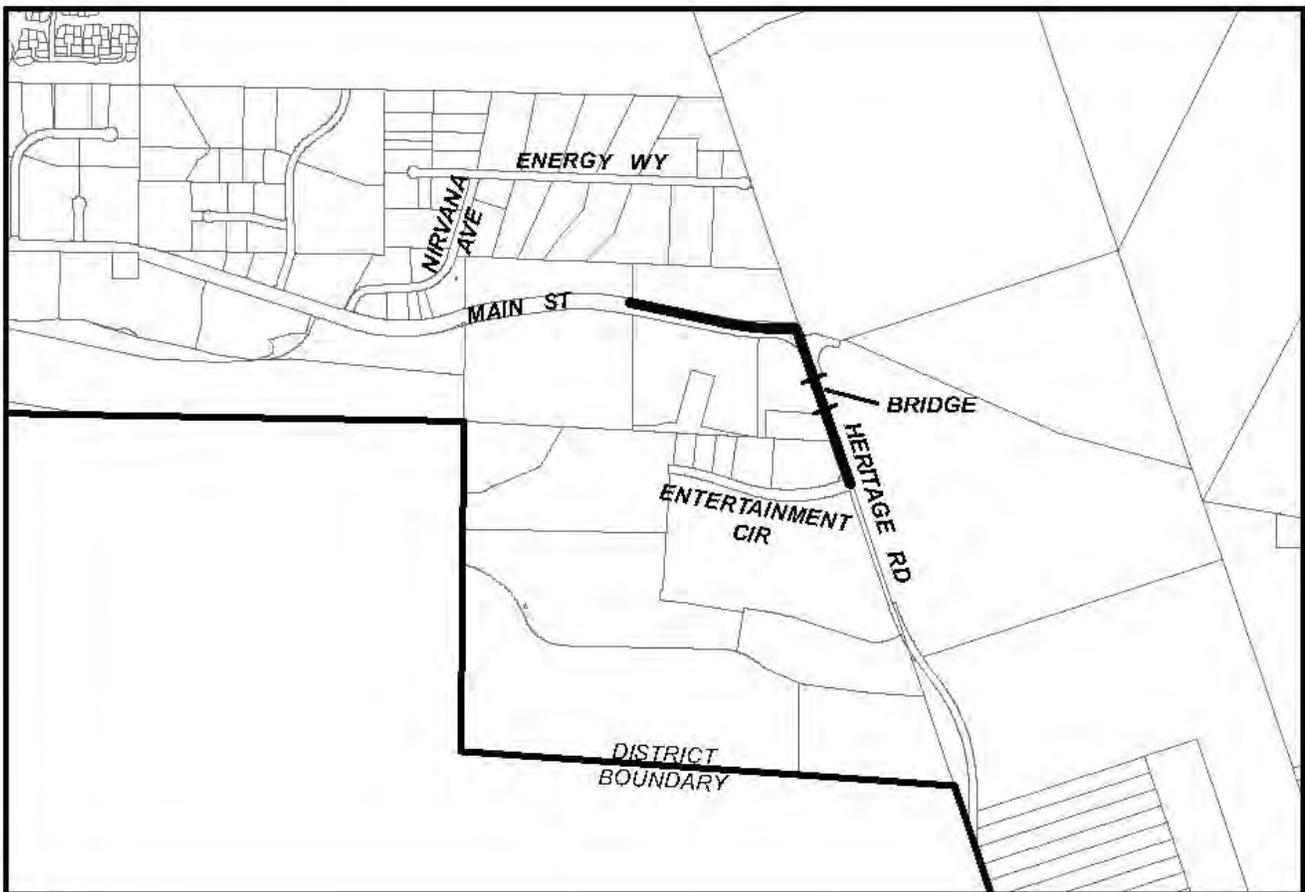
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2014	12/30/2016	\$50
DESIGN:	1/2/2017	3/7/2018	\$385
CONSTRUCTION:	3/8/2018	6/30/2020	\$995

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 50 & 51



Submitted By: Jolene Fielding

Date: 5/10/2016

<b>PROJECT TITLE:</b> Administration Carpet Replacement Program		<b>CIP Number:</b> P2564					
<b>PROJECT MANAGER:</b> Kent Payne		<b>DIRECTOR DIVISION:</b> 3		<b>I.D. LOCATION:</b> 22		<b>PRIORITY:</b> 2	
<b>ORIGINAL APPROVED DATE:</b>		<b>BUDGET AMOUNT:</b> \$215,000					
<b>DESCRIPTION OF PROJECT:</b>							
<p>This project covers material and labor costs for a phased replacement of the existing carpet in the following areas and in order of need: Customer Service; Finance; GM Suite; Admin Services; Engineering; and Training Room. Materials specified include commercial grade carpet tile and broadloom. Installation has little to no impact on daily operations with cubicle lift-in-place technologies and night/weekend work.</p>							
<b>JUSTIFICATION OF PROJECT:</b>							
<p>The existing carpet was installed in 1997 during the Headquarters expansion and remodel. Normal carpet lifespan is 10-12 years; at 18 years, Admin carpet is 150-180% lifespan and shows its age including deep wear patterns with areas of backing separation, indelible stains, and extreme fading as noted with recent cubicle removal and planned removal due to downsizing.</p>							
<b>COMMENTS:</b>							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
Replacement	0 %	0 %	100 %	0 %	100 %		
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$5	\$210	\$0	\$0	\$0	\$215

CIP Number: P2564

PROJECT SCHEDULE:

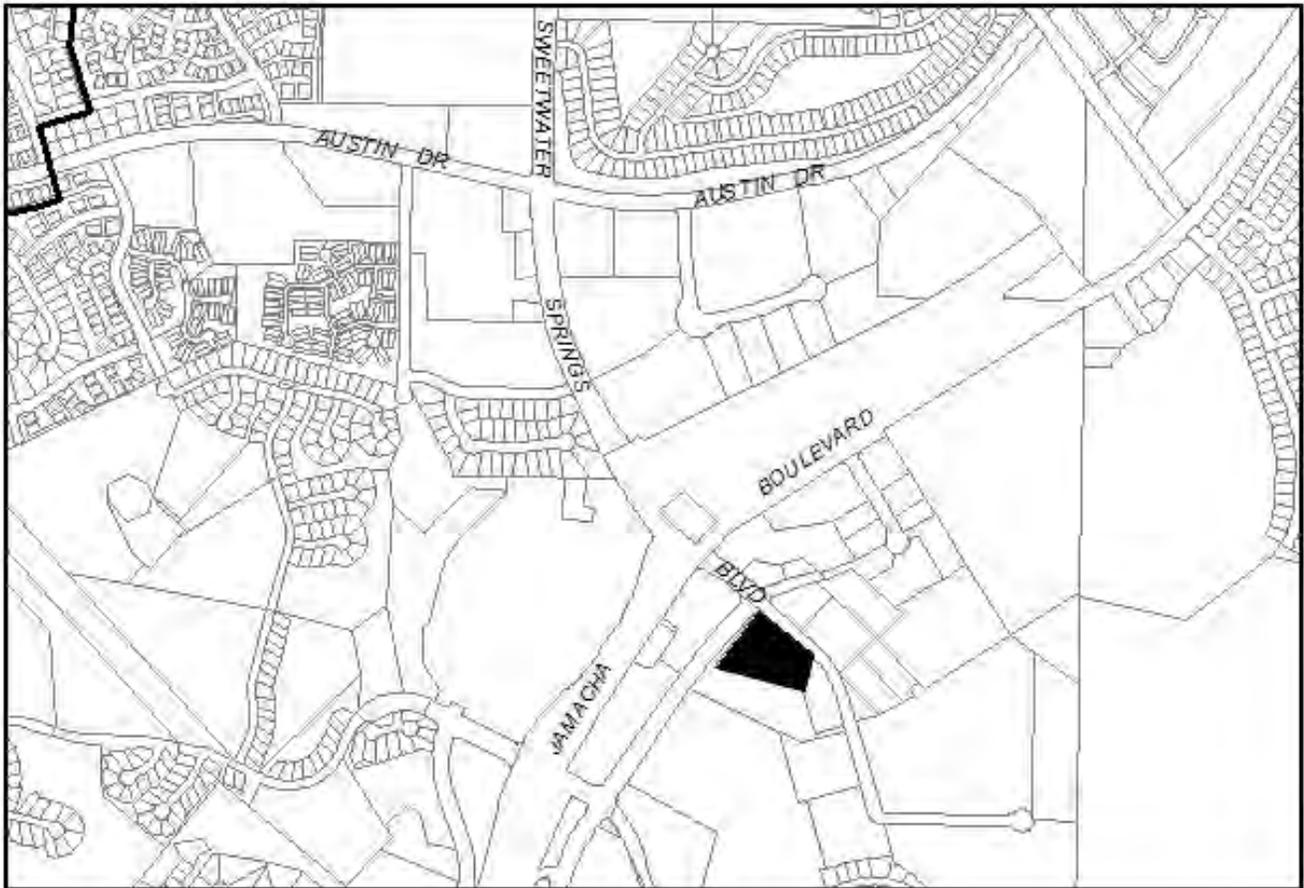
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:			\$0
DESIGN:			\$0
CONSTRUCTION:	7/1/2017	6/30/2018	\$215

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 318



Submitted By: Jolene Fielding

Date: 4/19/2016

**OTAY WATER DISTRICT  
CAPITAL IMPROVEMENT PROGRAM**

<b>PROJECT TITLE:</b> Technology Business Processes Improvement	<b>CIP Number:</b> P2568
<b>PROJECT MANAGER:</b> Michael Kerr	<b>DIRECTOR DIVISION:</b> 0
<b>ORIGINAL APPROVED DATE:</b>	<b>I.D. LOCATION:</b> District Wide
<b>RELATED CIP PROJECTS:</b>	<b>PRIORITY:</b> 2
	<b>BUDGET AMOUNT:</b> \$135,000

**DESCRIPTION OF PROJECT:**

This project is to advance business processes and operational efficiencies through effective implementation of information technology with assistance from integrated workflow tools, document management solutions, and standardization.

**JUSTIFICATION OF PROJECT:**

(YR1/YR2) - Redesign of Business Process Re-engineering to streamline and/or sustain future demands and growth with existing staff and enterprise integration enhancement.

(YR1) - InfoPath Forms - (designing, distributing, and submitting electronic forms) - Near end of life and will soon need to be replaced. Staff will conduct analysis on software replacement. - \$20,000

(YR1) - Upgrade of the District's back-end Intranet structure (SharePoint) - Near end of life for support and will need to be upgraded with new features to include BI (Business Intelligence) plug-in solution (Dashboard Designer). - \$20,000

(YR2) - Enterprise Content Management and Document Management Solution. The District's current content management solution requires adaptation and new features in keeping abreast with current technologies to include content strategies and a standard taxonomy. The current solution also does not integrate well with SharePoint, the District's current Intranet back-end technology solution, and other possible integration solutions. - \$75,000

**COMMENTS:**

In Fiscal Year 2017 staff will evaluate the replacement of an enterprise-wide Content Management solution. Staff is currently in the discovery phase with evaluating several solutions in preparation for next Fiscal Year 2017 project. Staff is also evaluating the existing system (TRIM) with the potential for additional requirements that may be needed. This evaluation should be completed by the end of May 2016.

Project Replacement Cost - \$135,000

**FUND DETAILS:**

FUNDING SOURCE:	Expansion	Betterment	Replacement	New Water Supply	Total
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	FY
TOTAL	2017	2018	2019	2020	2021	2022	Total
	\$35	\$100	\$0	\$0	\$0	\$0	\$135

**CIP Number: P2568**

**PROJECT SCHEDULE:**

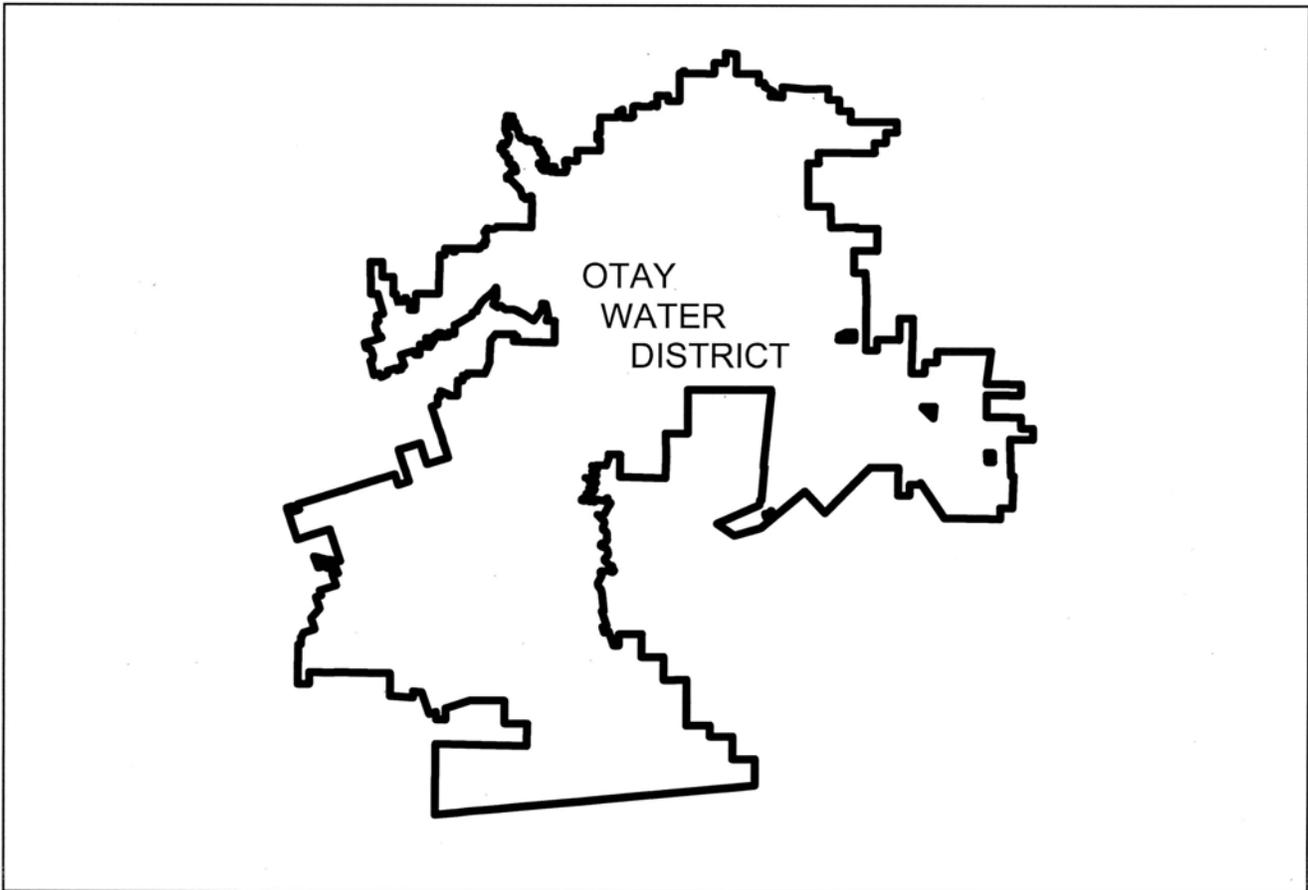
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>			\$0
<b>DESIGN:</b>			\$0
<b>CONSTRUCTION:</b>	7/1/2015	6/30/2017	\$135

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Jolene Fielding

**Date:** 4/20/2016

**OTAY WATER DISTRICT  
CAPITAL IMPROVEMENT PROGRAM**

<b>PROJECT TITLE:</b> Metro Ethernet Implementation/ District Facilities - Pilot	<b>CIP Number:</b> P2569
<b>PROJECT MANAGER:</b> Michael Kerr	<b>DIRECTOR DIVISION:</b> 0
<b>ORIGINAL APPROVED DATE:</b>	<b>I.D. LOCATION:</b> District Wide
<b>RELATED CIP PROJECTS:</b>	<b>PRIORITY:</b> 2
	<b>BUDGET AMOUNT:</b> \$145,000

**DESCRIPTION OF PROJECT:**  
This project involves the implementation of Metro Ethernet to Otay Water District Facilities.

**JUSTIFICATION OF PROJECT:**  
The District currently uses Firetide, Inc., as its wireless technology solution to provide data communication to monitor its supervisory control and data acquisition (SCADA) system. The current environment is supported by a third party vendor, Day Wireless. Currently, the District relies on this technology as its main source of information, however, this solution has been inconsistent for the past 12 to 18 months. Numerous manhours, extensive troubleshooting, and vendor involvement have been the key to maintaining the system with a band-aid approach.  
  
Metro-E technology is cost-effective, consistent, scalable, and also has bandwidth management monitoring, thereby, minimizing staff's efforts in extensive troubleshooting. The design of the Metro-E solution will provide elevated security and offer continuous availability for the District's business continuity efforts. Data will be securely transported within a private network that will be accessible by District staff only. This new wired technology will also minimize manhours necessary to support this solution and give the District added value in reliability and sustainability. Other factors in requesting a change in technology in support of SCADA includes, decreased maintenance costs, Quality of Service (QOS), increased utilization, limitation of vulnerabilities, encryption of sensitive data, and business continuity.

**COMMENTS:**  
IT staff commenced the reengineering/redesigning of the telecommunications architecture for the District's remote facilities from wireless to 'hard-wired' technology in January 2016. The timeline to complete the sites will crossover into 2nd Quarter FY 2017. Additional funds are required for costs that include: outside vendor services for electrical improvements; additional electrical modifications to support new devices at several sites; and additional conduits needed to support existing and new infrastructure.

**FUND DETAILS:**

FUNDING SOURCE:	Expansion	Betterment	Replacement	New Water Supply	Total
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	FY
TOTAL	2017	2018	2019	2020	2021	2022	Total
	\$100	\$45	\$0	\$0	\$0	\$0	\$145

**CIP Number: P2569**

**PROJECT SCHEDULE:**

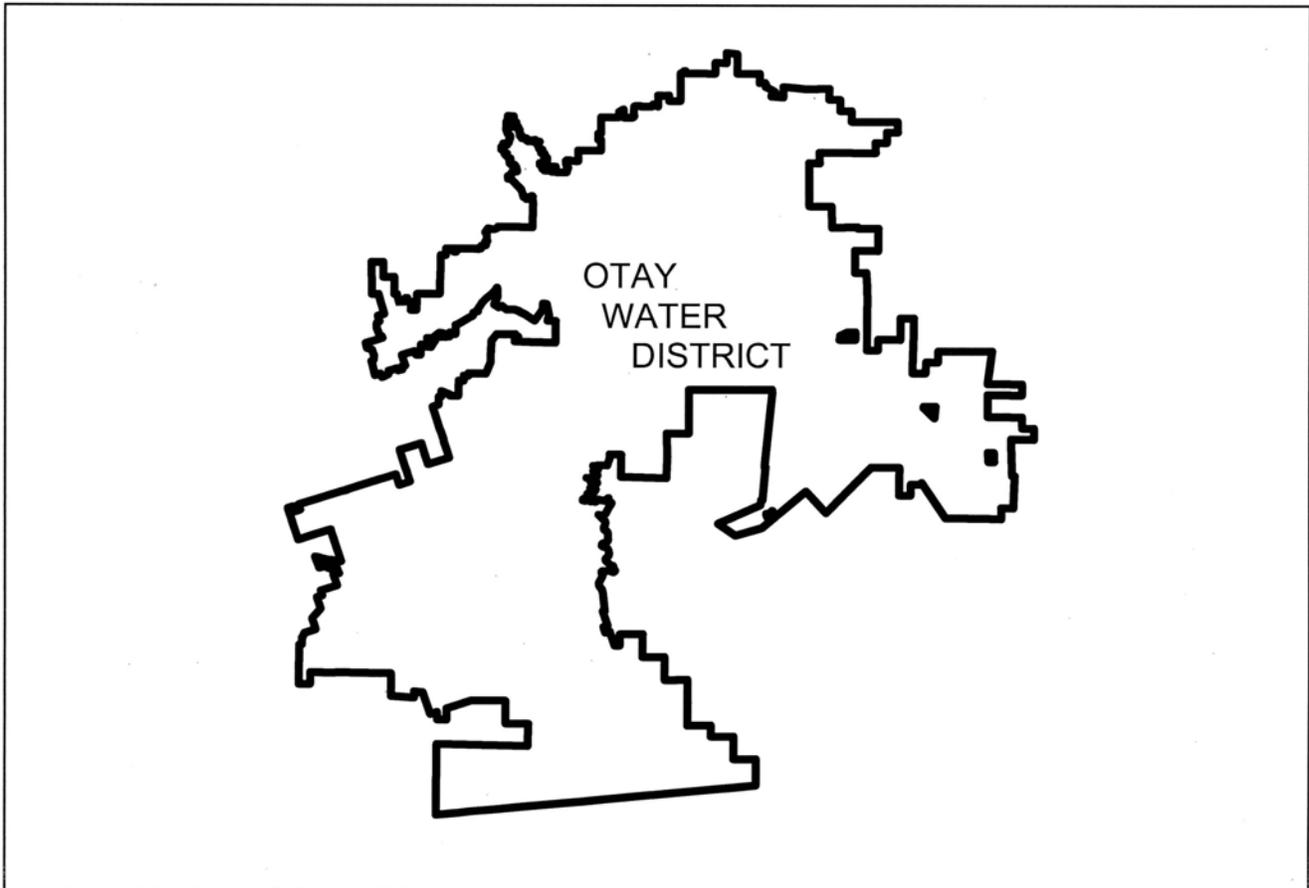
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>	7/1/2015	10/30/2016	\$0
<b>DESIGN:</b>			\$0
<b>CONSTRUCTION:</b>	7/1/2015	10/30/2016	\$145

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Jolene Fielding

**Date:** 5/10/2016

**OTAY WATER DISTRICT  
CAPITAL IMPROVEMENT PROGRAM**

<b>PROJECT TITLE:</b> SCADA Equipment & Infrastructure Enhancement	<b>CIP Number:</b> P2570
<b>PROJECT MANAGER:</b> Michael Kerr	<b>DIRECTOR DIVISION:</b> 0
<b>ORIGINAL APPROVED DATE:</b> 7/1/2017	<b>I.D. LOCATION:</b> District Wide
<b>RELATED CIP PROJECTS:</b>	<b>PRIORITY:</b> 2
	<b>BUDGET AMOUNT:</b> \$300,000

**DESCRIPTION OF PROJECT:**  
This project is for the replacement and enhancement of the SCADA equipment & infrastructure.

**JUSTIFICATION OF PROJECT:**  
SCADA equipment and infrastructure requires replacement and enhancement to effectively manage the District's operational facilities.

**COMMENTS:**

**FUND DETAILS:**

FUNDING SOURCE:	Expansion	Betterment	Replacement	New Water Supply	Total
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	FY
TOTAL	2017	2018	2019	2020	2021	2022	Total
	\$0	\$100	\$100	\$0	\$0	\$0	\$300

**CIP Number: P2570**

**PROJECT SCHEDULE:**

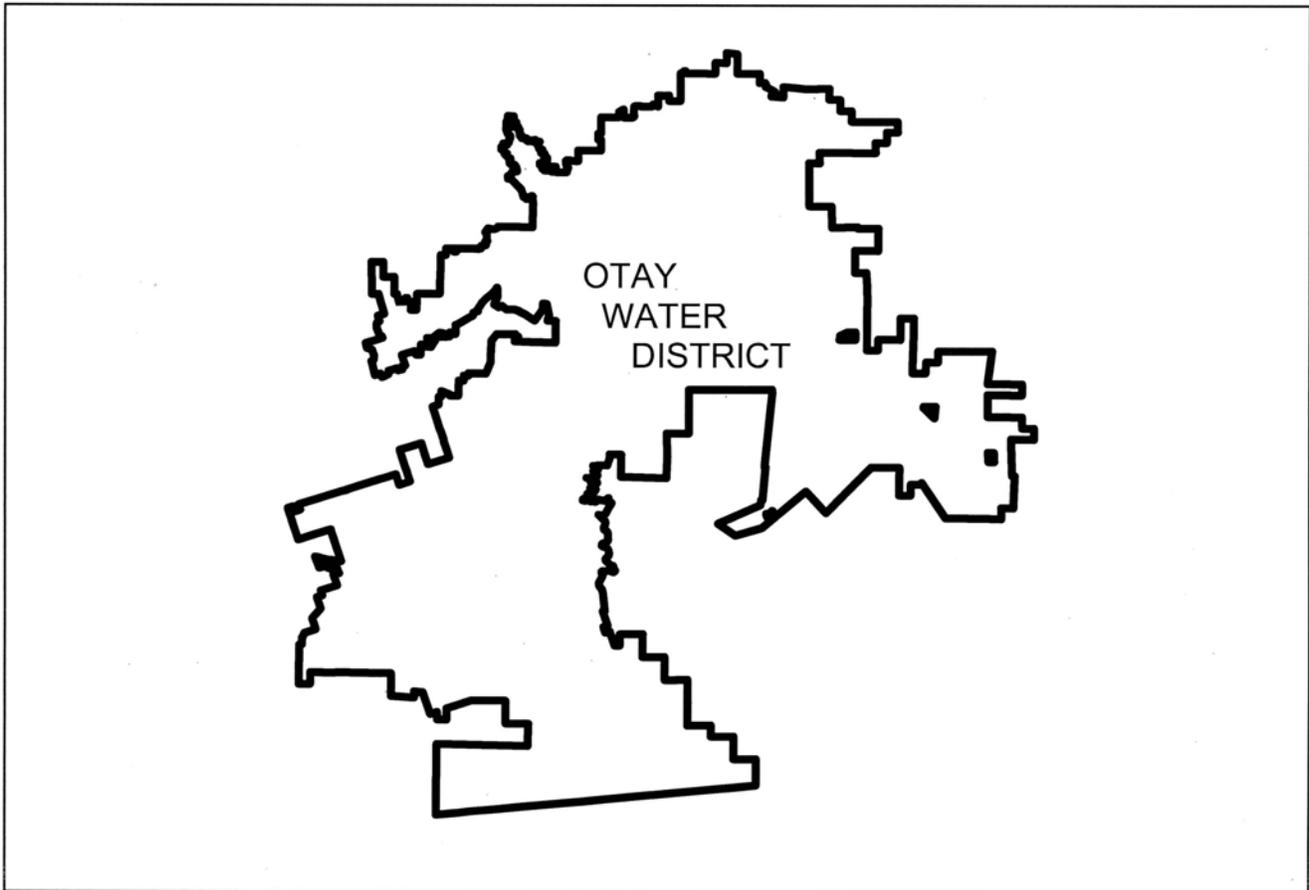
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>			\$0
<b>DESIGN:</b>			\$0
<b>CONSTRUCTION:</b>	7/1/2016	6/30/2019	\$300

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Jolene Fielding

**Date:** 4/19/2016

**OTAY WATER DISTRICT  
CAPITAL IMPROVEMENT PROGRAM**

<b>PROJECT TITLE:</b> Datacenter Network Enhancement & Replacement of Infrastructure Componets	<b>CIP Number:</b> P2571
<b>PROJECT MANAGER:</b> Michael Kerr	<b>DIRECTOR DIVISION:</b> 0
<b>ORIGINAL APPROVED DATE:</b> 7/7/2018	<b>I.D. LOCATION:</b> District Wide
<b>RELATED CIP PROJECTS:</b>	<b>PRIORITY:</b> 2
	<b>BUDGET AMOUNT:</b> \$200,000

**DESCRIPTION OF PROJECT:**  
This project is for the replacement and enhancement of the infrastructure components for the Data Center Network.

**JUSTIFICATION OF PROJECT:**  
Data Center Network infrastructure is reaching the end of its service life. This project plans for enhancement and replacement.

**COMMENTS:**

**FUND DETAILS:**

FUNDING SOURCE:	Expansion	Betterment	Replacement	New Water Supply	Total
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	FY
TOTAL	2017	2018	2019	2020	2021	2022	Total
	\$0	\$0	\$100	\$100	\$0	\$0	\$200

**CIP Number: P2571**

**PROJECT SCHEDULE:**

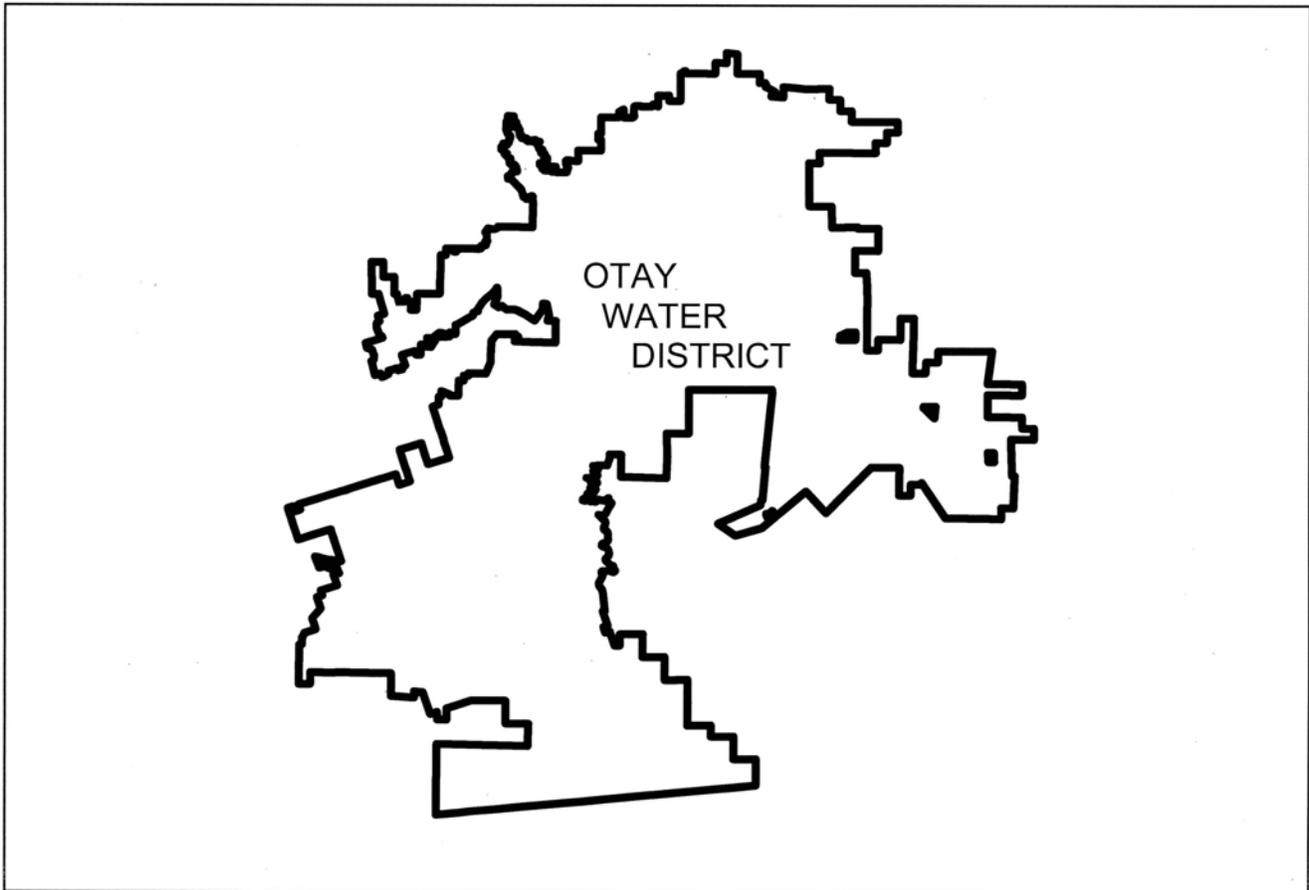
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>			\$0
<b>DESIGN:</b>			\$0
<b>CONSTRUCTION:</b>	7/1/2018	6/30/2020	\$200

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Jolene Fielding

**Date:** 5/16/2016

**OTAY WATER DISTRICT  
CAPITAL IMPROVEMENT PROGRAM**

<b>PROJECT TITLE:</b> Enterprise Resource Planning (ERP) Replacement	<b>CIP Number:</b> P2572
<b>PROJECT MANAGER:</b> Michael Kerr	<b>DIRECTOR DIVISION:</b> 0
<b>ORIGINAL APPROVED DATE:</b> 7/1/2020	<b>I.D. LOCATION:</b> District Wide
<b>RELATED CIP PROJECTS:</b>	<b>PRIORITY:</b> 3
	<b>BUDGET AMOUNT:</b> \$500,000

**DESCRIPTION OF PROJECT:**  
This project is for the replacement of the Enterprise Resource Planning system.

**JUSTIFICATION OF PROJECT:**  
Based on preliminary road maps from the current vendor, staff anticipates that the current ERP system, Eden, will become inflexible and constricted with new systems on the horizon. Staff is presently identifying key core business processes in achieving improvements in productivity and quality. Staff also anticipates that the outcome of the workshops will recognize that Eden will lack the necessary functionality, business agility, flexibility, and technology necessary for the District's overall growth.

**COMMENTS:**  
Staff will start the discovery process in FY 2020 to identify possible alternatives for a new system. Given the history of the current solution, Eden, staff anticipates that FY 2021 will be appropriate for a replacement. In FY 2021, the District will have been utilizing Eden Financials for over 15 years. In the interim, staff will conduct research based on the District's current technology infrastructure for best fit for conversion of historical data, proper workflow and security, and templates for utility billing and invoicing.

**FUND DETAILS:**

FUNDING SOURCE:	Expansion	Betterment	Replacement	New Water Supply	Total
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	FY
TOTAL	2017	2018	2019	2020	2021	2022	Total
	\$0	\$0	\$0	\$0	\$250	\$250	\$500

CIP Number: P2572

**PROJECT SCHEDULE:**

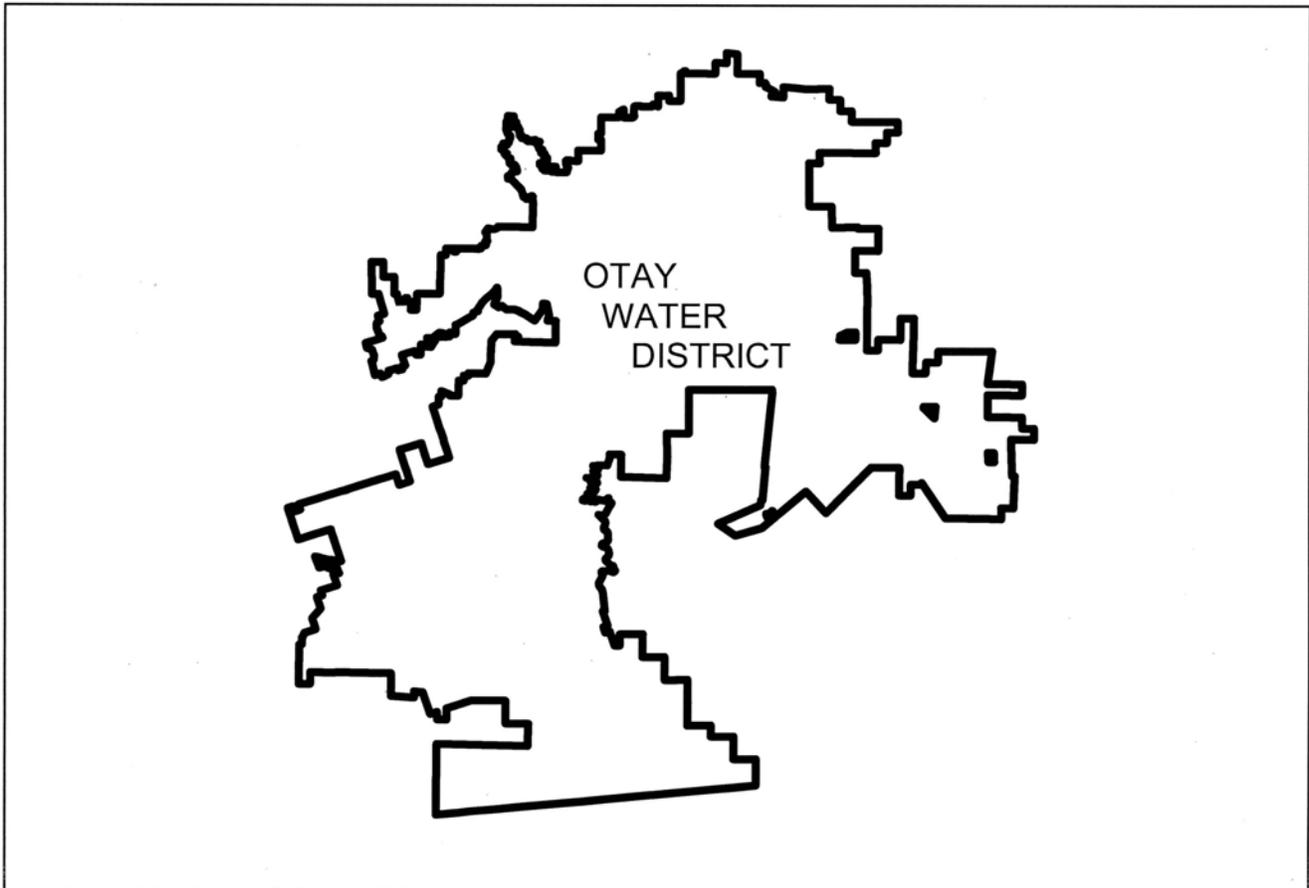
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:			\$0
DESIGN:			\$0
CONSTRUCTION:	7/1/2020	6/30/2022	\$500

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Steve Beppler

**Date:** 4/21/2016

<b>PROJECT TITLE:</b> Res - 657-1 and 657-2 Reservoir Demolitions		<b>CIP Number:</b> P2584					
<b>PROJECT MANAGER:</b> Jeff Marchioro		<b>DIRECTOR DIVISION:</b> 3					
<b>ORIGINAL APPROVED DATE:</b>		<b>I.D. LOCATION:</b>					
<b>RELATED CIP PROJECTS:</b>		<b>PRIORITY:</b> 2					
		<b>BUDGET AMOUNT:</b> \$720,000					
<b>DESCRIPTION OF PROJECT:</b>							
This project is to incorporate the existing 657 Pressure Zone into the 640 Pressure Zone, abandon and demolish the two (2) 657 Reservoirs, and modify associated 657 Zone Pressure Reducing Stations.							
<b>JUSTIFICATION OF PROJECT:</b>							
Eliminating the existing 657 Pressure Zone will simplify operations, reduce operating cost, and improve reliability.							
<b>COMMENTS:</b>							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
Replacement	0 %	0 %	100 %	0 %	100 %		
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$0	\$0	\$0	\$70	\$650	\$720

CIP Number: P2584

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2020	12/31/2020	\$35
DESIGN:	1/1/2021	6/30/2021	\$35
CONSTRUCTION:	7/1/2021	6/30/2022	\$650

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 303



Submitted By: Jolene Fielding

Date: 4/19/2016

<b>PROJECT TITLE:</b> RecPL - 24-Inch, 860 Zone, Alta Road - Alta Gate/Airway		<b>CIP Number:</b> R2077	
		<b>DIRECTOR DIVISION:</b>	2
<b>PROJECT MANAGER:</b>	Stephen Beppler	<b>I.D. LOCATION:</b>	22
<b>ORIGINAL APPROVED DATE:</b>	5/23/2006	<b>PRIORITY:</b>	4
<b>RELATED CIP PROJECTS:</b>	R2048, R2058, R2087	<b>BUDGET AMOUNT:</b>	\$4,500,000

**DESCRIPTION OF PROJECT:**

This project is for construction of approximately 9,300 feet of 24-inch pipeline within the 860 Pressure Zone in Alta Road from the Alta Gate location to Airway Road. Portions of this project are being built by developers through reimbursement agreements. The balance of this project will be constructed as part of the Otay Mesa recycled water system.

**JUSTIFICATION OF PROJECT:**

This project will provide transmission capacity for development of Otay Mesa and link the planned 860-1 Reservoir with the recycled water transmission system in Otay Mesa. Funding opportunity is the United States Bureau of Reclamation Water Reclamation and Reuse Program, Title XVI of P.L. 102-575.

**COMMENTS:**

Temporary moratorium enacted for Otay Mesa recycled water in July 2014 will be revisited in near future. In the meanwhile, putting a hold on all recycled water projects in Otay Mesa.

<b>FUND DETAILS:</b>					
FUNDING SOURCE:	Expansion	Betterment	Replacement	New Water Supply	Total
Expansion	100 %	0 %	0 %	0 %	100 %
<b>TOTAL:</b>	100 %	0 %	0 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	FY
TOTAL	2017	2018	2019	2020	2021	2022	Total
	\$2,812	\$20	\$0	\$0	\$0	\$0	\$2,852

CIP Number: R2077

**PROJECT SCHEDULE:**

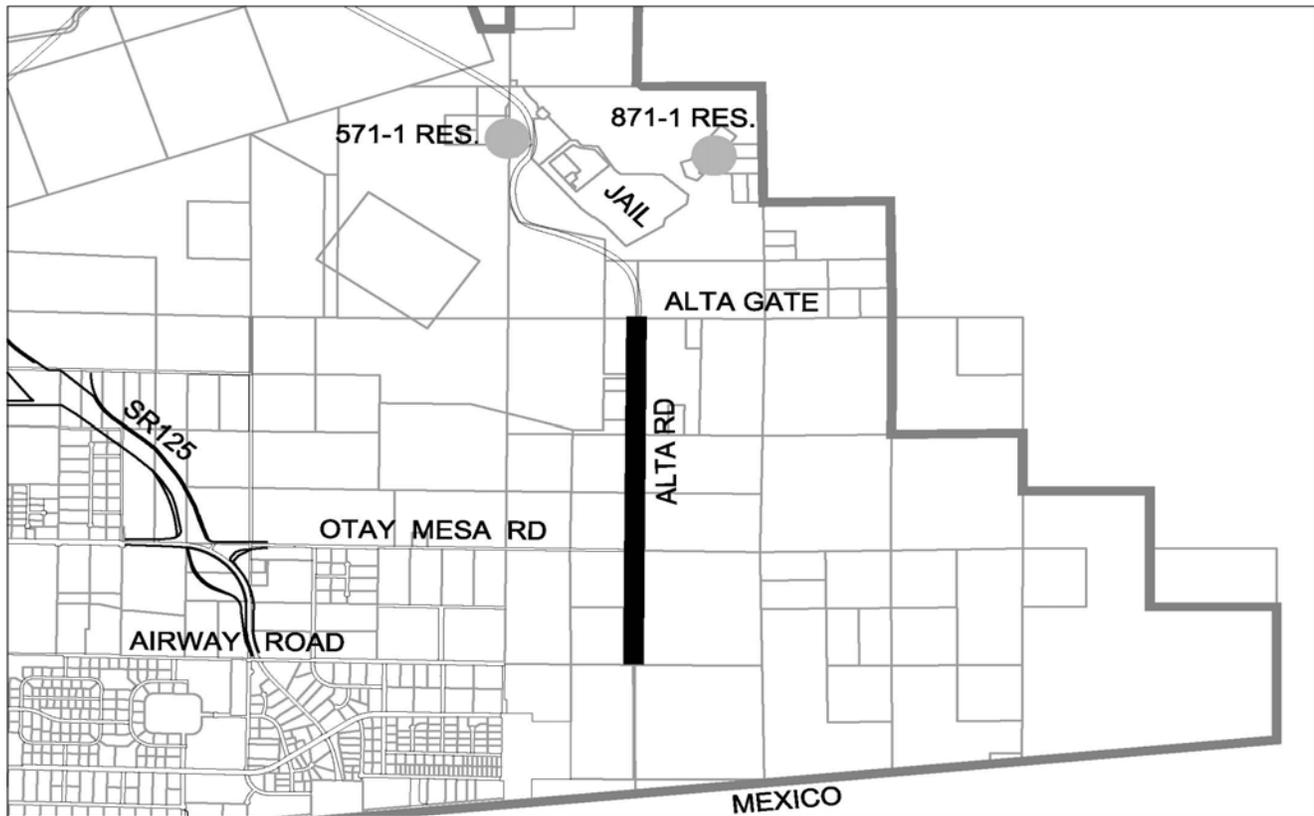
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2001	12/1/2009	\$164
DESIGN:	1/1/2010	6/30/2019	\$451
CONSTRUCTION:	7/1/2019	12/31/2024	\$3,885

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 39**



**Submitted By:** Jolene Fielding

**Date:** 5/16/2016

**PROJECT TITLE:** RecPL - 6-Inch, 450 Zone, Otay Valley Road - Otay Valley/Entertainment

**CIP Number:** R2079

**PROJECT MANAGER:** Stephen Beppler

**DIRECTOR DIVISION:** 1

**ORIGINAL APPROVED DATE:**

**I.D. LOCATION:**

**RELATED CIP PROJECTS:** R2028

**PRIORITY:** 2

**BUDGET AMOUNT:** \$150,000

**DESCRIPTION OF PROJECT:**

This project is to construct the pipeline across the river and the pressure reducing station to reduce the pressure from the 680 Pressure Zone to a new 450 Pressure Zone to serve the amphitheater and water park.

**JUSTIFICATION OF PROJECT:**

The City is replacing the Heritage Road Bridge south of Main Street. Village 3 will construct recycled water to the intersection of Heritage Road and Main Street.

**COMMENTS:**

The pipeline is estimated to cost \$450K and a pressure reducing station \$200K. Current CIP does not reflect this work; will be updated upon acceptance of new Master Plan.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Expansion	100 %	0 %	0 %	0 %	100 %
<b>TOTAL:</b>	100 %	0 %	0 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$10	\$10	\$10	\$110	\$0	\$150

CIP Number: R2079

**PROJECT SCHEDULE:**

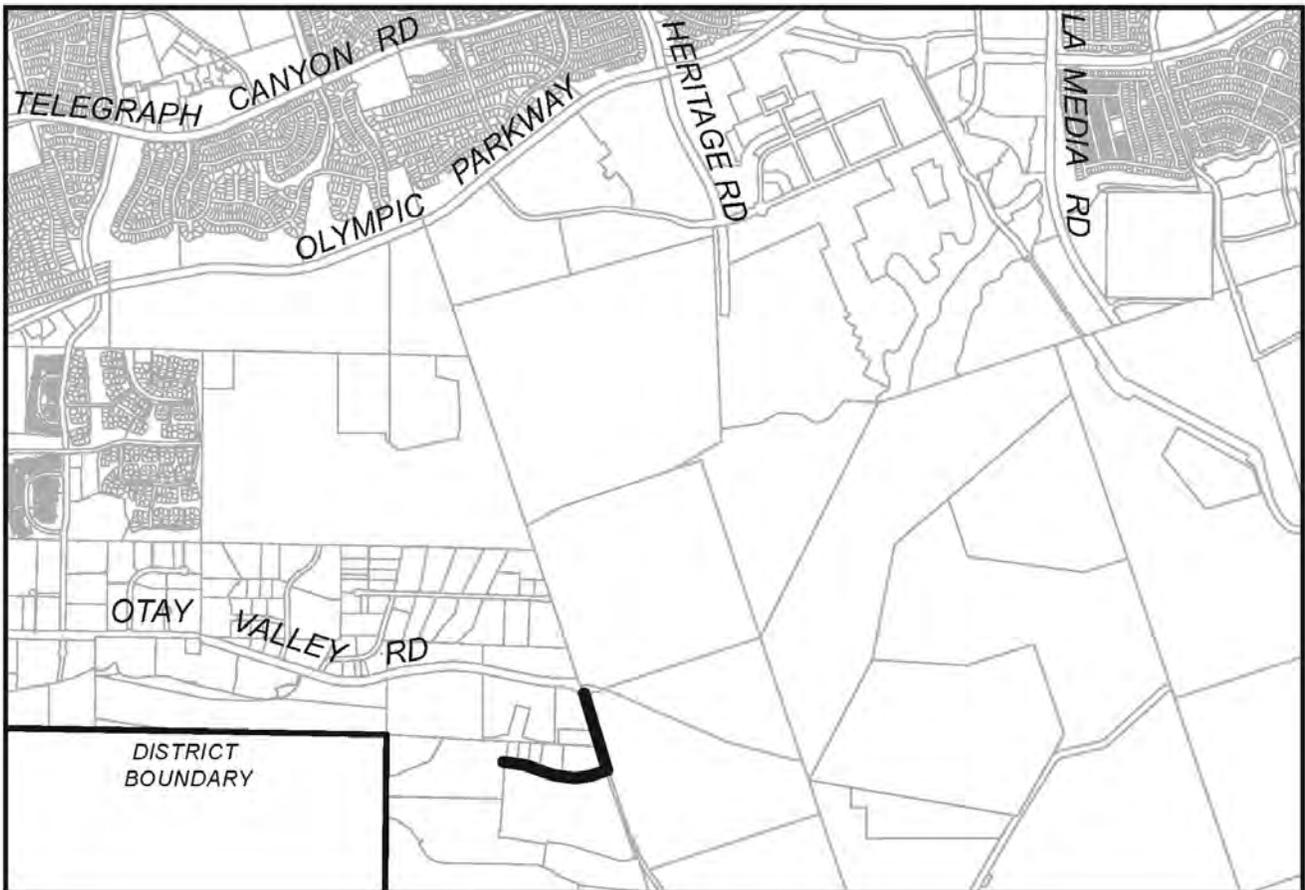
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2016	6/30/2017	\$10
DESIGN:	7/1/2017	12/31/2018	\$20
CONSTRUCTION:	1/1/2019	6/30/2021	\$120

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 51**



**Submitted By:** Bob Kennedy

**Date:** 5/19/2016

<b>PROJECT TITLE:</b> Sweetwater River Wooden Trestle Improvement for the Recycled Water Forcemain	<b>CIP Number:</b> R2109
<b>PROJECT MANAGER:</b> Stephen Beppler	<b>DIRECTOR DIVISION:</b> 3
<b>ORIGINAL APPROVED DATE:</b> 5/14/2014	<b>I.D. LOCATION:</b> 22/27
<b>RELATED CIP PROJECTS:</b>	<b>PRIORITY:</b> 1
	<b>BUDGET AMOUNT:</b> \$375,000

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**DESCRIPTION OF PROJECT:**

This project is for the modification of the wooden trestle to reduce the potential damage of a wildfire event to the structure.

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**JUSTIFICATION OF PROJECT:**

The existing wooden trestle over the Sweetwater River supports a 14-inch steel force main for recycled water. The 200 foot long wooden trestle was built in 1980 and a recent assessment has recommended a brush management plan be prepared to extend into the adjacent San Diego National Wildlife Refuge. The report also recommends the installation of a heat shield, installation of a fire suppression system, or modification of the existing structure to reduce the threat of wildfire to the structure.

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**COMMENTS:**

Fire protective measures installed in FY 2016. Warranty work in FY 2017. Project can be closed out at end of FY 2017. Project budget reduced to \$360K from \$600K to reflect the remaining work to be completed.

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**FUND DETAILS:**

FUNDING SOURCE:	Expansion	Betterment	Replacement	New Water Supply	Total
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

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**EXPENDITURE SCHEDULE (X \$1,000):**

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	FY
TOTAL	2017	2018	2019	2020	2021	2022	Total
	\$360	\$10	\$5	\$0	\$0	\$0	\$375

CIP Number: R2109

**PROJECT SCHEDULE:**

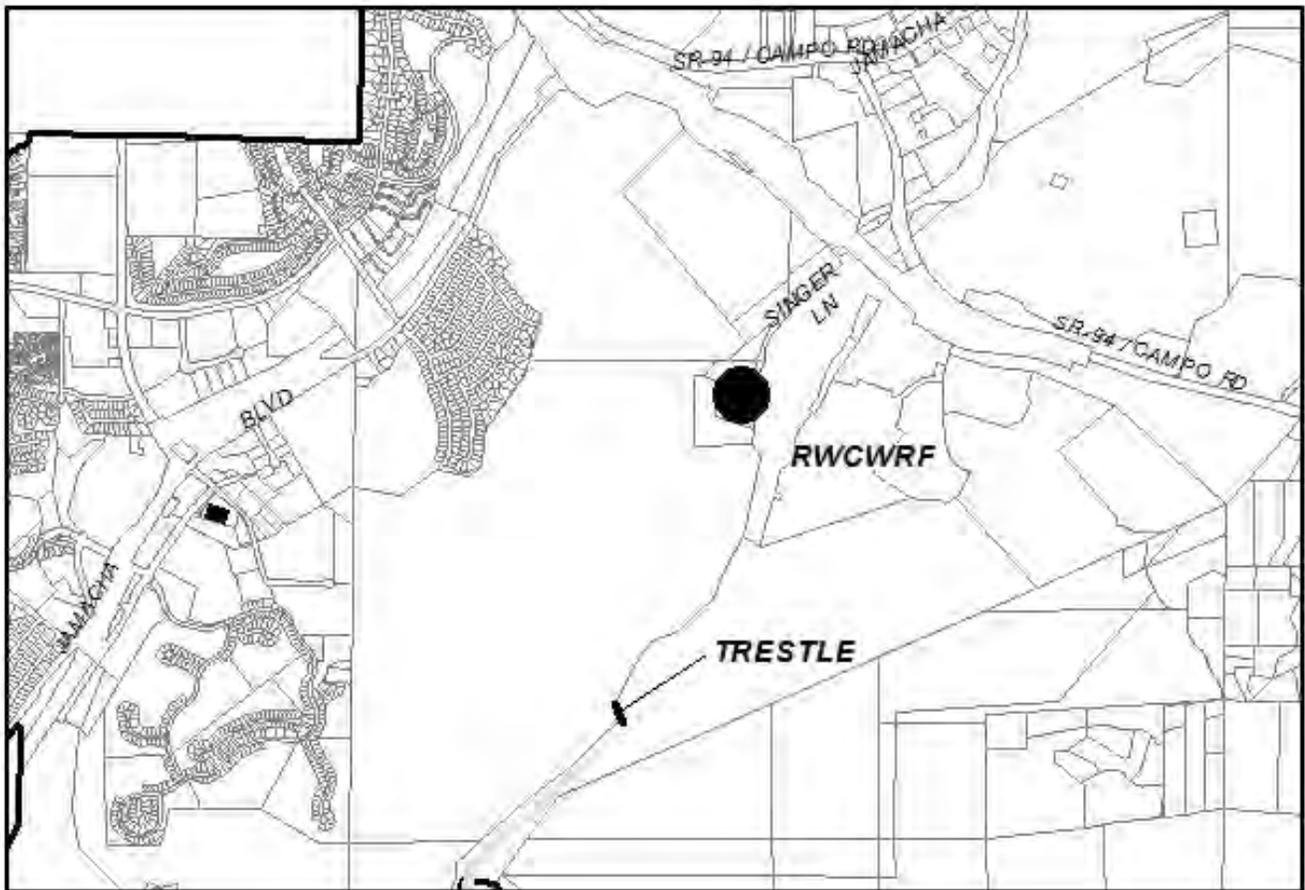
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	6/30/2014	12/31/2014	\$45
DESIGN:	1/1/2015	8/31/2015	\$100
CONSTRUCTION:	9/1/2015	6/30/2018	\$230

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 319**



**Submitted By:** Steve Beppler

**Date:** 4/21/2016

<b>PROJECT TITLE:</b> RecPS - 944-1 Optimization and Pressure Zone Modifications		<b>CIP Number:</b> R2110	
		<b>DIRECTOR DIVISION:</b>	1
<b>PROJECT MANAGER:</b>	Jeff Marchioro	<b>I.D. LOCATION:</b>	22
<b>ORIGINAL APPROVED DATE:</b>		<b>PRIORITY:</b>	1
<b>RELATED CIP PROJECTS:</b>	R2091	<b>BUDGET AMOUNT:</b>	\$200,000

**DESCRIPTION OF PROJECT:**

This project is to improve the control strategy to increase pumping capacity and streamline operation of the pump station. As a result of this effort, replacement of 5 service saddles on Clubhouse Drive will need to be replaced with higher pressure class saddles. Add sump pump to an existing pressure reducing station vault located east of the intersection of Otay Lakes Road and Hunte Parkway.

**JUSTIFICATION OF PROJECT:**

Revising the control strategy will increase pumping capacity and improve the District's ability to operate the pump station during off-peak hours when electricity rates are low. Retrofitting the PRS vault with a sump pump will prolong the life expectancy of existing pressure reducing station components.

**COMMENTS:**

<b>FUND DETAILS:</b>					
FUNDING SOURCE:	Expansion	Betterment	Replacement	New Water Supply	Total
Betterment ID 22	0 %	100 %	0 %	0 %	100 %
<b>TOTAL:</b>	0 %	100 %	0 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	FY
TOTAL	2017	2018	2019	2020	2021	2022	Total
	\$128	\$5	\$67	\$0	\$0	\$0	\$200

CIP Number: R2110

**PROJECT SCHEDULE:**

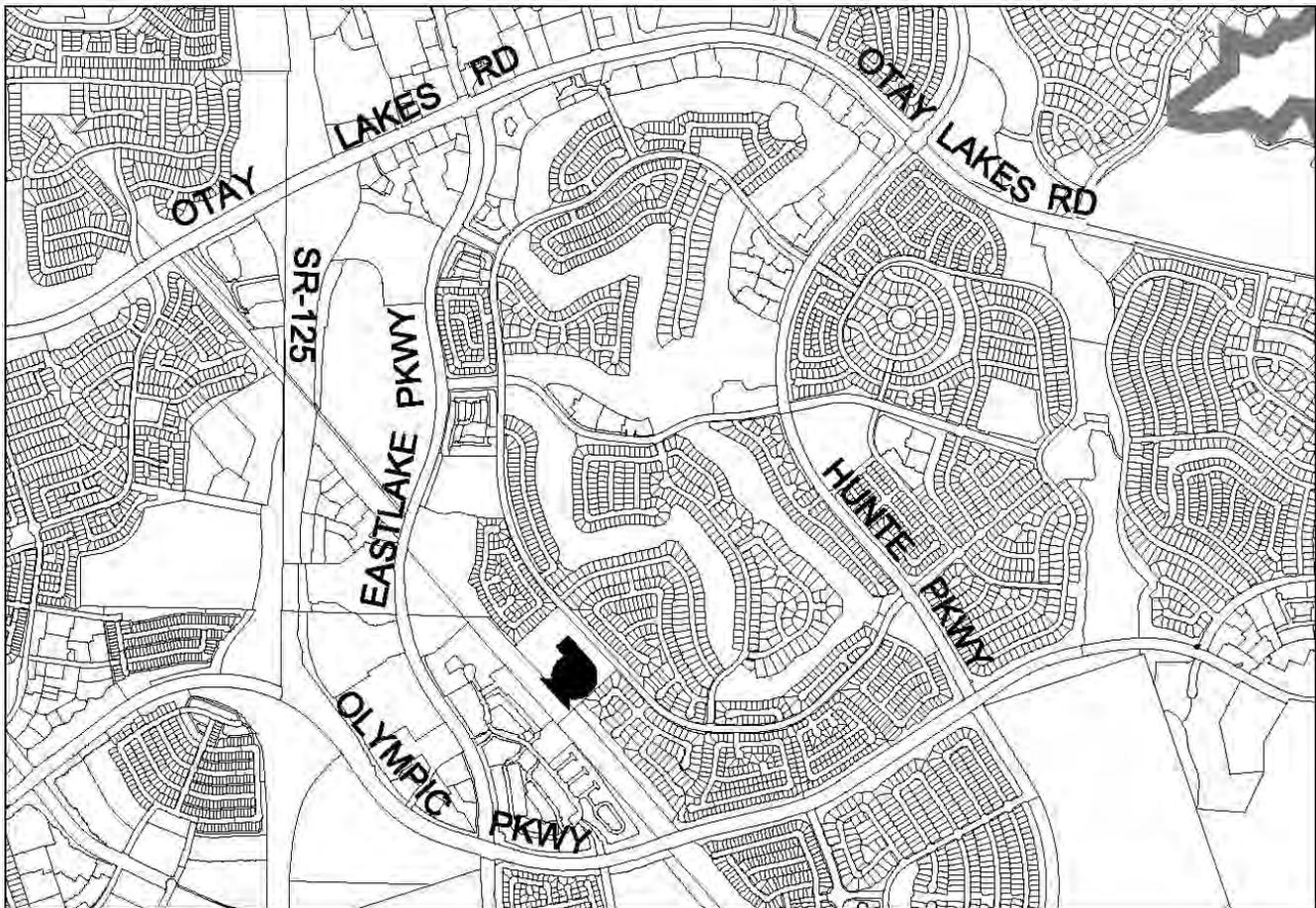
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2013	10/1/2013	\$60
DESIGN:	10/1/2013	9/30/2015	\$25
CONSTRUCTION:	9/30/2015	6/30/2018	\$115

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 115**



**Submitted By:** OTAY\Jeff.Marchioro

**Date:** 4/15/2016

**PROJECT TITLE:** RecPL - 14-Inch, 927 Zone, Force Main Improvements

**CIP Number:** R2116

**DIRECTOR DIVISION:** 3

**PROJECT MANAGER:** Jeff Marchioro

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 1

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$2,500,000

**DESCRIPTION OF PROJECT:**

This project is for the repair of the existing 16,000 L.F. 14-Inch force main, built in 1978, and the replacement of fifteen (15) blow-offs.

**JUSTIFICATION OF PROJECT:**

Active leaks and significant localized corrosion have been spot repaired. Additional spot repairs and replacement of the existing blow-offs are needed to extend the remaining useful life of the facility.

**COMMENTS:**

Overall budget increased for future spot repairs to be identified/quantified November 2016.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Betterment ID 22	0 %	100 %	0 %	0 %	100 %
<b>TOTAL:</b>	0 %	100 %	0 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$590	\$1,000	\$900	\$10	\$0	\$0	\$2,500

CIP Number: R2116

**PROJECT SCHEDULE:**

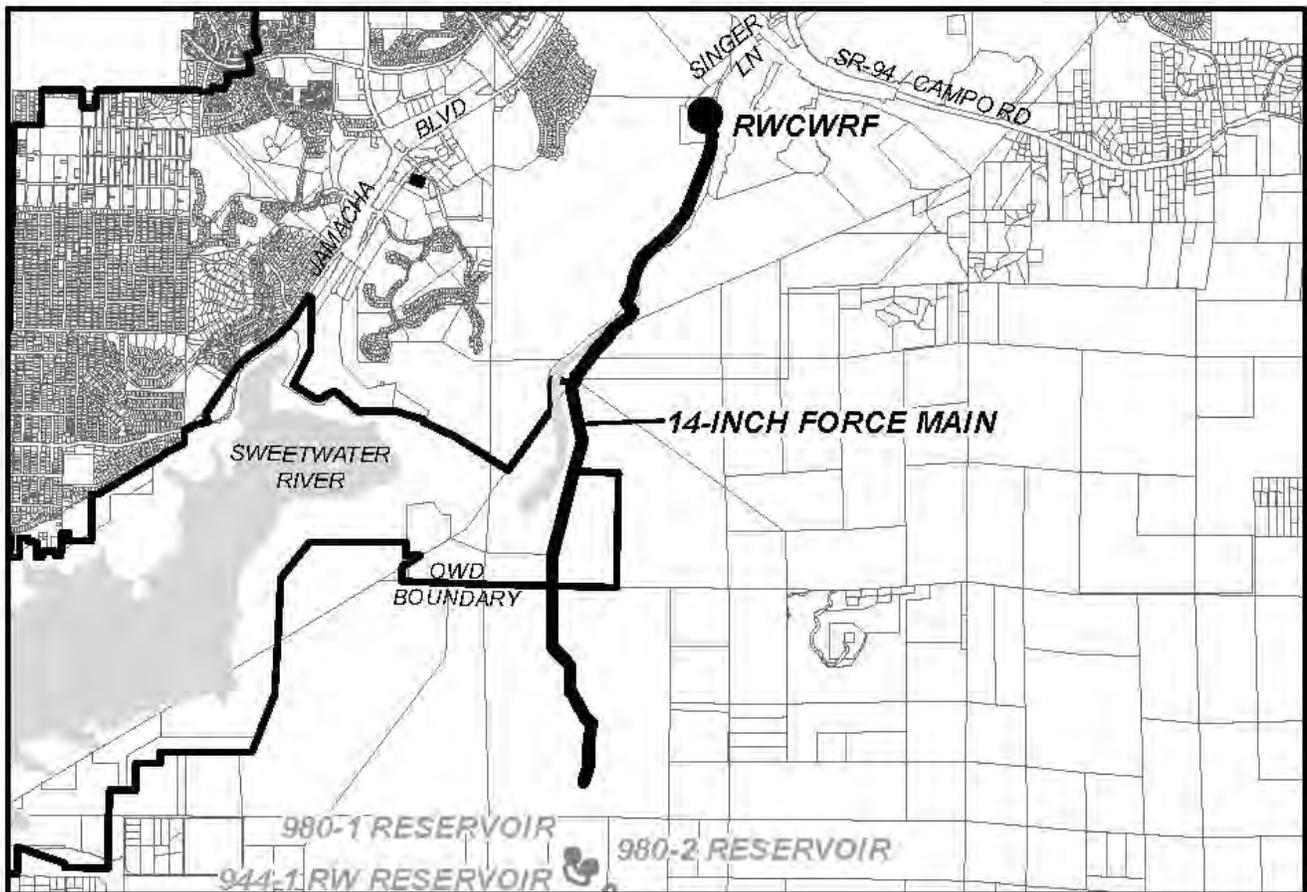
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2014	3/31/2017	\$500
DESIGN:	1/1/2015	6/30/2017	\$200
CONSTRUCTION:	1/1/2015	6/30/2019	\$1,800

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:** 186, 200, 304, 318,



**Submitted By:** OTAY\Jeff.Marchioro

**Date:** 4/21/2016

<b>PROJECT TITLE:</b> RWCWRF Disinfection System Improvements		<b>CIP Number:</b> R2117					
<b>PROJECT MANAGER:</b> Stephen Beppler		<b>DIRECTOR DIVISION:</b> 3		<b>I.D. LOCATION:</b> 22		<b>PRIORITY:</b> 2	
<b>ORIGINAL APPROVED DATE:</b>		<b>BUDGET AMOUNT:</b> \$2,500,000					
<b>DESCRIPTION OF PROJECT:</b>							
<p>The Ralph W. Chapman Water Recycling Facility (RWCWRF) does not have adequate chlorine contact basin volume to meet the San Diego Regional Water Quality Control Board (RWQCB) requirement for chlorine contact time (CT) for the recycled water produced from this facility, so it subsequently needs to use the 14-inch effluent force main to obtain the required CT. It is believed that the high chlorine dosage needed with this arrangement is adversely impacting the force main, its appurtenances, and the reservoir liners. If CT can be met within the plant, the chlorine residual leaving the plant can be lowered substantially. Alternatives being evaluated include additional contact basin volume, changing to ultraviolet (UV) disinfection, and other options.</p>							
<b>JUSTIFICATION OF PROJECT:</b>							
<p>The District currently uses the existing 14-Inch cement mortar lining (CML) force main to meet the required chlorine contact time resulting in a higher corrosion rate for facilities on this pipeline. Increasing the size of the chlorine contact basin or switching to another disinfection method at the RWCWRF will extend the useful life of the force main and reservoir liners.</p>							
<b>COMMENTS:</b>							
<p>Improvement options include changing to UV disinfection in addition to increasing contact time at the plant. Preliminary assessments indicate staying with chlorine gas disinfection is the most cost effective alternative. Prior to starting design of an expanded contact tank, the results of the force main assessment will be determined to understand the impacts of the chlorine gas on it.</p>							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
Betterment ID 22	0 %	100 %	0 %	0 %	100 %		
<b>TOTAL:</b>	0 %	100 %	0 %	0 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$110	\$10	\$50	\$50	\$150	\$1,000	\$150
							\$1,520

CIP Number: R2117

**PROJECT SCHEDULE:**

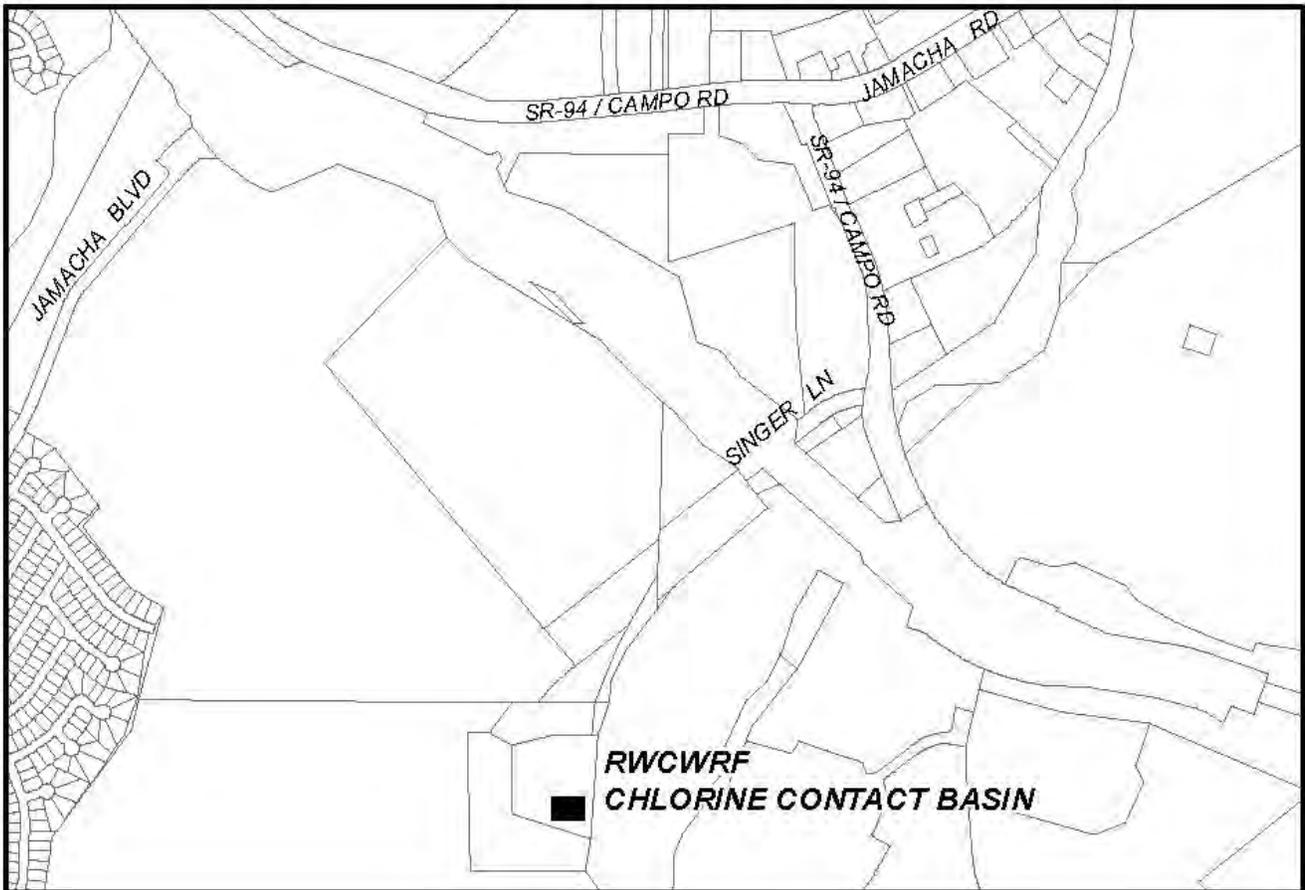
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2015	12/31/2015	\$100
DESIGN:	1/1/2016	3/31/2020	\$250
CONSTRUCTION:	4/1/2020	12/31/2023	\$2,150

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 319**



**Submitted By:** Jolene Fielding

**Date:** 5/16/2016

**PROJECT TITLE:** Steele Canyon Sewer PS Large Solids Handling Improvements **CIP Number: R2118**

**DIRECTOR DIVISION:** 3

**PROJECT MANAGER:** Stephen Beppler

**I.D. LOCATION:** 18

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 1

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$75,000

**DESCRIPTION OF PROJECT:**

This project is for installation of measures in the Steele Bridge Sewer Pump Station wet well to protect the sewage pumps from assorted debris. The existing pumps have been requiring a high frequency of repairs and replacement of parts due to rags, construction materials, and other non-typical wastewater solids entering the pump station. Assessment of installing either a new chopper pump or bar screen to handle these types of materials is needed.

**JUSTIFICATION OF PROJECT:**

The prevention of large debris from reaching the existing pumps will result in reduced maintenance repairs and extend the life of the sewage pumps. Based upon the current frequency and cost of maintenance of the sewage pumps, the proposed improvement should pay for itself within a few years. Improvements may trigger safety upgrades to also be included.

**COMMENTS:**

Planning and design to begin in FY 2016 with construction in FY 2017.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Betterment ID 18	0 %	100 %	0 %	0 %	100 %
<b>TOTAL:</b>	0 %	100 %	0 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$7	\$68	\$0	\$0	\$0	\$0	\$75

CIP Number: R2118

PROJECT SCHEDULE:

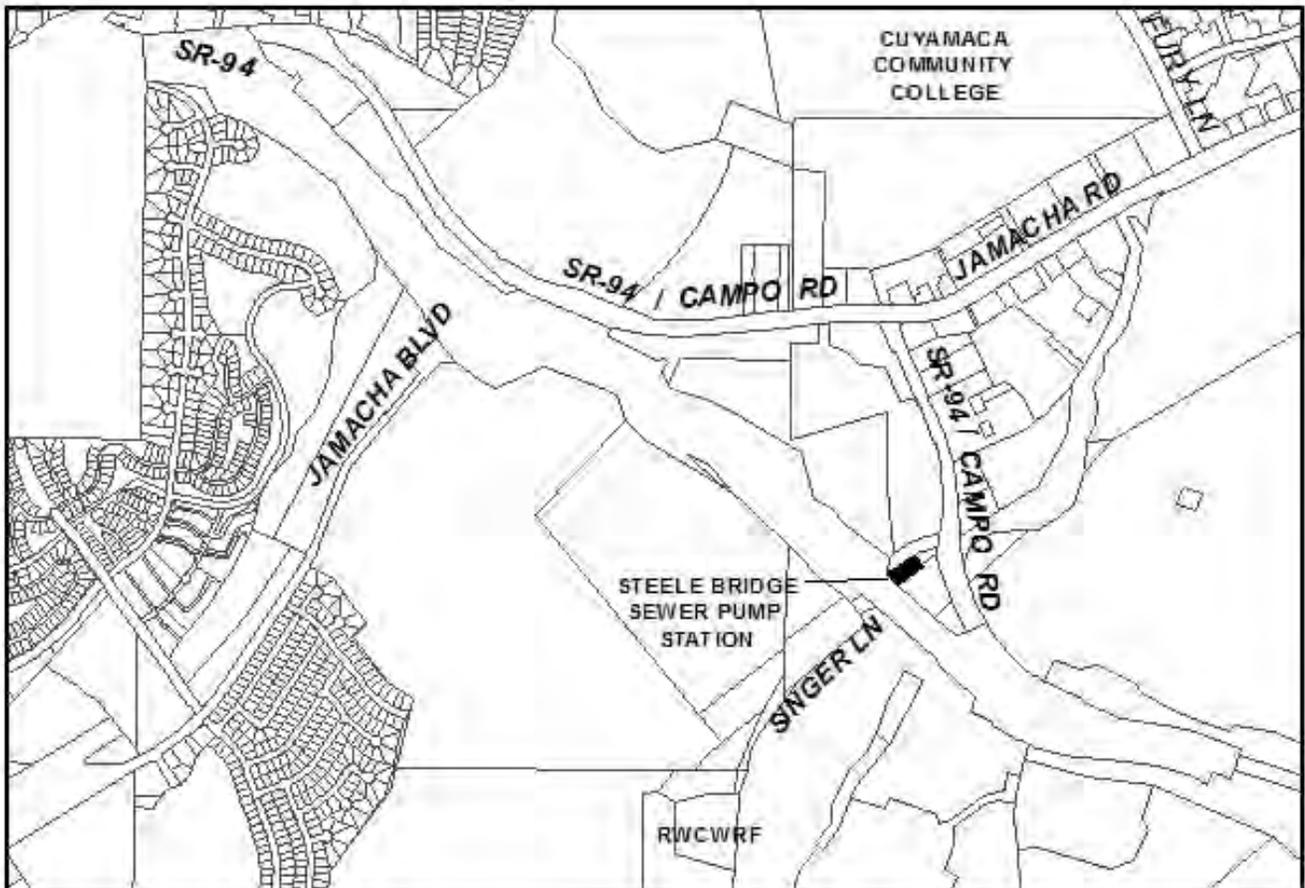
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2015	7/31/2015	\$2
DESIGN:	8/3/2015	9/30/2015	\$18
CONSTRUCTION:	10/1/2015	6/30/2017	\$55

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 331



Submitted By: Bob Kennedy

Date: 8/11/2016

<b>PROJECT TITLE:</b> RWCWRF Automation & Security Upgrades		<b>CIP Number:</b> R2119					
<b>PROJECT MANAGER:</b> Stephen Beppler		<b>DIRECTOR DIVISION:</b> 3		<b>I.D. LOCATION:</b> 22		<b>PRIORITY:</b> 1	
<b>ORIGINAL APPROVED DATE:</b>		<b>BUDGET AMOUNT:</b> \$300,000					
<b>DESCRIPTION OF PROJECT:</b>							
<p>This project will identify and implement automation improvements at the Ralph W. Chapman Water Reclamation Facility (RWCWRF) to decrease operations staffing requirements and enhance the plant security features. Prepare master plan of upgrades required for implementation.</p>							
<b>JUSTIFICATION OF PROJECT:</b>							
<p>To reduce long-term operating costs of the RWCWRF, the District will implement automation to streamline operator labor requirements. In addition to the ability to monitor the treatment processes, the automation will also include security monitoring to ensure the protection of the District facilities as well as ensure that future requirements associated with the on-site storage of chlorine gas are met.</p>							
<b>COMMENTS:</b>							
Budget increased from \$200K to \$300K to reflect preparation of overall Treatment Plant Master Plan under this CIP.							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
Betterment ID 22	0 %	100 %	0 %	0 %	100 %		
<b>TOTAL:</b>	0 %	100 %	0 %	0 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$25	\$95	\$50	\$130	\$0	\$0	\$300

CIP Number: R2119

**PROJECT SCHEDULE:**

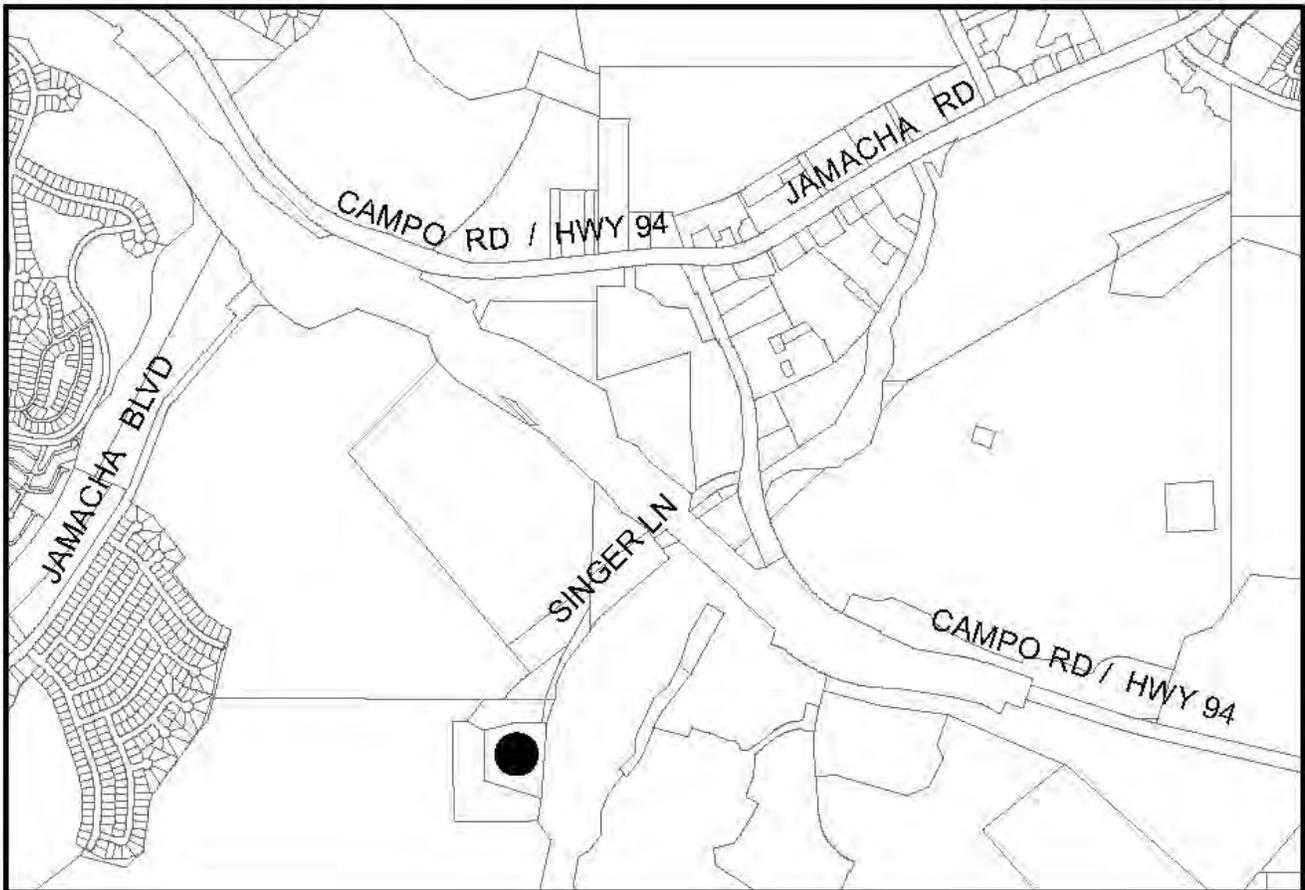
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2015	9/30/2016	\$120
DESIGN:	10/1/2016	6/30/2017	\$50
CONSTRUCTION:	7/1/2017	6/30/2019	\$130

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 319**



**Submitted By:** Jolene Fielding

**Date:** 5/16/2016

<b>PROJECT TITLE:</b> RWCWRF Filtered Water Storage Tank Improvements		<b>CIP Number:</b> R2120					
<b>PROJECT MANAGER:</b> Stephen Beppler		<b>DIRECTOR DIVISION:</b> 3		<b>I.D. LOCATION:</b> 22		<b>PRIORITY:</b> 2	
<b>ORIGINAL APPROVED DATE:</b>		<b>BUDGET AMOUNT:</b> \$500,000					
<b>RELATED CIP PROJECTS:</b> R2096							
<b>DESCRIPTION OF PROJECT:</b>							
<p>This project is to seal and recoat the interior and exterior of steel tank walls and concrete floor. Construct improvements to facilitate operation and maintenance activities and compliance with all applicable codes and OSHA standards. Salvage or replace and improve existing floating cover.</p>							
<b>JUSTIFICATION OF PROJECT:</b>							
<p>HDR Engineering's Inspection and Condition Assessment Report dated May 2015 recommends structural improvements, replacement of interior and exterior coatings, and replacement of the cathodic protection system. The coatings are in relatively poor condition and in need of replacement.</p>							
<b>COMMENTS:</b>							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
Betterment ID 22	0 %	100 %	0 %	0 %	100 %		
<b>TOTAL:</b>	0 %	100 %	0 %	0 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
\$5	\$250	\$245	\$0	\$0	\$0	\$0	\$500

CIP Number: R2120

**PROJECT SCHEDULE:**

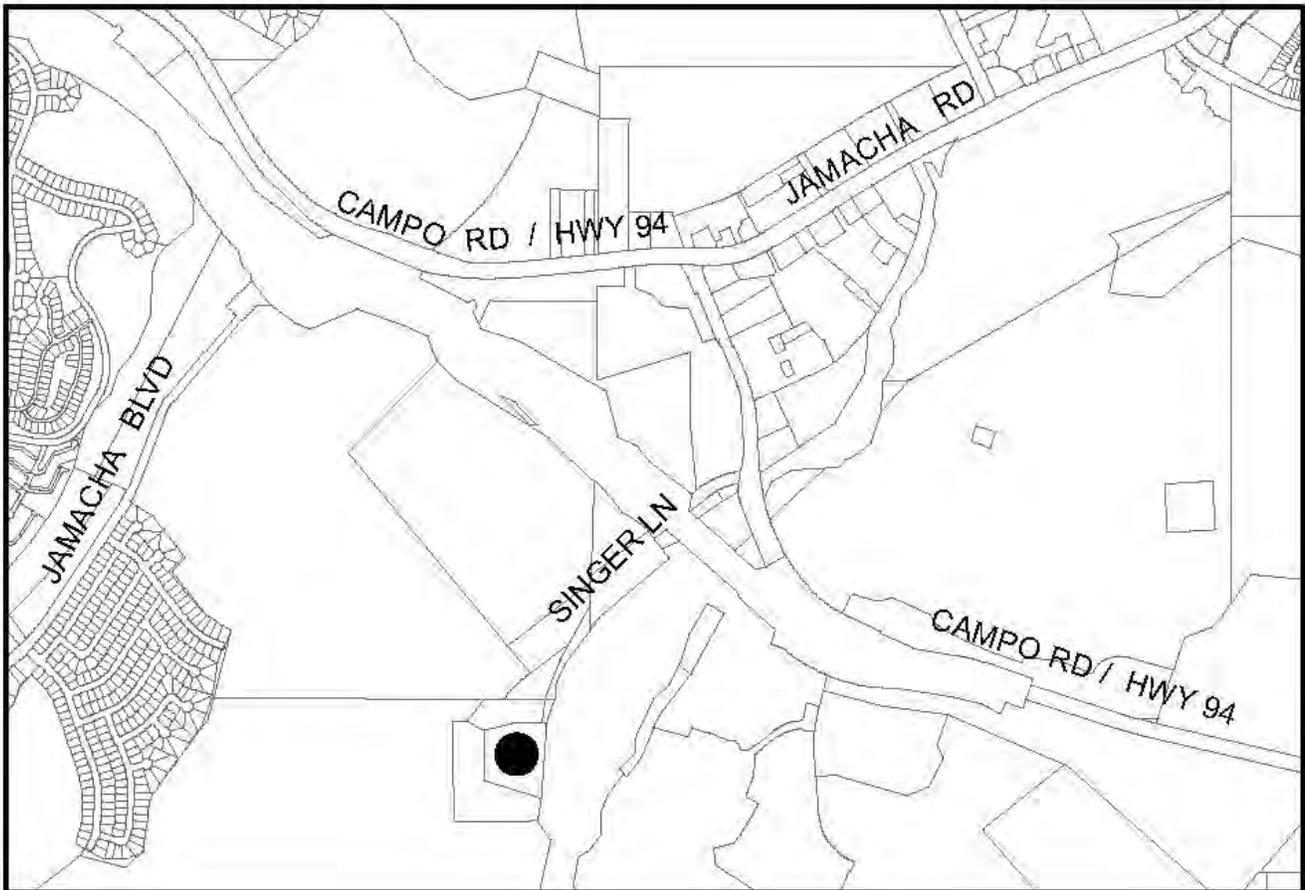
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2015	2/1/2016	\$10
DESIGN:	2/2/2016	1/5/2017	\$40
CONSTRUCTION:	1/8/2017	6/30/2018	\$450

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 319**



**Submitted By:** Steve Beppler

**Date:** 4/21/2016

**PROJECT TITLE:** Emergency Recycled Water Fire Hydrant Installations

**CIP Number:** R2122

**DIRECTOR DIVISION:** 0

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** District Wide

**ORIGINAL APPROVED DATE:** 7/1/2015

**PRIORITY:** 1

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$75,000

**DESCRIPTION OF PROJECT:**

This project will install 2-3 fire hydrants on the recycled water system for emergency fire suppression. The project includes meeting Title 22 requirements, establishing protocol, and site selection.

**JUSTIFICATION OF PROJECT:**

Due to the Governor's mandate to reduce water use, CAL Fire has requested to use recycled water for emergency fire suppression.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Betterment ID 22	0 %	100 %	0 %	0 %	100 %
<b>TOTAL:</b>	0 %	100 %	0 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$60	\$15	\$0	\$0	\$0	\$0	\$75

**CIP Number: R2122**

**PROJECT SCHEDULE:**

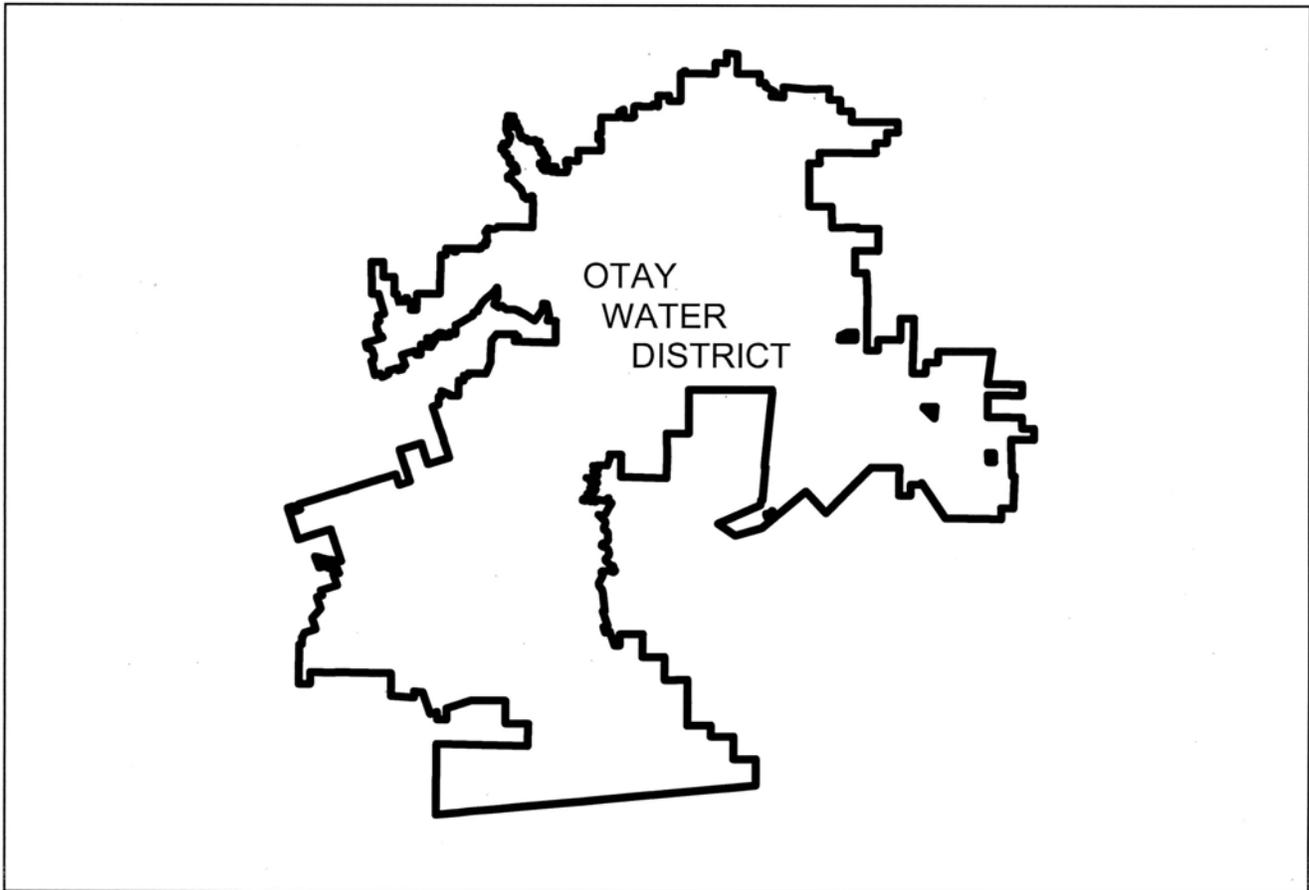
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>	7/1/2015	9/30/2015	\$15
<b>DESIGN:</b>	10/1/2015	3/31/2016	\$15
<b>CONSTRUCTION:</b>	4/1/2016	6/30/2017	\$45

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Steve Beppler

**Date:** 4/21/2016

**PROJECT TITLE:** Repurpose Otay Mesa Recycled Water Lines

**CIP Number:** R2123

**DIRECTOR DIVISION:** 2

**PROJECT MANAGER:** Stephen Beppler

**I.D. LOCATION:**

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$350,000

**DESCRIPTION OF PROJECT:**

This project will access the alternative use potential for the Otay Mesa recycled waterlines utilizing hydraulic modeling.

**JUSTIFICATION OF PROJECT:**

Determining alternative uses for these waterlines will allow for these assets to be used rather than lie dormant.

With the moratorium on extending recycled water to Otay Mesa, the recycled waterlines already installed throughout the area will be evaluated for potential uses.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Betterment ID 22	0 %	100 %	0 %	0 %	100 %
<b>TOTAL:</b>	0 %	100 %	0 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>							
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>	
	\$0	\$35	\$5	\$5	\$5	\$150	\$150	\$350

CIP Number: R2123

**PROJECT SCHEDULE:**

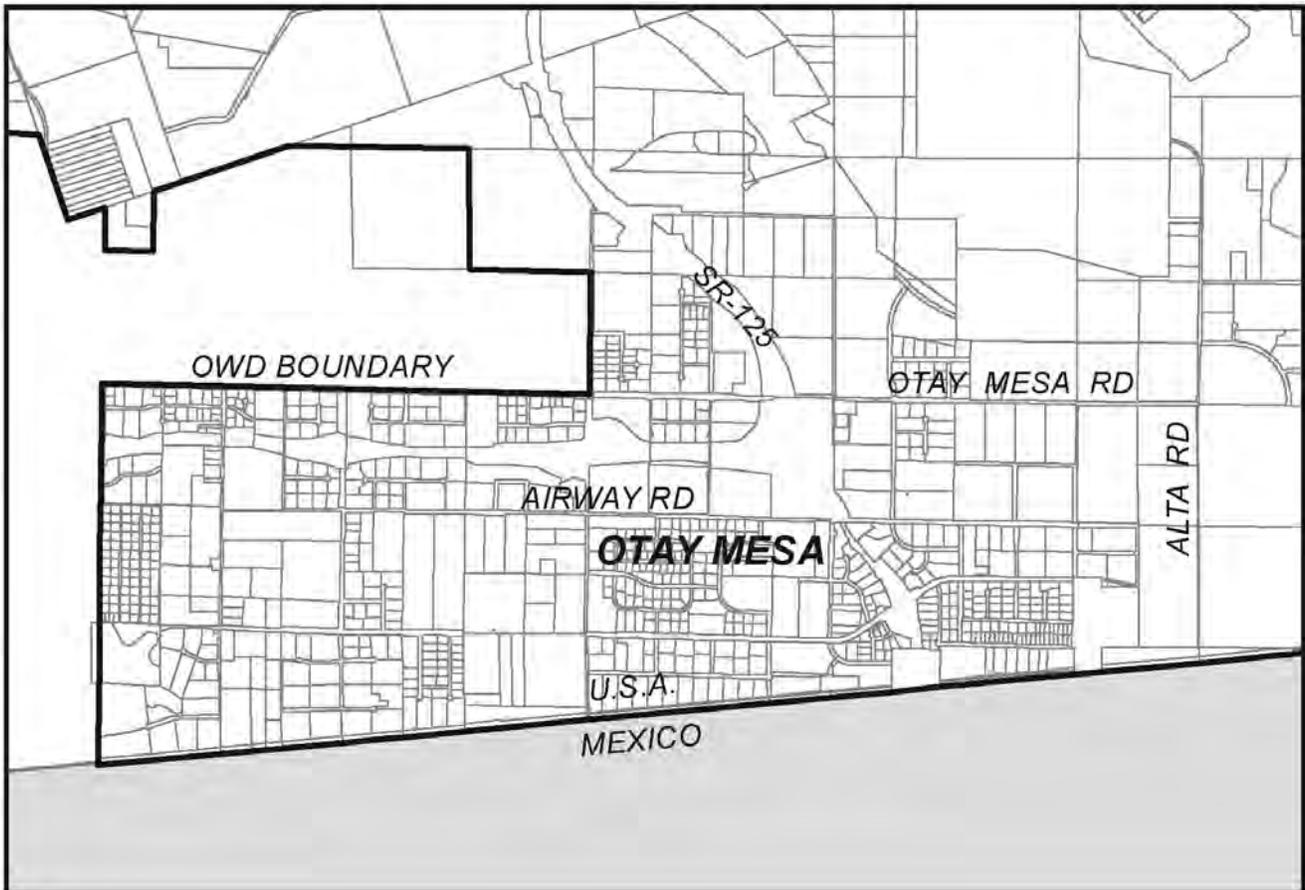
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2016	6/30/2017	\$35
DESIGN:			\$0
CONSTRUCTION:	7/1/2017	6/30/2022	\$315

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Jolene Fielding

**Date:** 4/19/2016

**PROJECT TITLE:** RecPS - 927-1 Pump 5 Replacement

**CIP Number:** R2124

**DIRECTOR DIVISION:** 3

**PROJECT MANAGER:** Don Anderson

**I.D. LOCATION:**

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 1

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$55,000

**DESCRIPTION OF PROJECT:**

This project is to replace the large engine driven recycled water pump #5 at the Ralph W Chapman Water Recycling Facility (RWCWRF) 927-1 Pump Station.

**JUSTIFICATION OF PROJECT:**

Existing pump is old and corroded and has lost efficiency.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$55	\$0	\$0	\$0	\$0	\$55

CIP Number: R2124

**PROJECT SCHEDULE:**

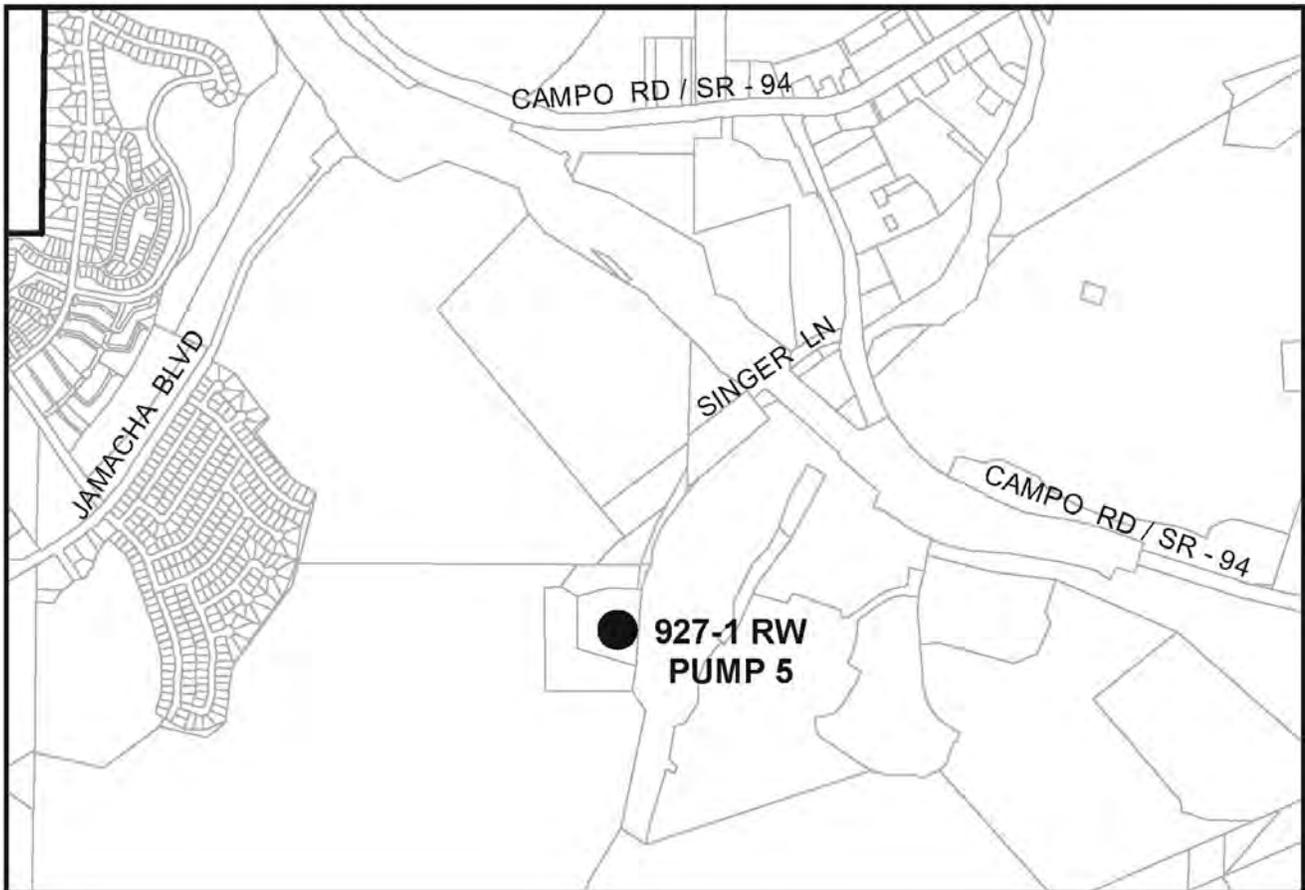
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:			\$0
DESIGN:			\$0
CONSTRUCTION:	7/1/2016	6/30/2017	\$55

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 319**



**Submitted By:** Jolene Fielding

**Date:** 4/19/2016

<b>PROJECT TITLE:</b> San Diego County Sanitation District Outfall and RSD Outfall Replacement		<b>CIP Number:</b> S2012					
<b>PROJECT MANAGER:</b> Stephen Beppler		<b>DIRECTOR DIVISION:</b> 3		<b>I.D. LOCATION:</b> 18		<b>PRIORITY:</b> 1	
<b>ORIGINAL APPROVED DATE:</b> 6/4/2003		<b>BUDGET AMOUNT:</b> \$3,550,000					
<b>DESCRIPTION OF PROJECT:</b>							
This project is for the Otay Water District proportionate share of the San Diego County Sanitation District total costs for replacement of various system components of the existing Spring Valley and Rancho San Diego Outfall Systems per terms of an existing agreement with the SVSD. The reimbursement also includes a proportionate share of operating and maintenance costs.							
<b>JUSTIFICATION OF PROJECT:</b>							
Various components of the San Diego County Sanitation District Spring Valley Outfall and the Rancho San Diego Outfall are in very bad condition and are in need of repair and/or replacement.							
<b>COMMENTS:</b>							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
Replacement	0 %	0 %	100 %	0 %	100 %		
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$1,020	\$150	\$200	\$250	\$300	\$350	\$2,420

**CIP Number: S2012**

**PROJECT SCHEDULE:**

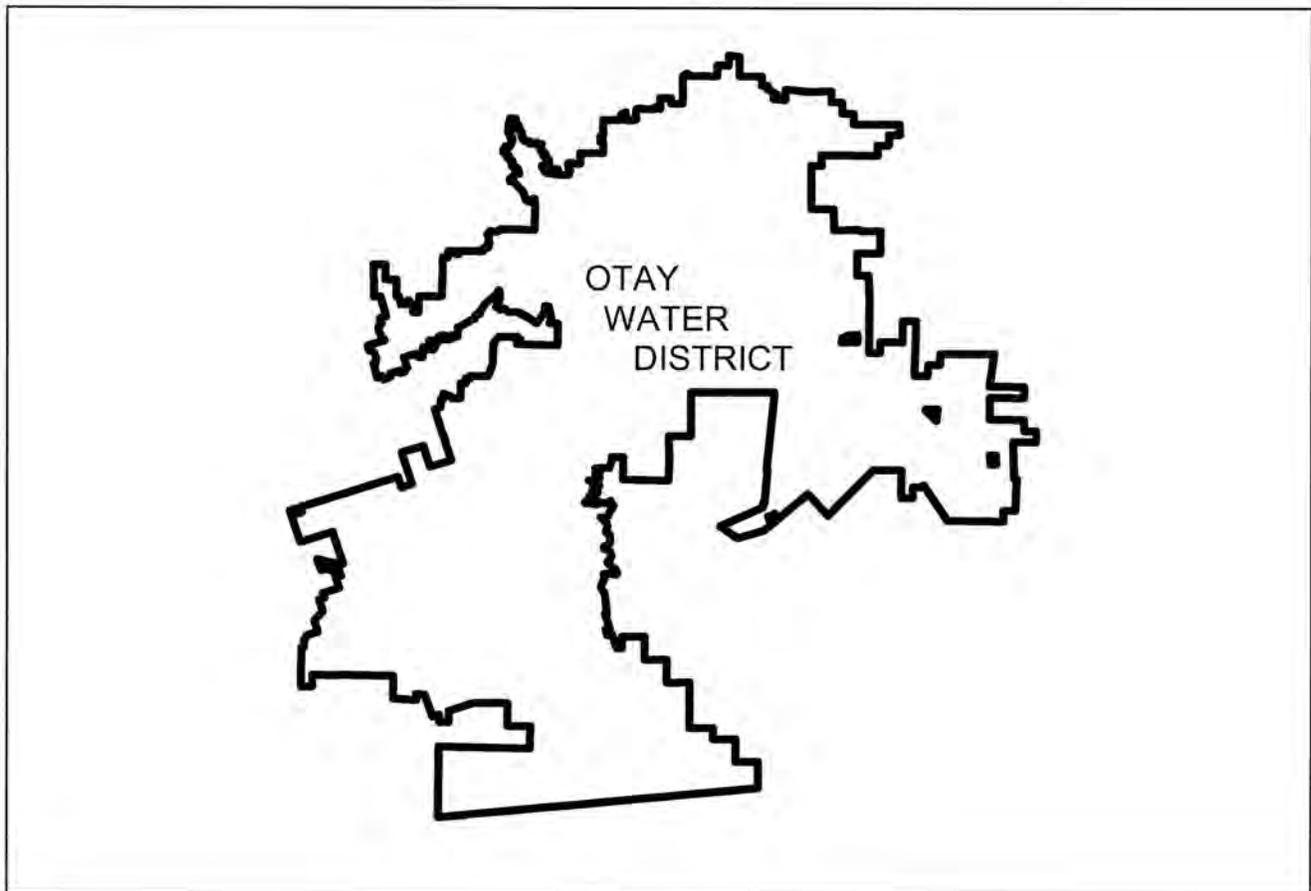
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>			\$0
<b>DESIGN:</b>			\$0
<b>CONSTRUCTION:</b>	7/1/2003	6/30/2025	\$3,550

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Jolene Fielding

**Date:** 4/15/2016

**PROJECT TITLE:** Rancho San Diego Pump Station Rehabilitation

**CIP Number:** S2027

**DIRECTOR DIVISION:** 3

**PROJECT MANAGER:** Stephen Beppler

**I.D. LOCATION:** 18

**ORIGINAL APPROVED DATE:** 5/16/2011

**PRIORITY:** 1

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$3,500,000

**DESCRIPTION OF PROJECT:**

This project provides funding for the rehabilitation of the Rancho San Diego Pump Station located near Singer Lane. The project is being designed and constructed by the County of San Diego, with the District sharing the costs. The County invoices the District once a year.

**JUSTIFICATION OF PROJECT:**

The existing sewer pump station is over 20 years old and the pumps have reached the end of their useful lives. The pump station also needs improvements to bring the station up to current OSHA requirements.

**COMMENTS:**

Project design is complete and the County is in the process of receiving construction bids.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>							
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>	
	\$267	\$50	\$1,200	\$1,200	\$783	\$0	\$0	\$3,500

**CIP Number: S2027**

**PROJECT SCHEDULE:**

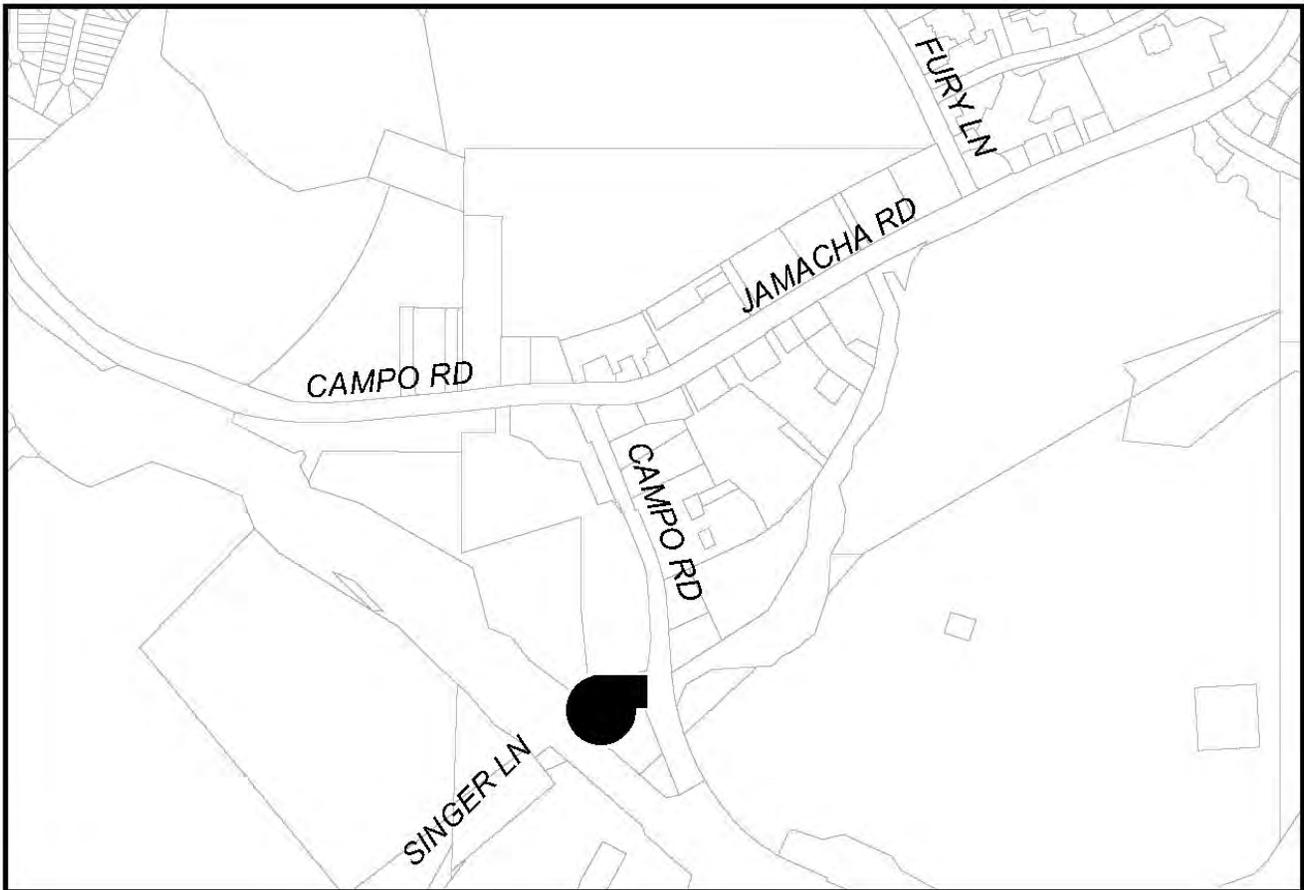
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>	7/1/2011	7/1/2013	\$50
<b>DESIGN:</b>	7/1/2013	9/30/2016	\$500
<b>CONSTRUCTION:</b>	10/1/2016	6/30/2019	\$2,950

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 331**



**Submitted By:** Bob Kennedy

**Date:** 4/28/2016

<b>PROJECT TITLE:</b> Sewer System Rehabilitation		<b>CIP Number: S2033</b>					
<b>PROJECT MANAGER:</b> Stephen Beppler		<b>DIRECTOR DIVISION:</b> 5		<b>I.D. LOCATION:</b> 18		<b>PRIORITY:</b> 1	
<b>ORIGINAL APPROVED DATE:</b> 5/16/2011		<b>BUDGET AMOUNT:</b> \$3,000,000					
<b>RELATED CIP PROJECTS:</b>							
<b>DESCRIPTION OF PROJECT:</b>							
<p>This project is for sewer system rehabilitation efforts that have been identified. These efforts involve replacement of approximately 13,000 lineal-feet of failing or damaged pipe segments, separated pipe joints, etc.</p>							
<b>JUSTIFICATION OF PROJECT:</b>							
<p>The closed circuit television sewer assessment program process has assisted in the identification of sewer mains containing sags, which has allowed debris to form, and/or are damaged and in need of repair.</p>							
<b>COMMENTS:</b>							
<p>Project to be phased out after FY 2017, with remaining work split into separate projects with clearly defined scopes of work and budgets. Construction of the Rancho San Diego (RSD) Basin Phase 1 project will remain under this project. Budget reduced from \$6M to \$3M to reflect this change.</p>							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
Replacement	0 %	0 %	100 %	0 %	100 %		
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$2,800	\$200	\$0	\$0	\$0	\$0	\$3,000

**CIP Number: S2033**

**PROJECT SCHEDULE:**

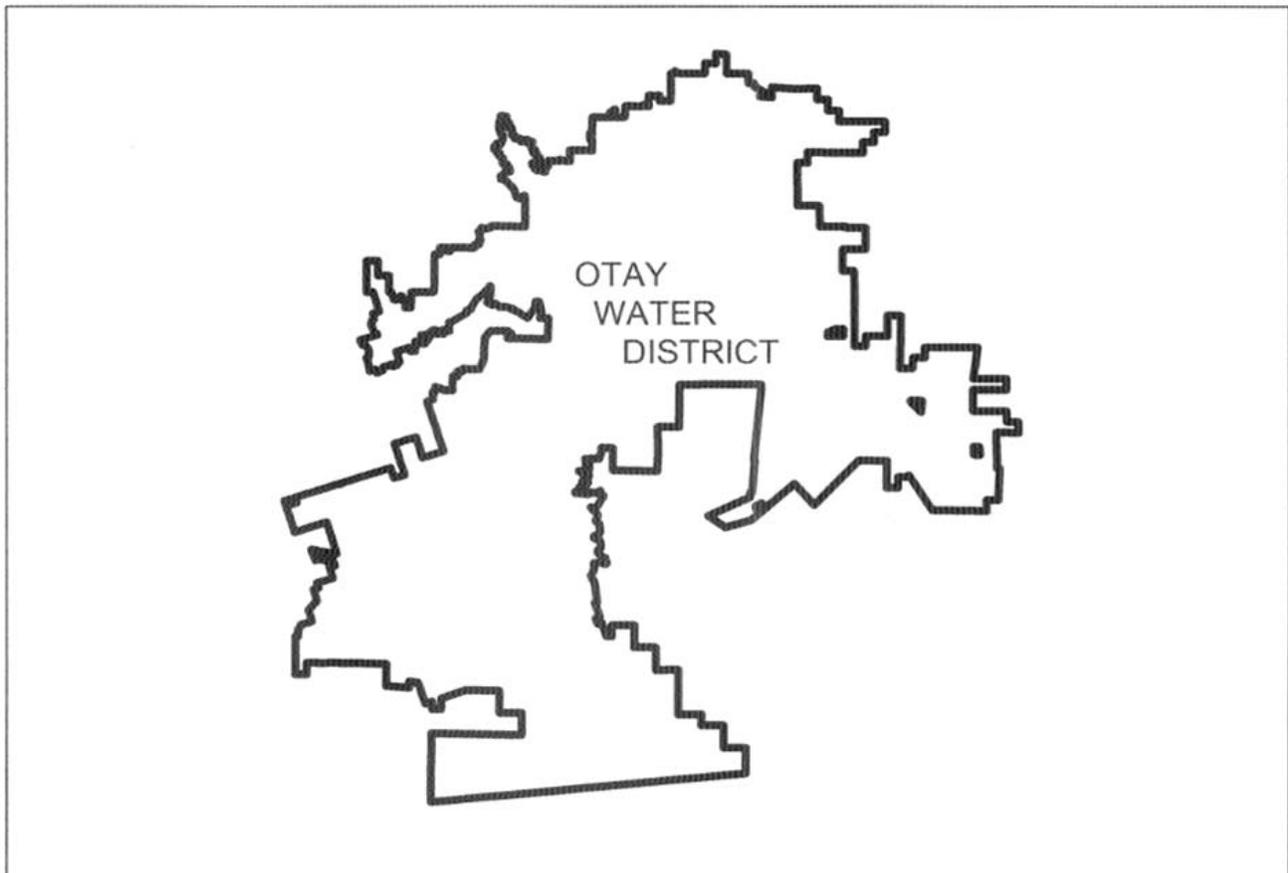
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>	7/1/2011	1/1/2016	\$225
<b>DESIGN:</b>	3/1/2013	1/1/2017	\$775
<b>CONSTRUCTION:</b>	6/30/2014	6/30/2021	\$2,000

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Jolene Fielding

**Date:** 5/10/2016

**PROJECT TITLE:** RWCWRF Sludge Handling System

**CIP Number:** S2043

**DIRECTOR DIVISION:** 3

**PROJECT MANAGER:** Stephen Beppler

**I.D. LOCATION:** 18

**ORIGINAL APPROVED DATE:** 5/14/2013

**PRIORITY:** 3

**RELATED CIP PROJECTS:** R2096

**BUDGET AMOUNT:** \$1,500,000

**DESCRIPTION OF PROJECT:**

This project is for a Sludge Handling System at the Ralph W. Chapman Water Recycling Facility (RWCWRF) to reduce the amount of solids the District sends to Metro.

**JUSTIFICATION OF PROJECT:**

The District currently sends all sludge produced at RWCWRF to Metro for treatment. The District's Wastewater Management Plan provided a preliminary estimate of the cost of handling sludge at the RWCWRF that is close to the cost Metro charges the District for treatment of solids.

**COMMENTS:**

City of San Diego is in the process of determining future sewer rates related to the implementation of the Pure Water Program. Once these rates are established, the feasibility of handling solids at the RWCWRF can be fully assessed.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Betterment ID 18	0 %	100 %	0 %	0 %	100 %
<b>TOTAL:</b>	0 %	100 %	0 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$41	\$1	\$1	\$1	\$1	\$1	\$47

CIP Number: S2043

**PROJECT SCHEDULE:**

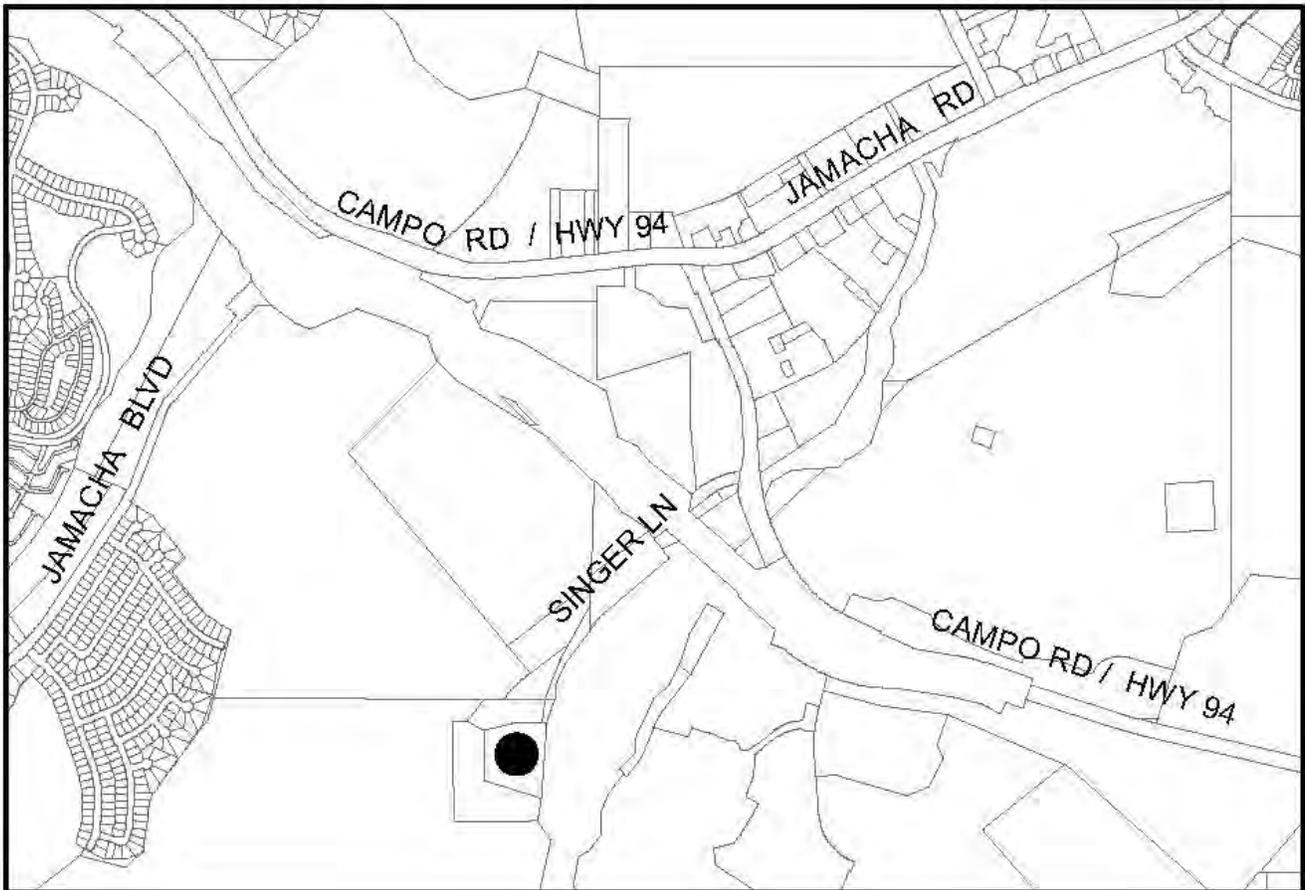
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2013	6/30/2023	\$75
DESIGN:	7/1/2023	6/30/2024	\$200
CONSTRUCTION:	7/1/2024	6/30/2026	\$1,225

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$10,000	\$10,000	\$20,000
ENERGY:	\$0	\$0	\$0	\$0	\$10,000	\$10,000	\$20,000
CHEMICAL:	\$0	\$0	\$0	\$0	\$10,000	\$10,000	\$20,000

**PROJECT LOCATION:**

**OWD Map Book: 319**



**Submitted By:** Bob Kennedy

**Date:** 5/12/2016

**PROJECT TITLE:** Asset Management - Info Master Sewer Implementation **CIP Number:** S2047

**DIRECTOR DIVISION:** 5

**PROJECT MANAGER:** Ming Zhao

**I.D. LOCATION:**

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$58,000

**DESCRIPTION OF PROJECT:**

This project is for the purchase and implementation of sewer asset management decision making software, Info Master Sewer.

**JUSTIFICATION OF PROJECT:**

Allows for asset management of sewer system.

**COMMENTS:**

This was originally part of the P2486 Asset Management CIP. As this portion is for sewer, a separate CIP was created to reflect the different funding resource. The overall CIP amount does not change.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Betterment ID 18	0 %	100 %	0 %	0 %	100 %
<b>TOTAL:</b>	0 %	100 %	0 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$0	\$30	\$28	\$0	\$0	\$58

**CIP Number: S2047**

**PROJECT SCHEDULE:**

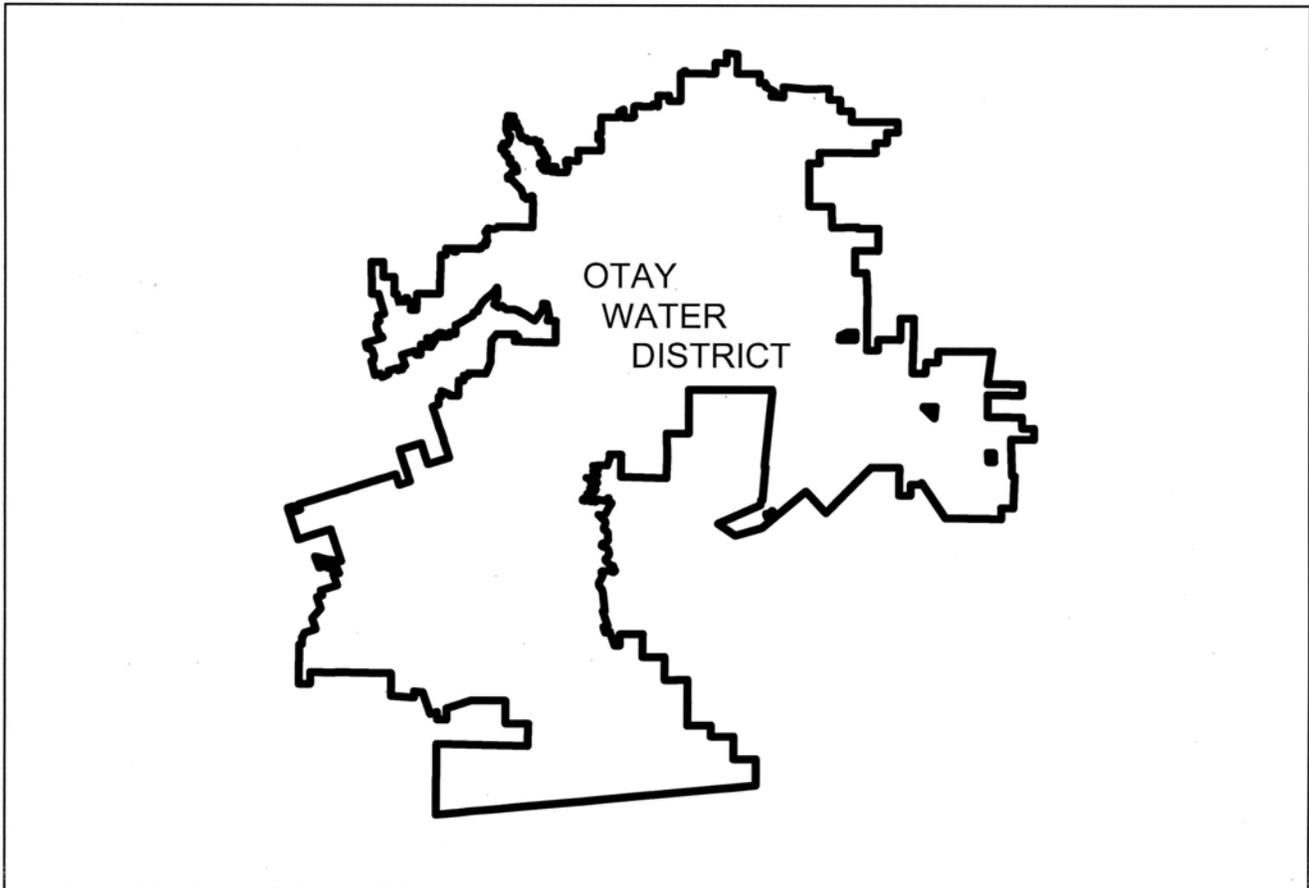
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>	7/1/2017	6/30/2019	\$58
<b>DESIGN:</b>			\$0
<b>CONSTRUCTION:</b>			\$0

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Jolene Fielding

**Date:** 4/19/2016

**OTAY WATER DISTRICT  
CAPITAL IMPROVEMENT PROGRAM**

<b>PROJECT TITLE:</b> PS - 870-2 Pump Station Replacement	<b>CIP Number:</b> P2083
<b>PROJECT MANAGER:</b> Jeff Marchioro	<b>DIRECTOR DIVISION:</b> 2
<b>ORIGINAL APPROVED DATE:</b> 5/17/1995	<b>I.D. LOCATION:</b> 22
<b>RELATED CIP PROJECTS:</b> P2451	<b>PRIORITY:</b> 1
	<b>BUDGET AMOUNT:</b> \$17,000,000

**DESCRIPTION OF PROJECT:**  
This project is for the construction of a new pump station to replace the existing Low Head and High Head Pump Stations.

**JUSTIFICATION OF PROJECT:**  
The two existing Pump Stations have reached the end of their useful lives.

**COMMENTS:**  
Increased overall CIP budget since adding a new 66-inch reservoir outlet pipe (+\$800K), access road utility bench (+\$200K), and District staff cursory refinements to outdated Carollo 60% construction cost estimate (+\$1M).

**FUND DETAILS:**

FUNDING SOURCE:	Expansion	Betterment	Replacement	New Water Supply	Total
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	FY	
TOTAL	2017	2018	2019	2020	2021	2022	Total	
	\$1,710	\$390	\$3,500	\$10,800	\$500	\$50	\$50	\$17,000

CIP Number: P2083

PROJECT SCHEDULE:

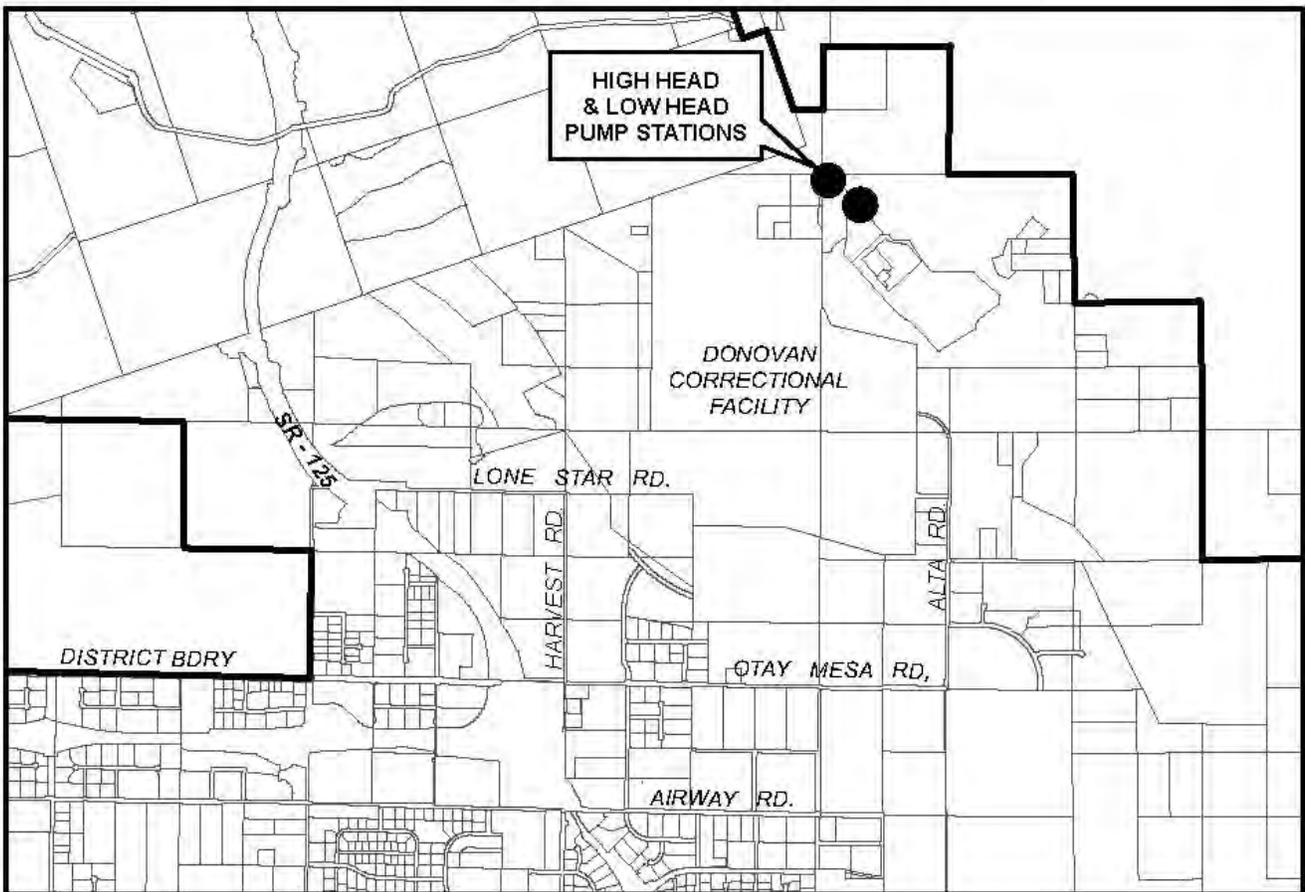
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2013	9/1/2013	\$700
DESIGN:	9/1/2013	3/1/2017	\$1,200
CONSTRUCTION:	3/1/2017	3/1/2022	\$15,100

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 055



Submitted By: Steve Beppler

Date: 4/21/2016

<b>PROJECT TITLE:</b> PS - 1090-1 Pump Station Replacement (400 gpm)		<b>CIP Number:</b> P2174					
<b>PROJECT MANAGER:</b> Jeff Marchioro		<b>DIRECTOR DIVISION:</b>	5				
<b>ORIGINAL APPROVED DATE:</b>		<b>I.D. LOCATION:</b>					
<b>RELATED CIP PROJECTS:</b> P2174, P2176		<b>PRIORITY:</b>	2				
		<b>BUDGET AMOUNT:</b>	\$1,500,000				
<b>DESCRIPTION OF PROJECT:</b>							
<p>This project is for the construction of a new pump station to replace the existing pump station. Improve pump station to include fire pump (1,500 gpm) and closed zone capability to eliminate the need for redundant 1090 Pressure Zone Reservoir (CIP P2176).</p>							
<b>JUSTIFICATION OF PROJECT:</b>							
<p>The existing pump station, originally constructed in 1962, has reached the end of its useful life.</p>							
<b>COMMENTS:</b>							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
Replacement	0 %	0 %	100 %	0 %	100 %		
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$1	\$150	\$200	\$1,149	\$0	\$1,500

CIP Number: P2174

PROJECT SCHEDULE:

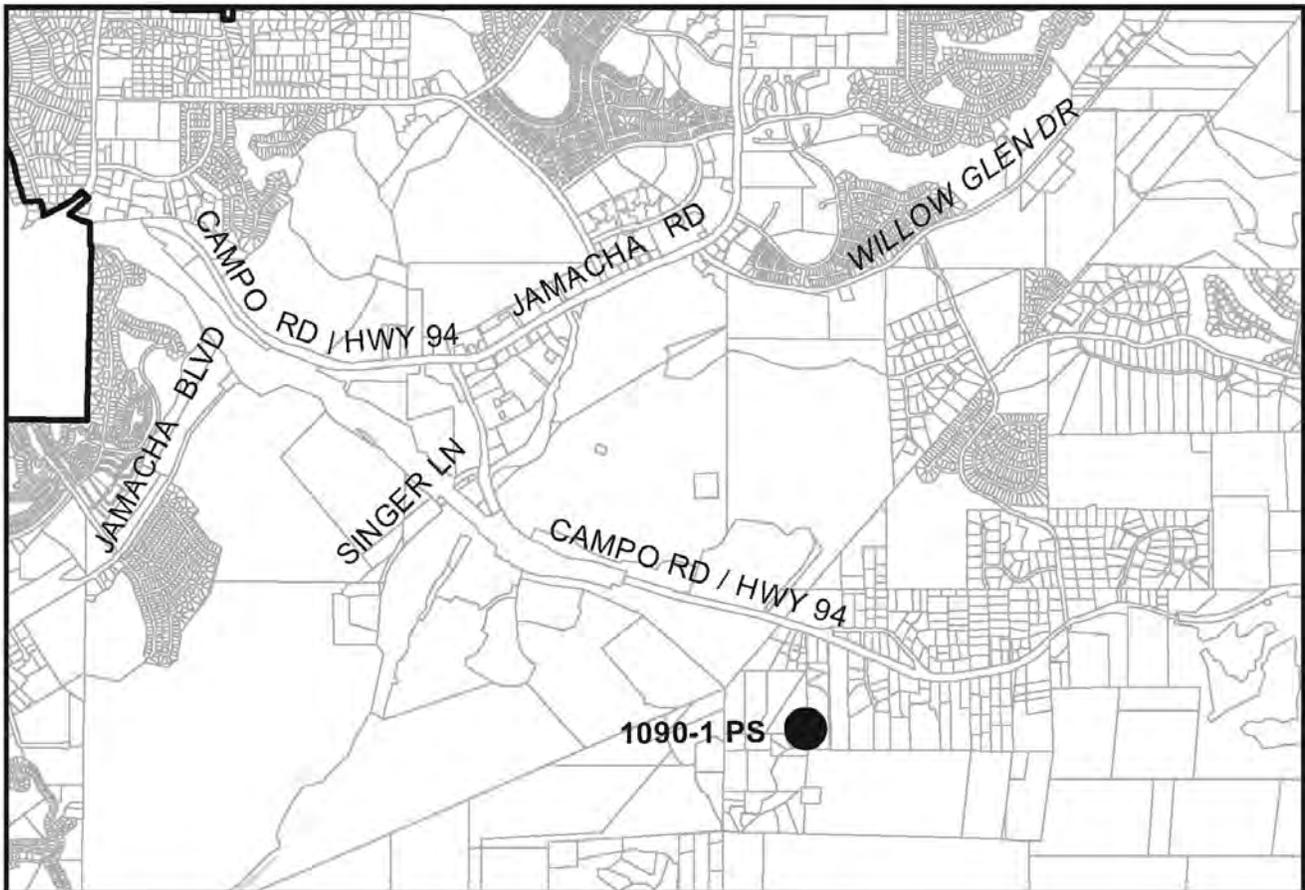
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2017	4/30/2018	\$150
DESIGN:	5/1/2018	4/30/2019	\$200
CONSTRUCTION:	5/1/2019	6/30/2020	\$1,150

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 320



Submitted By: OTAY\Jeff.Marchioro

Date: 4/21/2016

**PROJECT TITLE:** PL - 20-Inch Pipeline Replacement, 711 Zone, Otay Lakes Road -  
at Santa Paula

**CIP Number:** P2400

**DIRECTOR DIVISION:** 1

**PROJECT MANAGER:** Jeff Marchioro

**I.D. LOCATION:**

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$2,000,000

**DESCRIPTION OF PROJECT:**

This project is to replace 3,700 feet of 16-inch asbestos concrete water main in Otay Lakes Road at Santa Paula.

**JUSTIFICATION OF PROJECT:**

The existing water main bottlenecks from 20-inch down to 16-inch. The existing 16-inch pipe causes high head loss at peak flow; zone is already strapped for head because of volume supplied and length of zone.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	60 %	0 %	60 %
Betterment ID 22	0 %	40 %	0 %	0 %	40 %
<b>TOTAL:</b>	0 %	40 %	60 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$0	\$0	\$150	\$350	\$1,500	\$2,000

CIP Number: P2400

PROJECT SCHEDULE:

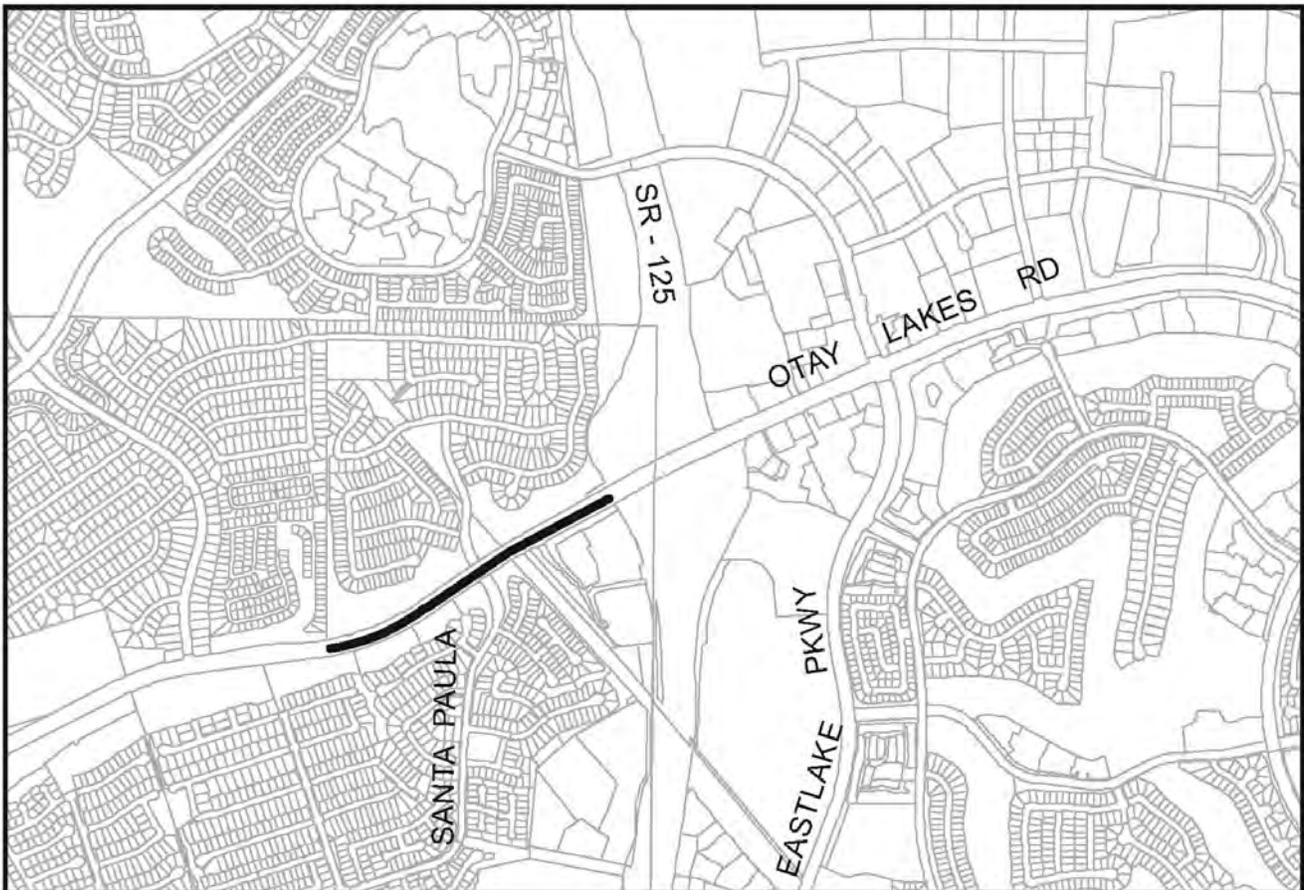
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2019	6/30/2020	\$150
DESIGN:	7/1/2020	6/30/2021	\$350
CONSTRUCTION:	7/1/2021	6/30/2022	\$1,500

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 130



Submitted By: Jolene Fielding

Date: 4/19/2016

**PROJECT TITLE:** 624-2 Reservoir Interior/Exterior Coating

**CIP Number:** P2493

**PROJECT MANAGER:** Kevin Cameron

**DIRECTOR DIVISION:** 4

**ORIGINAL APPROVED DATE:** 5/21/2009

**I.D. LOCATION:** 22

**RELATED CIP PROJECTS:**

**PRIORITY:** 1

**BUDGET AMOUNT:** \$1,675,000

**DESCRIPTION OF PROJECT:**

This project is for the interior and exterior coating of the 624-2 Reservoir. In addition, an assessment of the facility will be accomplished to assure compliance to all applicable codes and OSHA standards.

**JUSTIFICATION OF PROJECT:**

Based upon the most recent reservoir assessment report dated August 8, 2008, the 624-2 Reservoir interior coating is in relatively poor condition and is in need of replacement. Based on the FY 2012 Corrosion Report for Reservoir Coatings, the exterior was scheduled to be replaced in FY 2013.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
\$1,555	\$60	\$60	\$0	\$0	\$0	\$0	\$1,675

CIP Number: P2493

**PROJECT SCHEDULE:**

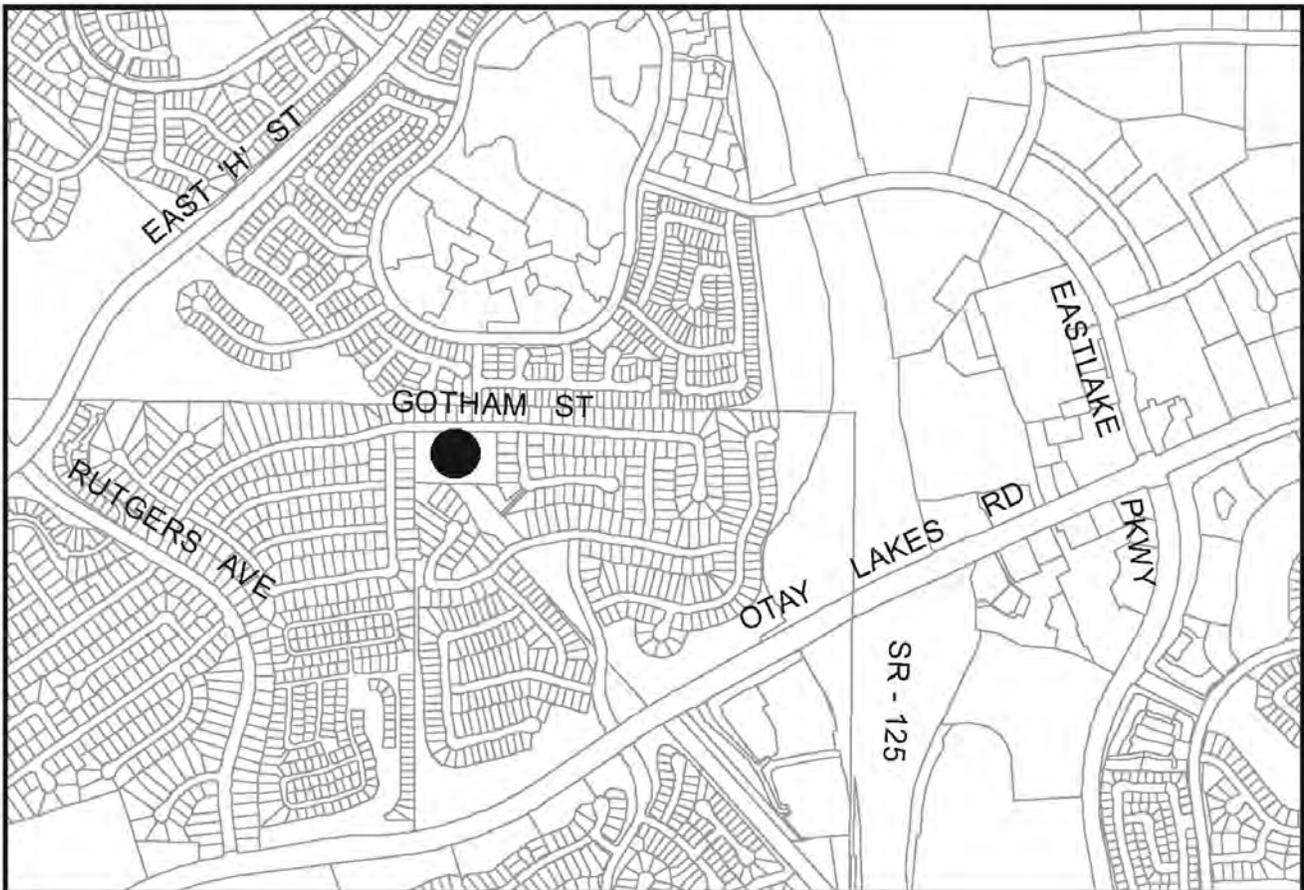
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2009	8/1/2010	\$5
DESIGN:	9/1/2010	12/31/2013	\$95
CONSTRUCTION:	1/8/2014	6/30/2017	\$1,575

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 130**



**Submitted By:** Jolene Fielding

**Date:** 4/14/2016

**PROJECT TITLE:** East Palomar Street Utility Relocation

**CIP Number:** P2507

**DIRECTOR DIVISION:** 2

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:** 5/17/2010

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$940,000

**DESCRIPTION OF PROJECT:**

This project is for the utility relocations due to construction improvements to I-805 near East Palomar Street. Both the existing potable and recycled water systems will be impacted.

**JUSTIFICATION OF PROJECT:**

Caltrans will be making improvements to I-805 that will result in conflicts with existing pipelines. Project funds reimbursement to Caltrans.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$720	\$120	\$100	\$0	\$0	\$0	\$940

CIP Number: P2507

**PROJECT SCHEDULE:**

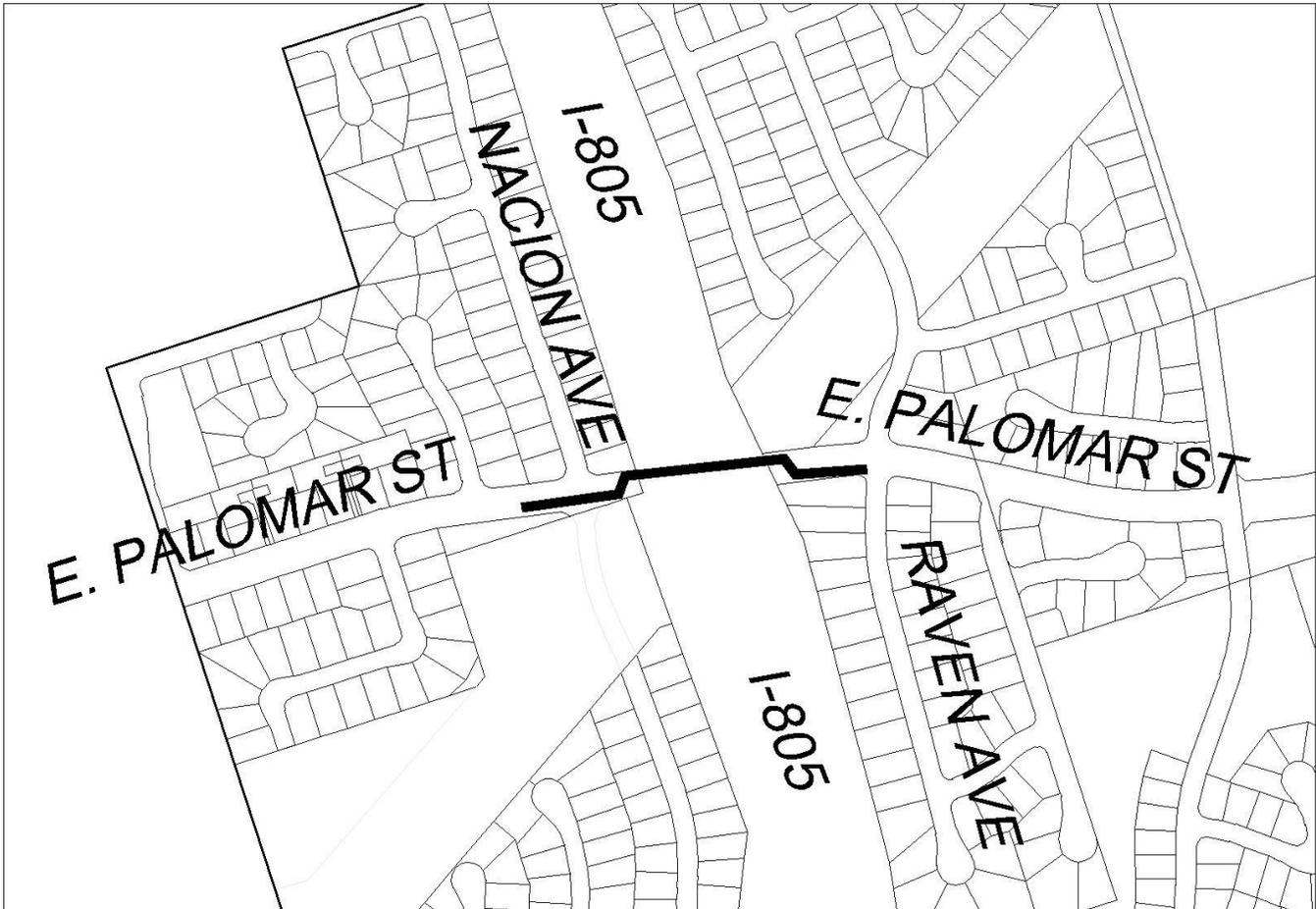
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2010	12/1/2010	\$5
DESIGN:	1/1/2011	12/1/2012	\$245
CONSTRUCTION:	1/1/2013	6/30/2018	\$690

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 80**



**Submitted By:** Jolene Fielding

**Date:** 4/14/2016

<b>PROJECT TITLE:</b> Pipeline Cathodic Protection Replacement Program		<b>CIP Number:</b> P2508					
<b>PROJECT MANAGER:</b> Jeff Marchioro		<b>DIRECTOR DIVISION:</b>	0				
<b>ORIGINAL APPROVED DATE:</b> 5/17/2010		<b>I.D. LOCATION:</b>	District Wide				
<b>RELATED CIP PROJECTS:</b>		<b>PRIORITY:</b>	1				
		<b>BUDGET AMOUNT:</b>	\$725,000				
<b>DESCRIPTION OF PROJECT:</b>							
This project is for the replacement and repairs of existing cathodic protection systems on various pipelines.							
<b>JUSTIFICATION OF PROJECT:</b>							
The ongoing cathodic protection program efforts have identified various pipelines for anode replacement, cathodic test station repairs, installation of isolation kits, and repair of existing anode beds.							
<b>COMMENTS:</b>							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
Replacement	0 %	0 %	100 %	0 %	100 %		
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$229	\$300	\$100	\$96	\$0	\$0	\$725

**CIP Number: P2508**

**PROJECT SCHEDULE:**

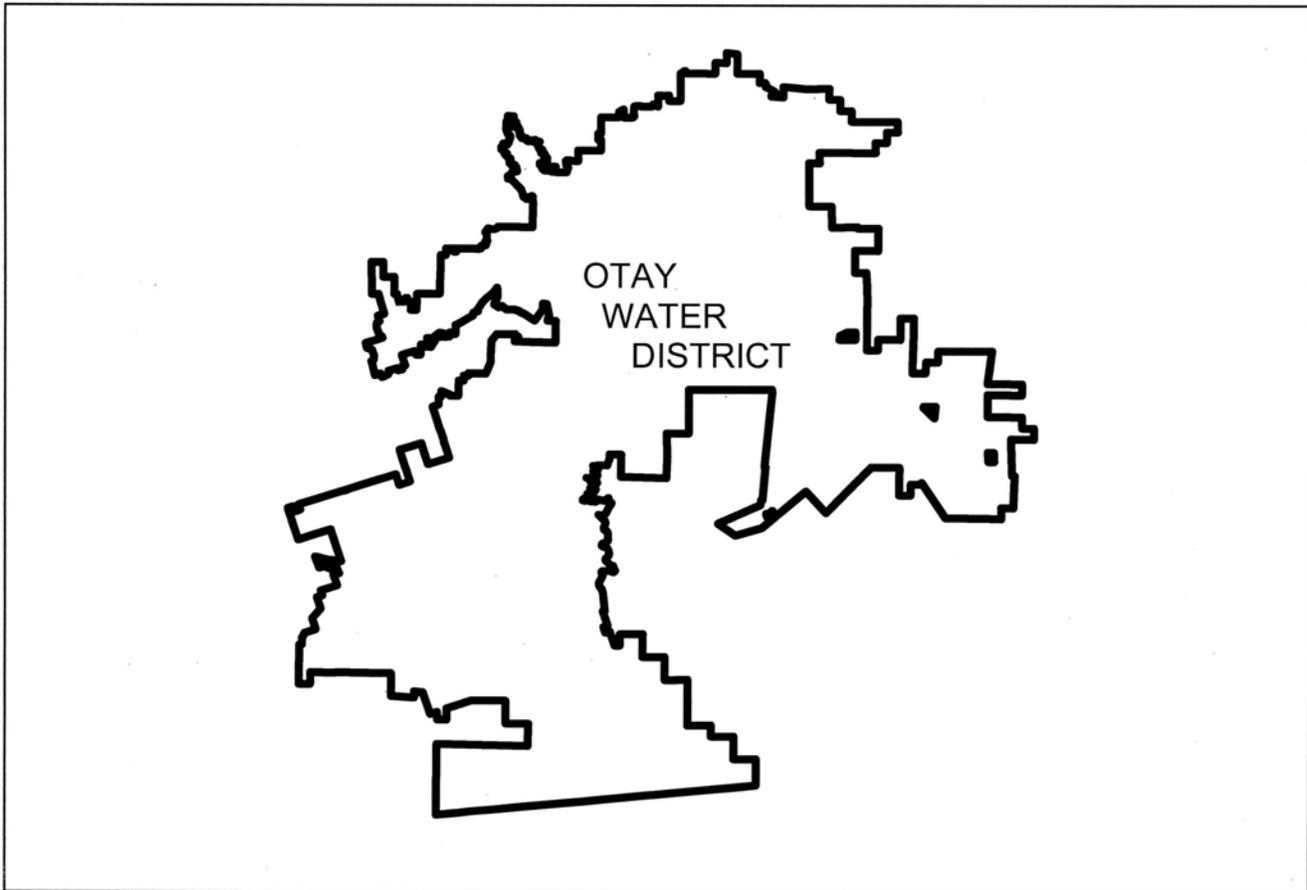
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>	7/1/2010	6/30/2016	\$50
<b>DESIGN:</b>	7/1/2014	6/30/2016	\$100
<b>CONSTRUCTION:</b>	10/1/2014	6/30/2019	\$575

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** OTAY\Jeff.Marchioro

**Date:** 4/14/2016

**PROJECT TITLE:** 803-3 Reservoir Interior/Exterior Coating

**CIP Number:** P2518

**DIRECTOR DIVISION:** 5

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:** 5/15/2012

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$700,000

**DESCRIPTION OF PROJECT:**

This project provides funding for the interior and exterior coating of the 803-3 Reservoir. In addition, an assessment of the facility will be accomplished to assure compliance to all applicable codes and OSHA standards.

**JUSTIFICATION OF PROJECT:**

Based upon the 2010 Cathodic Assessment Report, the 803-3 Reservoir interior and exterior coatings are in relatively poor condition and are in need of replacement.

**COMMENTS:**

Project complete. Project to be suspended until warranty inspection in 2017.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$640	\$40	\$20	\$0	\$0	\$0	\$700

CIP Number: P2518

**PROJECT SCHEDULE:**

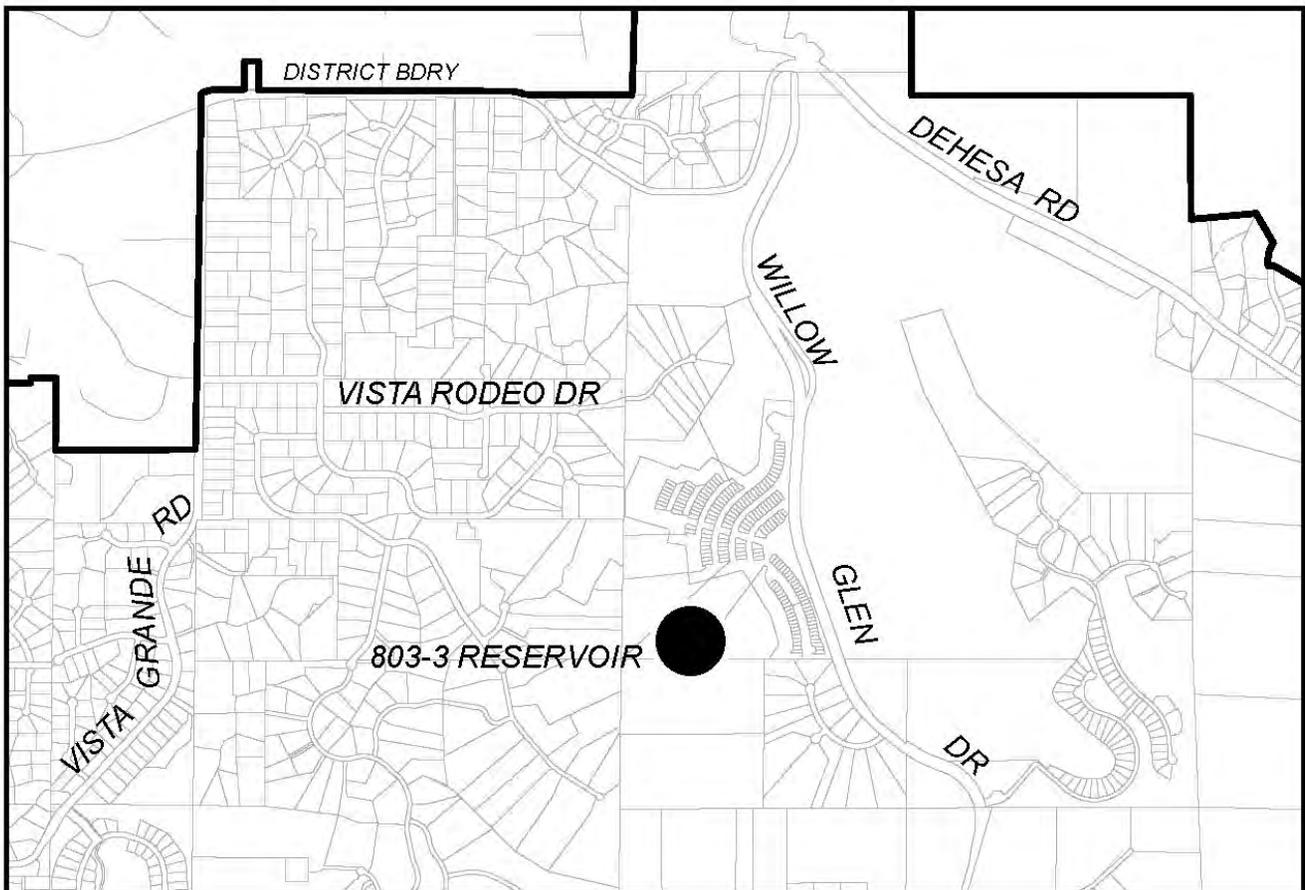
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2011	9/1/2012	\$10
DESIGN:	10/1/2012	12/1/2013	\$65
CONSTRUCTION:	1/1/2013	7/31/2016	\$625

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 370**



**Submitted By:** Jolene Fielding

**Date:** 4/19/2016

**PROJECT TITLE:** 832-2 Reservoir Interior/Exterior Coating

**CIP Number:** P2519

**DIRECTOR DIVISION:** 5

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:** 5/15/2012

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$750,000

**DESCRIPTION OF PROJECT:**

This project provides funding for the interior and exterior coating of the 832-2 Reservoir. In addition, an assessment of the facility will be accomplished to assure compliance to all applicable codes and OSHA standards.

**JUSTIFICATION OF PROJECT:**

Based upon the 2010 Cathodic Assessment Report, the 832-2 Reservoir interior and exterior coatings are in relatively poor condition and are in need of replacement.

**COMMENTS:**

Project under construction.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$665	\$65	\$20	\$0	\$0	\$0	\$750

CIP Number: P2519

**PROJECT SCHEDULE:**

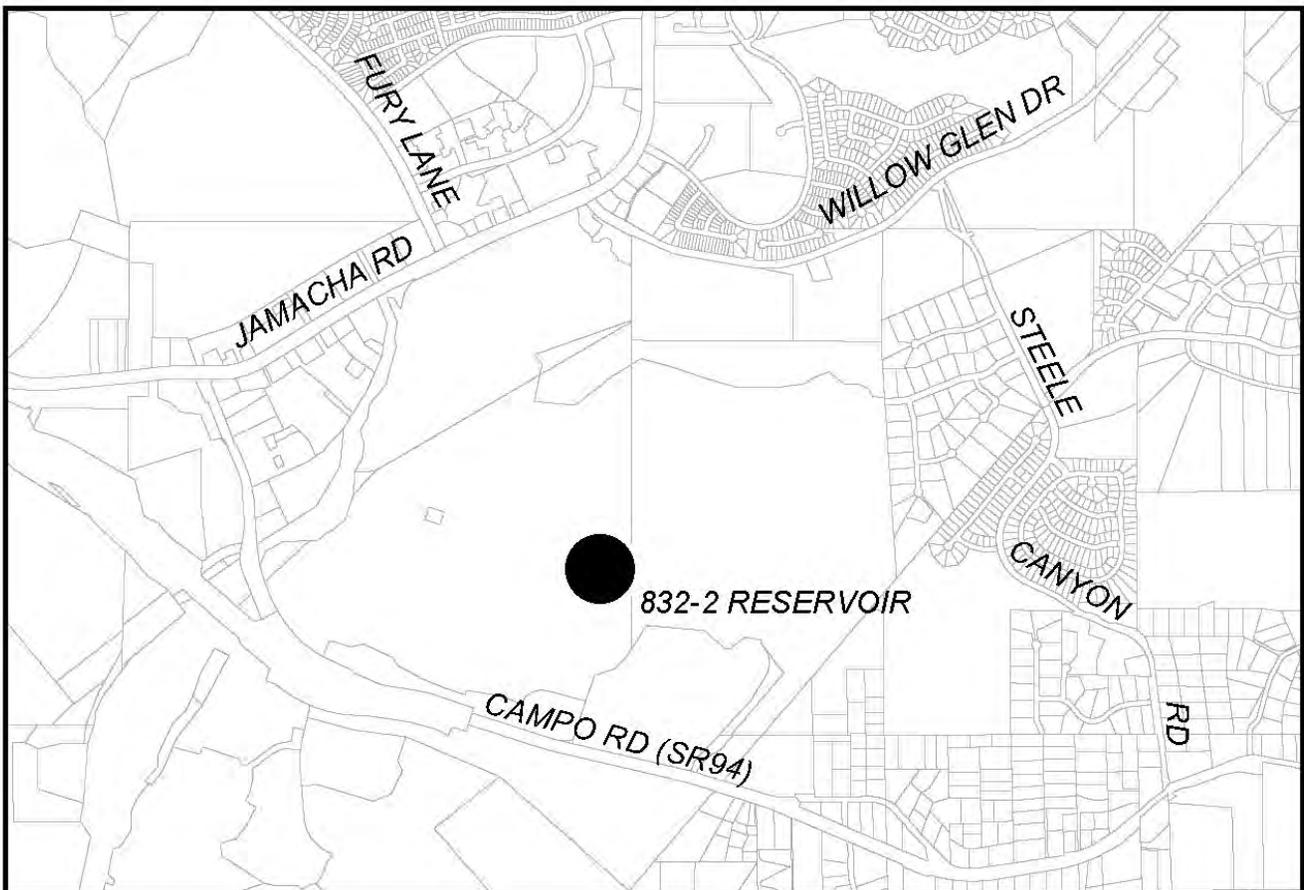
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2011	9/1/2012	\$10
DESIGN:	10/1/2012	12/1/2013	\$50
CONSTRUCTION:	1/1/2013	7/31/2016	\$690

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 332**



**Submitted By:** Kevin Cameron

**Date:** 3/8/2016

**PROJECT TITLE:** 711-2 Reservoir Interior & Exterior Coating

**CIP Number:** P2529

**DIRECTOR DIVISION:** 1

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:** P2530

**BUDGET AMOUNT:** \$840,000

**DESCRIPTION OF PROJECT:**

This project is for the interior and exterior coating of the 711-2 Reservoir. In addition, an assessment of the facility will be accomplished to assure compliance to all applicable codes and OSHA standards.

**JUSTIFICATION OF PROJECT:**

Based upon the 2011 Cathodic Assessment Report, the 711-2 Reservoir interior and exterior coatings are in relatively poor condition and are in need of replacement.

**COMMENTS:**

Budget increase from \$790K to \$840K in anticipation of structural repairs that have been encountered on many of the tanks recoated in the past few years.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$405	\$360	\$25	\$50	\$0	\$0	\$840

CIP Number: P2529

**PROJECT SCHEDULE:**

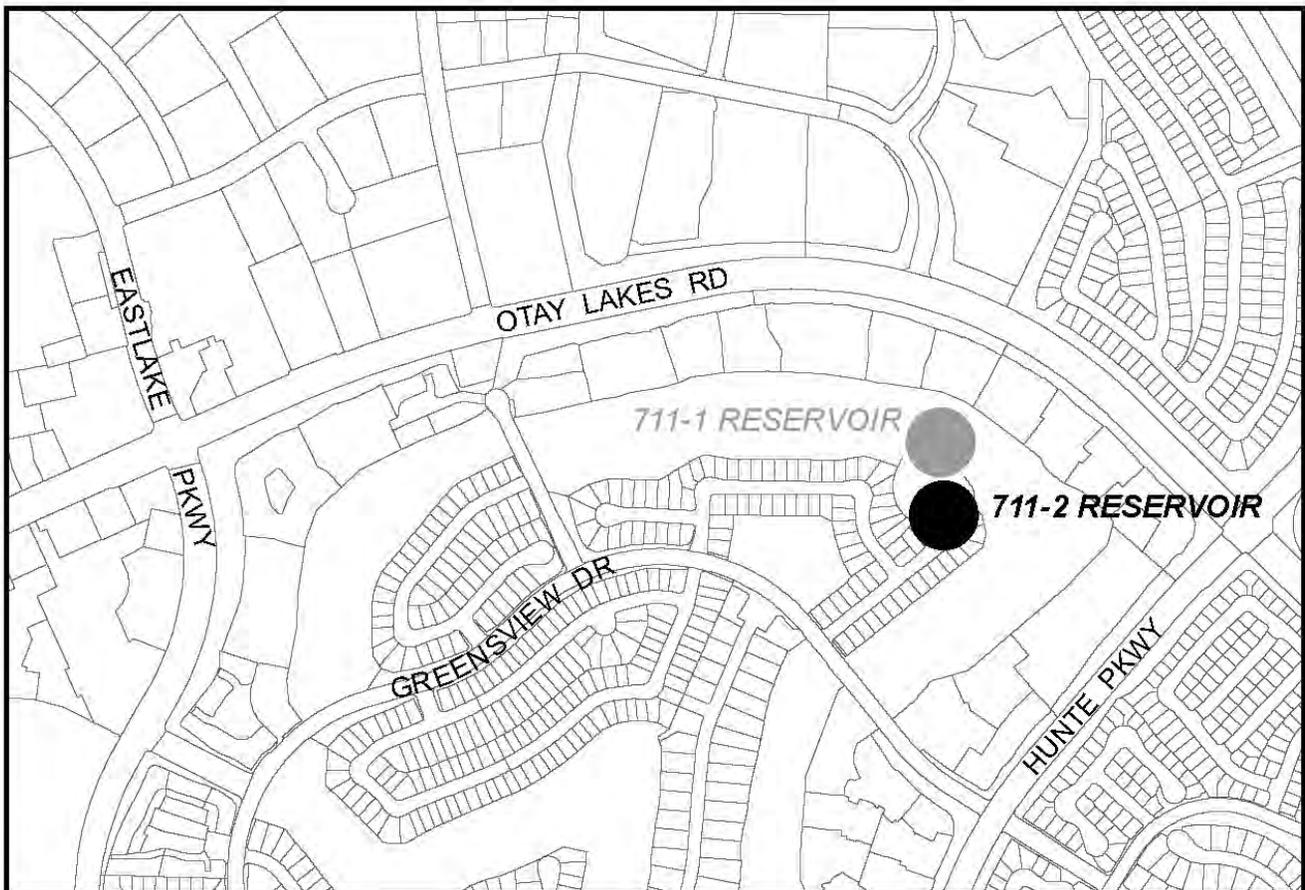
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	6/1/2015	8/31/2015	\$10
DESIGN:	9/1/2015	12/31/2015	\$65
CONSTRUCTION:	1/1/2016	12/31/2018	\$765

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 131**



**Submitted By:** Steve Beppler

**Date:** 5/6/2016

**PROJECT TITLE:** 711-1 Reservoir Interior & Exterior Coating

**CIP Number:** P2530

**DIRECTOR DIVISION:** 1

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:** P2529

**BUDGET AMOUNT:** \$1,040,000

**DESCRIPTION OF PROJECT:**

This project is for the interior and exterior coating of the 711-1 Reservoir. In addition, an assessment of the facility will be accomplished to assure compliance to all applicable codes and OSHA standards.

**JUSTIFICATION OF PROJECT:**

Based upon the 2011 Cathodic Assessment Report, the 711-1 Reservoir interior and exterior coatings are in relatively poor condition and are in need of replacement.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$850	\$90	\$50	\$50	\$0	\$0	\$1,040

CIP Number: P2530

PROJECT SCHEDULE:

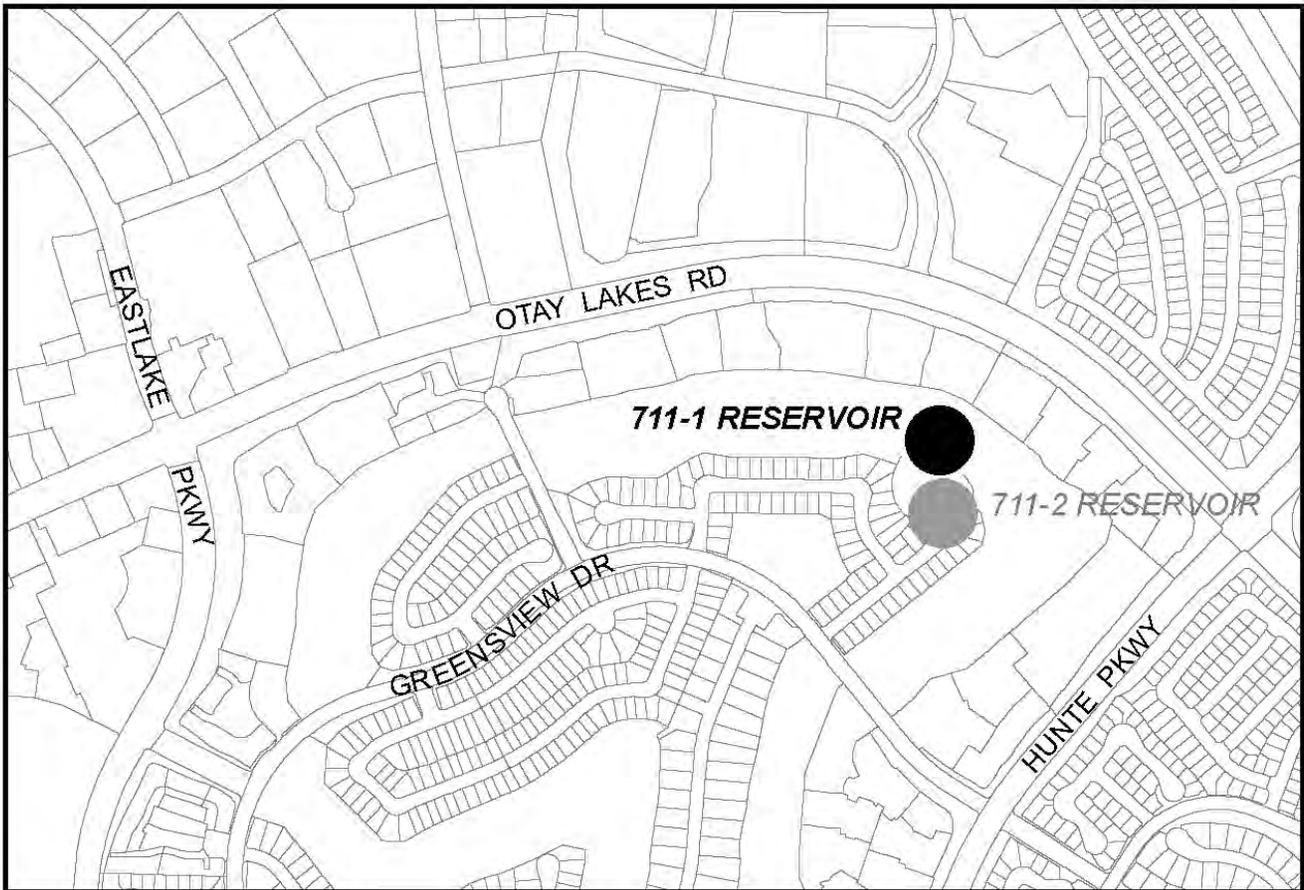
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	6/1/2015	8/31/2015	\$10
DESIGN:	9/1/2015	12/31/2015	\$65
CONSTRUCTION:	1/1/2016	12/31/2018	\$965

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 131



Submitted By: Jolene Fielding

Date: 4/15/2016

**PROJECT TITLE:** 944-1 Reservoir Interior & Exterior Coating

**CIP Number:** P2531

**DIRECTOR DIVISION:** 5

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 1

**RELATED CIP PROJECTS:** P2532

**BUDGET AMOUNT:** \$410,000

**DESCRIPTION OF PROJECT:**

This project is for the interior and exterior coating of the 944-1 Reservoir. In addition, an assessment of the facility will be accomplished to assure compliance to all applicable codes and OSHA standards.

**JUSTIFICATION OF PROJECT:**

Based upon the 2011 Cathodic Assessment Report, the 944-1 Reservoir interior and exterior coatings are in relatively poor condition and are in need of replacement.

**COMMENTS:**

Budget increased from \$390K to \$410K to reflect actual bid amount for structural improvements discovered during construction.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$310	\$50	\$0	\$0	\$0	\$0	\$410

CIP Number: P2531

**PROJECT SCHEDULE:**

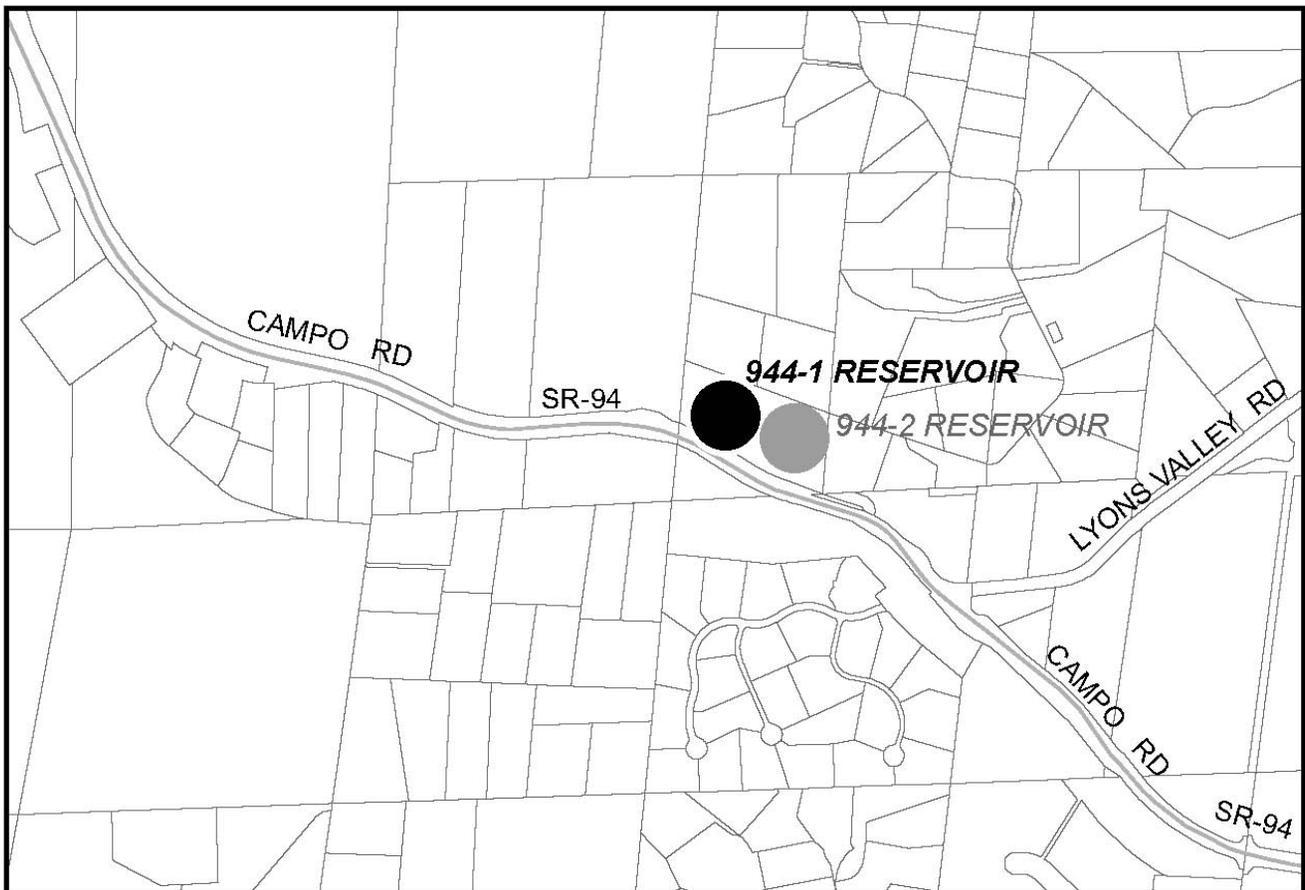
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	5/1/2014	6/30/2014	\$10
DESIGN:	7/1/2014	12/30/2014	\$60
CONSTRUCTION:	12/31/2014	6/29/2018	\$340

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 322**



**Submitted By:** Jolene Fielding

**Date:** 4/15/2016

**PROJECT TITLE:** 944-2 Reservoir Interior & Exterior Coating

**CIP Number:** P2532

**DIRECTOR DIVISION:** 5

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:** P2531

**BUDGET AMOUNT:** \$1,050,000

**DESCRIPTION OF PROJECT:**

This project is for the interior and exterior coating of the 944-2 Reservoir. In addition, an assessment of the facility will be accomplished to assure compliance to all applicable codes and OSHA standards.

**JUSTIFICATION OF PROJECT:**

Based upon the 2011 Cathodic Assessment Report, the 944-2 Reservoir interior and exterior coatings are in relatively poor condition and are in need of replacement.

**COMMENTS:**

Budget increased from \$946K to \$1.05M to reflect actual bid amount and anticipated structural improvements encountered on many other tanks being recoated.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$950	\$50	\$0	\$0	\$0	\$0	\$1,050

CIP Number: P2532

**PROJECT SCHEDULE:**

PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	5/1/2014	6/30/2014	\$10
DESIGN:	7/1/2014	10/31/2014	\$75
CONSTRUCTION:	12/31/2014	6/29/2018	\$965

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 322**



**Submitted By:** Jolene Fielding

**Date:** 5/10/2016

<b>PROJECT TITLE:</b> 1200-1 Reservoir Interior & Exterior Coating		<b>CIP Number:</b> P2533	
<b>PROJECT MANAGER:</b> Kevin Cameron		<b>DIRECTOR DIVISION:</b>	5
<b>ORIGINAL APPROVED DATE:</b>		<b>I.D. LOCATION:</b>	22
<b>RELATED CIP PROJECTS:</b>		<b>PRIORITY:</b>	2
		<b>BUDGET AMOUNT:</b>	\$810,000

**DESCRIPTION OF PROJECT:**

This project is for the interior and exterior coating of the 1200-1 Reservoir. In addition, an assessment of the facility will be accomplished to assure compliance to all applicable codes and OSHA standards.

**JUSTIFICATION OF PROJECT:**

Based upon the 2011 Cathodic Assessment Report, the 1200-1 Reservoir interior and exterior coatings are in relatively poor condition and are in need of replacement.

**COMMENTS:**

Budget increased from \$565K to \$810K to reflect latest bid results and include structural improvements required on many tanks recently recoated.

<b>FUND DETAILS:</b>					
FUNDING SOURCE:	Expansion	Betterment	Replacement	New Water Supply	Total
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	FY
TOTAL	2017	2018	2019	2020	2021	2022	Total
	\$0	\$10	\$700	\$50	\$50	\$0	\$810

CIP Number: P2533

**PROJECT SCHEDULE:**

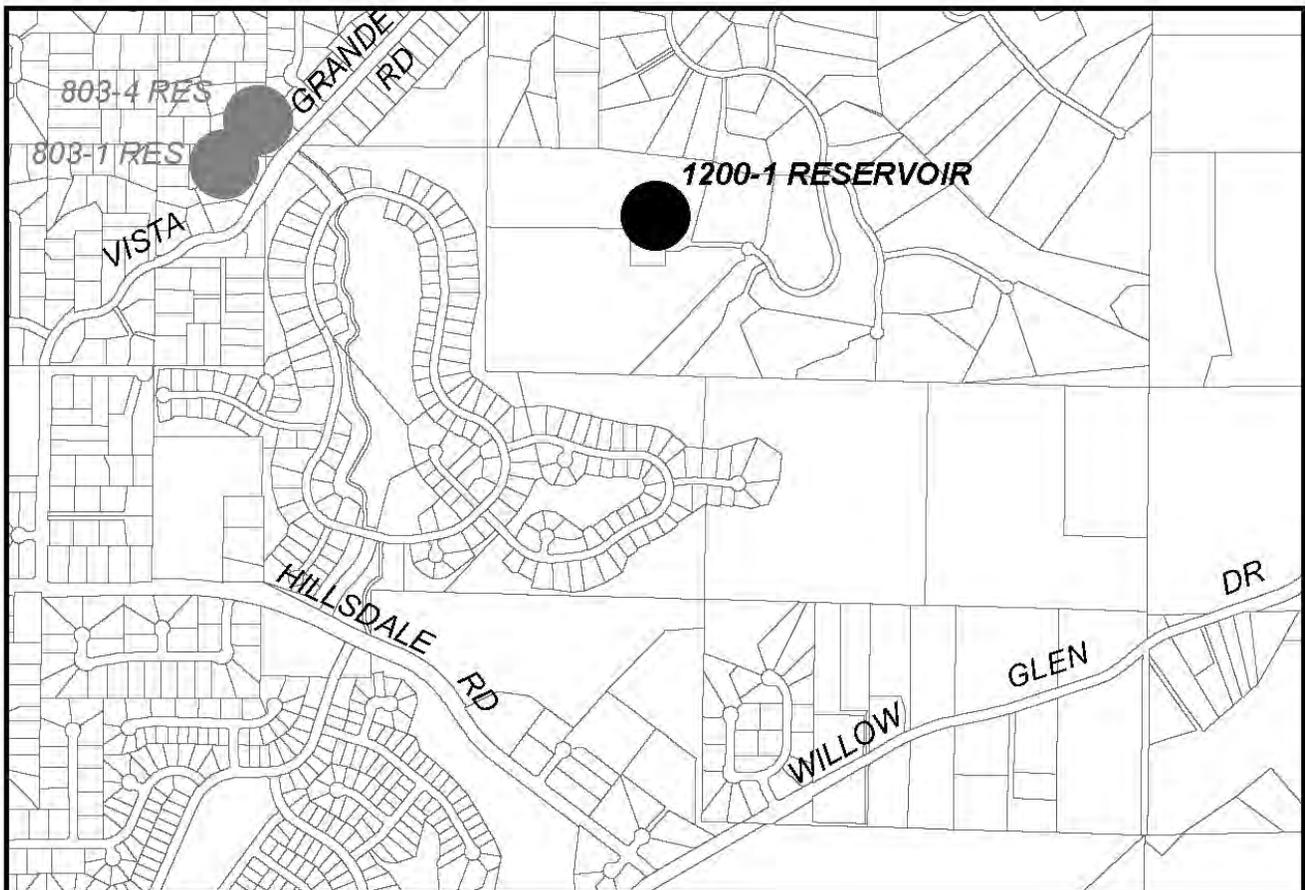
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	6/1/2016	7/31/2017	\$20
DESIGN:	8/3/2017	3/2/2018	\$60
CONSTRUCTION:	3/5/2018	6/30/2020	\$730

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 369**



**Submitted By:** Steve Beppler

**Date:** 4/21/2016

**PROJECT TITLE:** 978-1 Reservoir Interior & Exterior Coating

**CIP Number:** P2534

**DIRECTOR DIVISION:** 5

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$715,000

**DESCRIPTION OF PROJECT:**

This project is for the interior and exterior coating of the 978-1 Reservoir. In addition, an assessment of the facility will be accomplished to assure compliance to all applicable codes and OSHA standards.

**JUSTIFICATION OF PROJECT:**

Based upon the 2011 Cathodic Assessment Report, the 978-1 Reservoir interior and exterior coatings are in relatively poor condition and are in need of replacement.

**COMMENTS:**

Budget increased from \$325K to \$715K to reflect latest bid results and include structural improvements required on many tanks recently recoated. The 978-1 was recently cleaned to remove silt, and a video of the tank showed fragments of steel on the floor. The rafters will need to be replaced. The tank was built in 1959.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$615	\$50	\$50	\$0	\$0	\$715

CIP Number: P2534

**PROJECT SCHEDULE:**

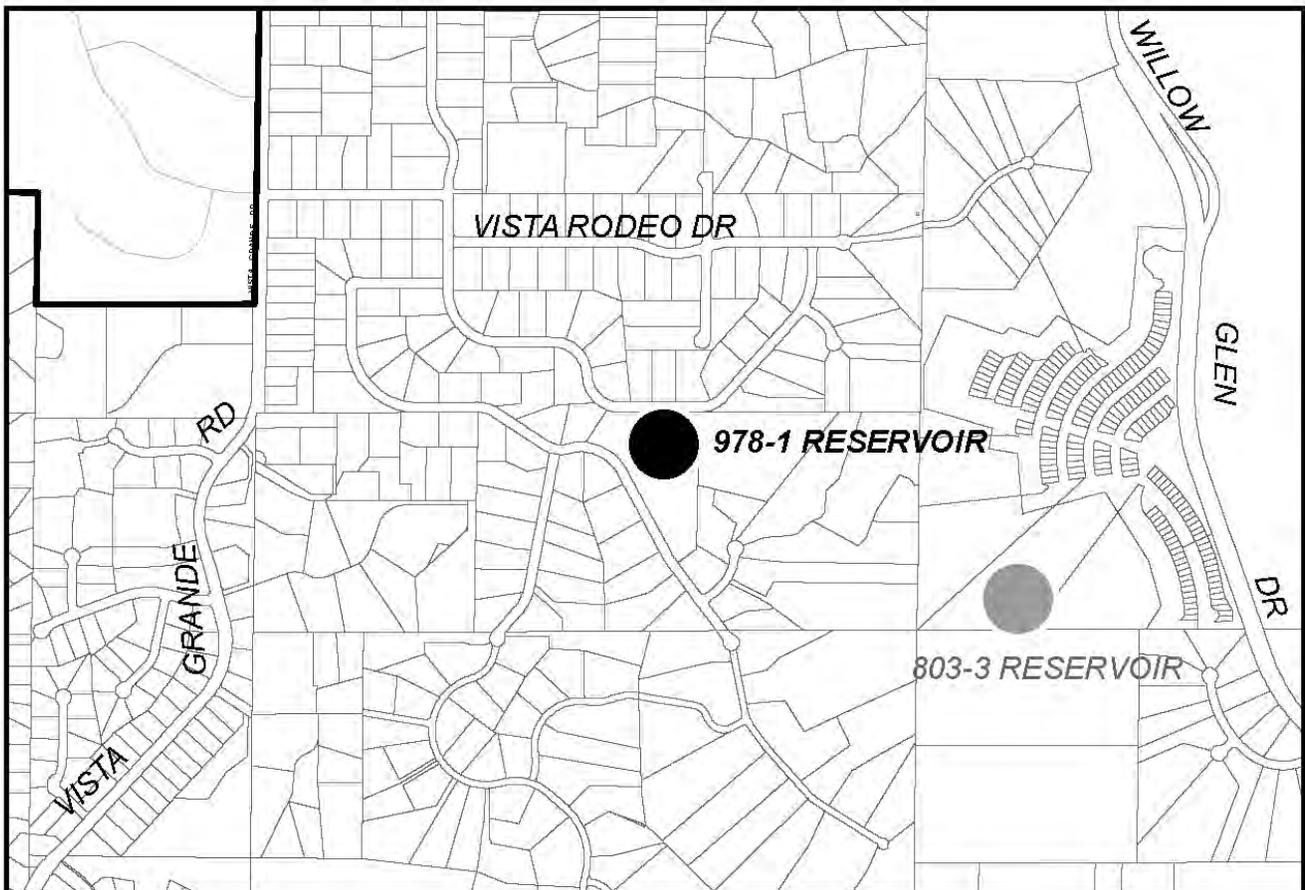
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	6/2/2016	7/29/2016	\$10
DESIGN:	8/1/2016	10/5/2016	\$60
CONSTRUCTION:	10/6/2016	6/28/2019	\$645

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 378**



**Submitted By:** Jolene Fielding

**Date:** 4/19/2016

**PROJECT TITLE:** 458-2 Reservoir Interior & Exterior Coating & Upgrades **CIP Number:** P2535

**DIRECTOR DIVISION:** 2

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:** 5/15/2012

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$885,000

**DESCRIPTION OF PROJECT:**

This project is for the interior and exterior coating of the 458-2 Reservoir. In addition, an assessment of the facility will be accomplished to assure compliance to all applicable codes and OSHA standards.

**JUSTIFICATION OF PROJECT:**

Based upon the 2011 Cathodic Assessment Report, the 458-2 Reservoir interior coating is in relatively poor condition and is in need of replacement. The exterior coating on the roof is failing and in need of replacement.

**COMMENTS:**

Budget increased from \$839K to \$885K to reflect actual construction costs.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$785	\$50	\$0	\$0	\$0	\$0	\$885

CIP Number: P2535

**PROJECT SCHEDULE:**

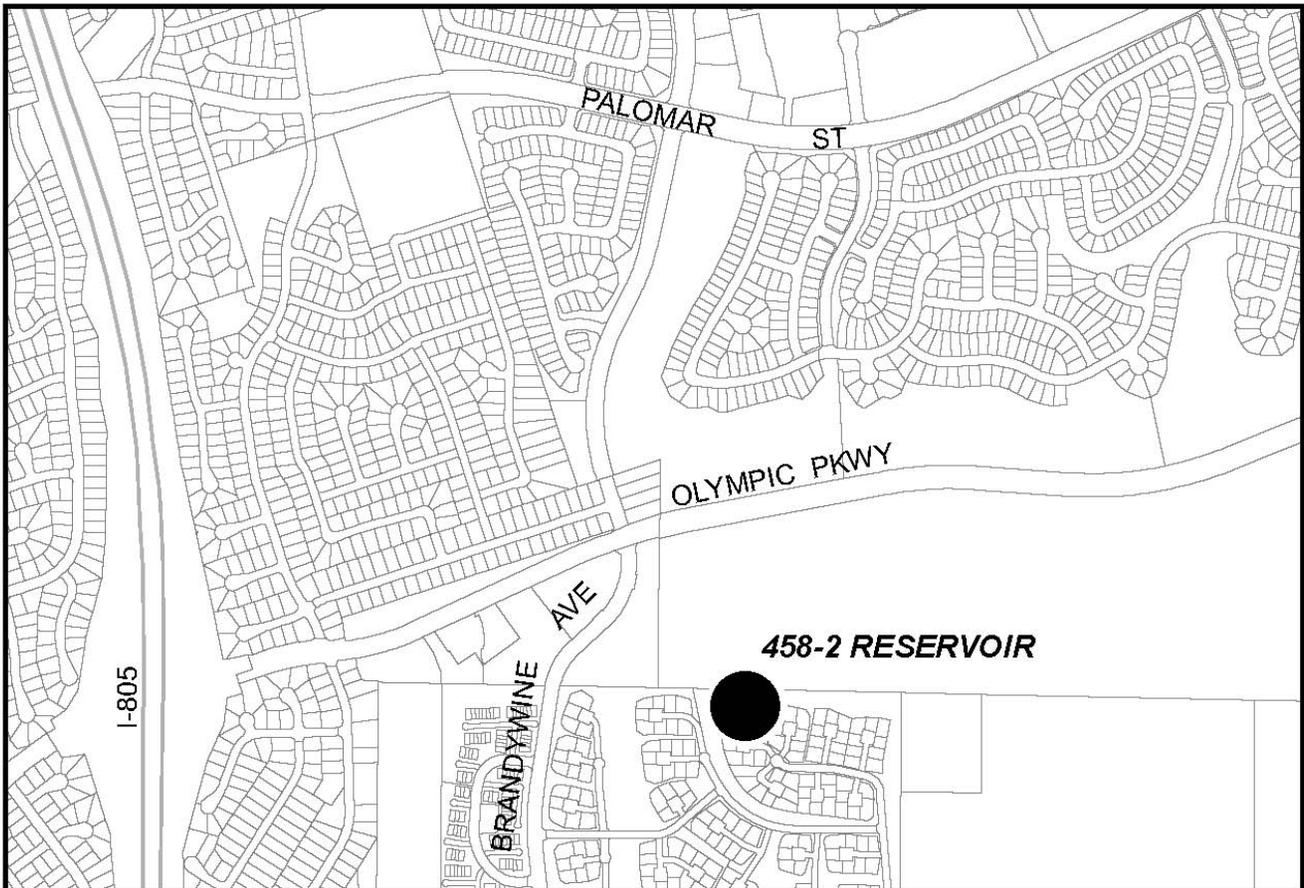
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	6/1/2013	9/30/2013	\$10
DESIGN:	10/1/2013	12/31/2014	\$65
CONSTRUCTION:	1/1/2015	6/29/2018	\$810

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 66**



**Submitted By:** Jolene Fielding

**Date:** 5/16/2016

**PROJECT TITLE:** Administration and Operations Building Fire Sprinkler Replacement Program

**CIP Number:** P2538

**PROJECT MANAGER:** Kevin Cameron

**DIRECTOR DIVISION:** 5

**ORIGINAL APPROVED DATE:**

**I.D. LOCATION:** 22

**RELATED CIP PROJECTS:**

**PRIORITY:** 1

**BUDGET AMOUNT:** \$110,000

**DESCRIPTION OF PROJECT:**

A licensed fire sprinkler designer is required to prepare plans and specifications for the work and obtain all permits and approvals before the project can be competitively bid by contractors.

**JUSTIFICATION OF PROJECT:**

Inspections of the Administration building and the Operations building fire sprinkler systems are performed to NFPA-25, California Code of Regulations, Title 19 and Local Fire Department requirements annually. A recent inspection of the fire sprinkler system has identified corrosion throughout the systems as the cause for leaks the District experienced last year and is recommending the replacement of the existing fire sprinkler systems piping.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$100	\$10	\$0	\$0	\$0	\$0	\$110

CIP Number: P2538

**PROJECT SCHEDULE:**

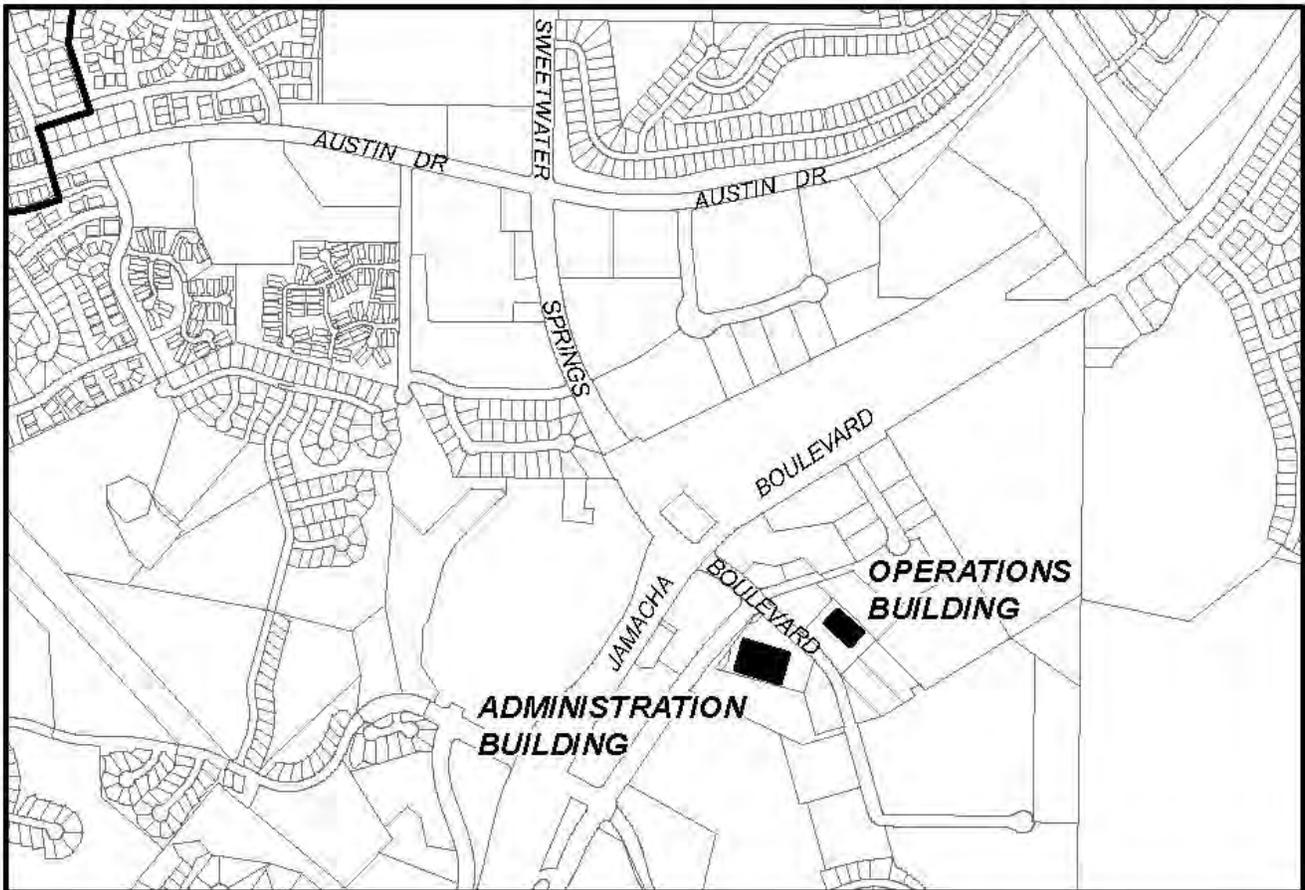
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	12/1/2012	7/1/2013	\$0
DESIGN:	7/1/2013	3/1/2014	\$40
CONSTRUCTION:	3/1/2014	6/30/2017	\$70

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 318**



**Submitted By:** Steve Beppler

**Date:** 3/25/2016

<b>PROJECT TITLE:</b> South Bay Bus Rapid Transit (BRT) Utility Relocations		<b>CIP Number:</b> P2539					
<b>PROJECT MANAGER:</b> Kevin Cameron		<b>DIRECTOR DIVISION:</b> 1		<b>I.D. LOCATION:</b> 22/27			
<b>ORIGINAL APPROVED DATE:</b>		<b>PRIORITY:</b> 1					
<b>RELATED CIP PROJECTS:</b>		<b>BUDGET AMOUNT:</b> \$1,090,000					
<b>DESCRIPTION OF PROJECT:</b>							
<p>This project is for all utility relocations required due to construction of South Bay BRT. Facility relocations vary in size and they impact both the potable and recycled water systems.</p>							
<b>JUSTIFICATION OF PROJECT:</b>							
<p>Project improvements will affect the locations of some OWD facilities in streets in Chula Vista. Engineering/staff time will be needed to review the design drawings and identify any OWD facilities which will need relocation or vertical adjustment. A construction budget is also needed for the work in relocating and adjusting these facilities.</p>							
<b>COMMENTS:</b>							
<p>Budget increased from \$940K to \$1.09M to reflect actual costs encountered to date and remaining work to be completed.</p>							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
Replacement	0 %	0 %	100 %	0 %	100 %		
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$850	\$100	\$40	\$0	\$0	\$0	\$1,090

CIP Number: P2539

**PROJECT SCHEDULE:**

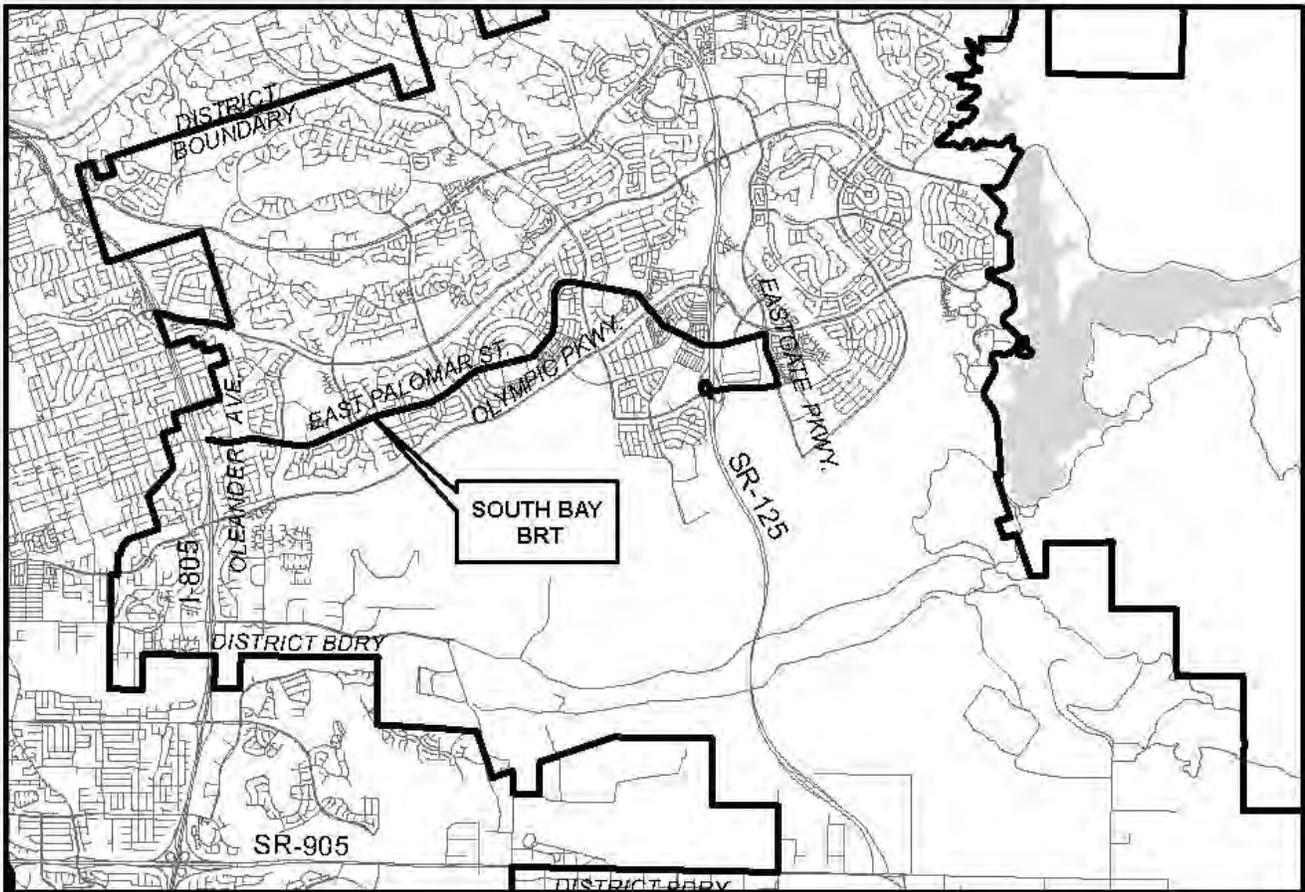
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2013	6/30/2014	\$40
DESIGN:	7/1/2014	4/30/2016	\$80
CONSTRUCTION:	5/1/2016	6/30/2019	\$970

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:** 80-82, 97-99, 113 &



**Submitted By:** Jolene Fielding

**Date:** 5/10/2016

**PROJECT TITLE:** 850-3 Reservoir Interior Coating

**CIP Number:** P2542

**DIRECTOR DIVISION:** 5

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$630,000

**DESCRIPTION OF PROJECT:**

This project is for the interior coating of the 850-3 Reservoir.

**JUSTIFICATION OF PROJECT:**

The interior coating is in poor condition and in need of replacement.

**COMMENTS:**

Budget increased from \$530K to \$630K to reflect actual bid costs and added structural repairs encountered during construction.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$530	\$50	\$0	\$0	\$0	\$0	\$630

CIP Number: P2542

**PROJECT SCHEDULE:**

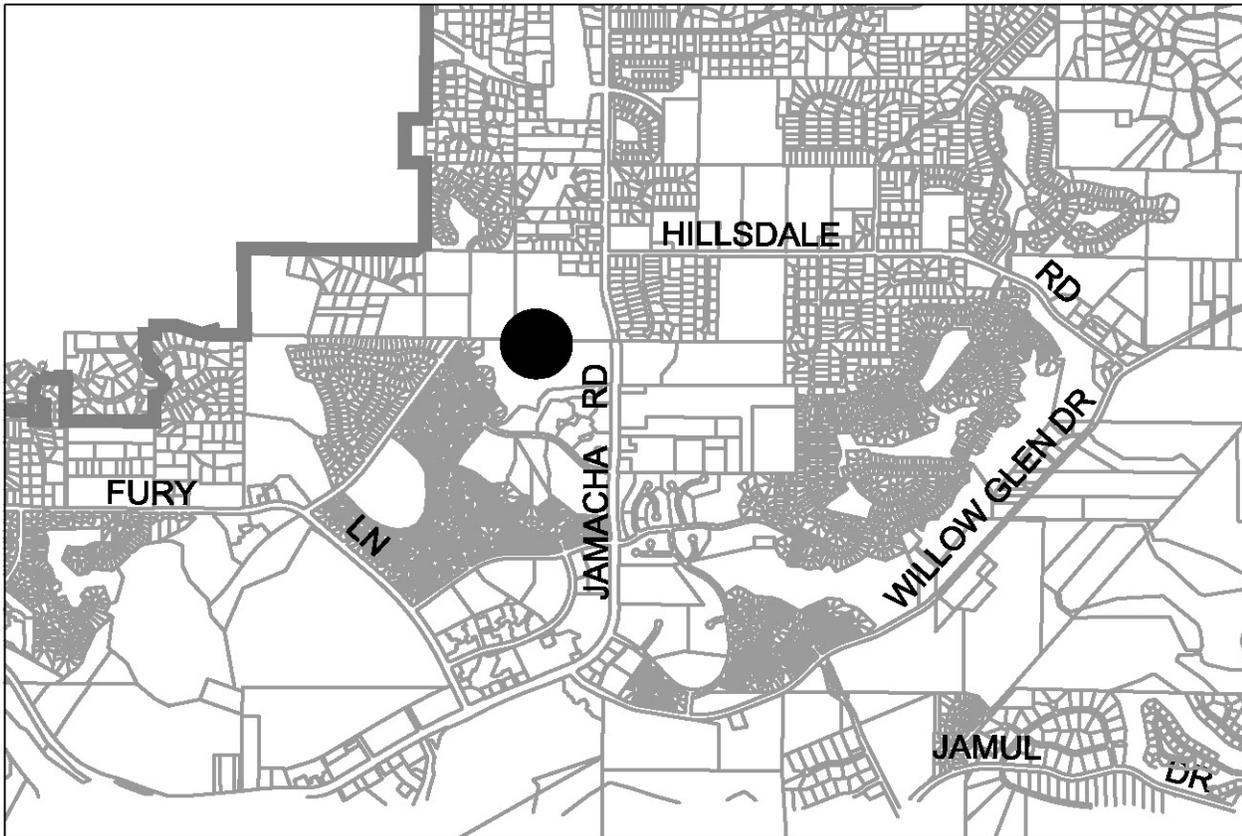
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	6/30/2013	7/31/2014	\$20
DESIGN:	8/1/2014	4/30/2015	\$60
CONSTRUCTION:	5/1/2015	12/29/2017	\$550

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 355**



**Submitted By:** Jolene Fielding

**Date:** 5/16/2016

**PROJECT TITLE:** 850-1 Reservoir Interior/Exterior Coating

**CIP Number:** P2543

**DIRECTOR DIVISION:** 3

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$875,000

**DESCRIPTION OF PROJECT:**

This project is for the interior and exterior coating of the 850-1 Reservoir. In addition, an assessment of the facility will be accomplished to assure compliance to all applicable codes and OSHA standards.

**JUSTIFICATION OF PROJECT:**

Based upon the current Cathodic Assessment Report, the interior and exterior coatings on the 850-1 Reservoir are nearing the end of their useful life and are in need of replacement.

**COMMENTS:**

Budget increased from \$575K to \$875K to reflect recent bid prices and anticipated structural repairs that have been encountered on many of the tanks recently recoated.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>							
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>	
	\$0	\$10	\$645	\$120	\$50	\$50	\$0	\$875

CIP Number: P2543

**PROJECT SCHEDULE:**

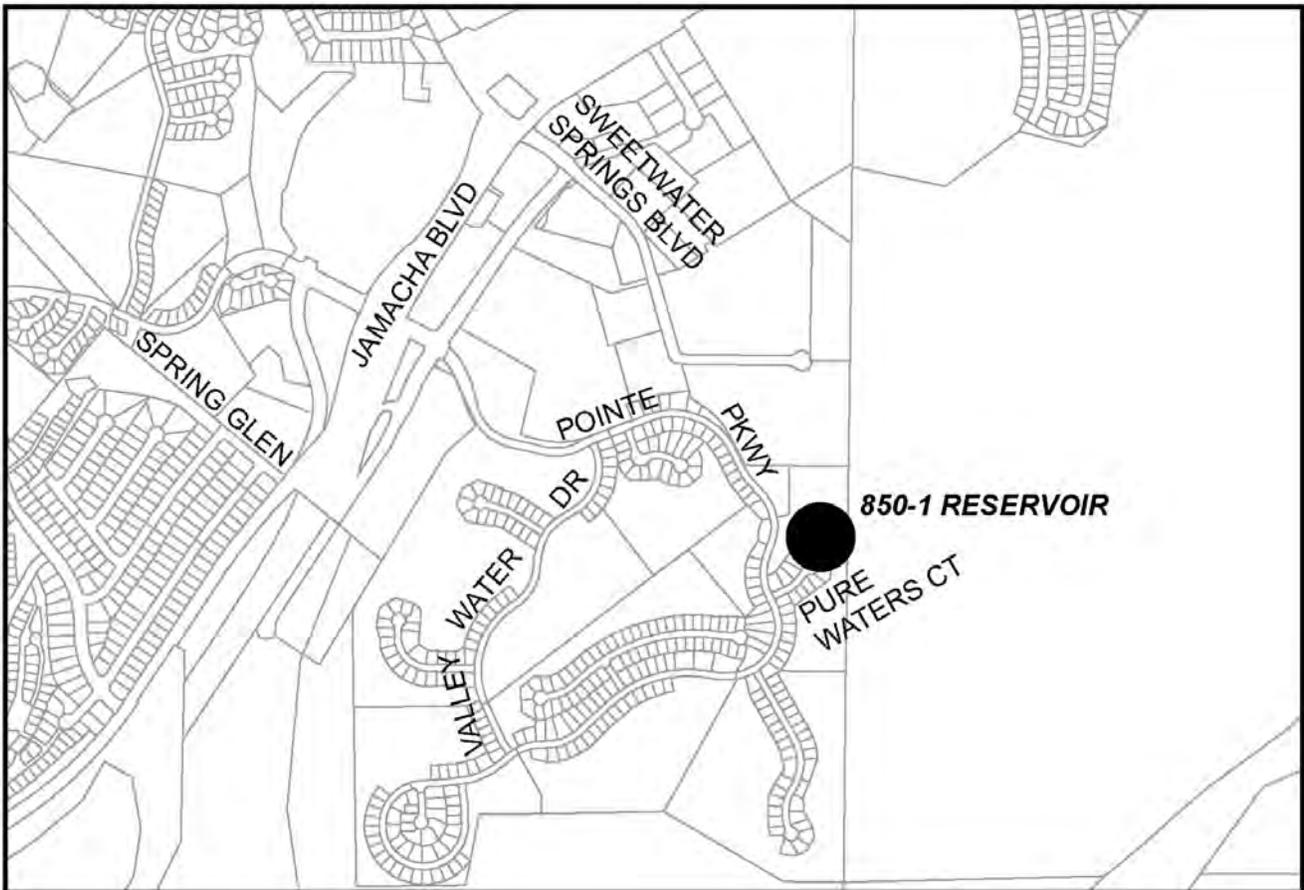
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	1/2/2017	7/28/2017	\$20
DESIGN:	7/31/2017	10/31/2017	\$65
CONSTRUCTION:	11/1/2017	12/31/2020	\$790

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 304**



**Submitted By:** Steve Beppler

**Date:** 4/21/2016

**PROJECT TITLE:** 850-2 Reservoir Interior/Exterior Coating

**CIP Number:** P2544

**DIRECTOR DIVISION:** 3

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$1,070,000

**DESCRIPTION OF PROJECT:**

This project is for the interior and exterior coating of the 850-2 Reservoir. In addition, an assessment of the facility will be accomplished to assure compliance to all applicable codes and OSHA standards.

**JUSTIFICATION OF PROJECT:**

Based upon the current Cathodic Assessment Report, the interior and exterior coatings on the 850-2 Reservoir are nearing the end of their useful life and are in need of replacement.

**COMMENTS:**

Budget increased from \$940K to \$1.07M to reflect recent bid prices and anticipated structural repairs encountered on many tanks recently recoated.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>							
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>	
	\$0	\$835	\$135	\$50	\$50	\$0	\$0	\$1,070

CIP Number: P2544

**PROJECT SCHEDULE:**

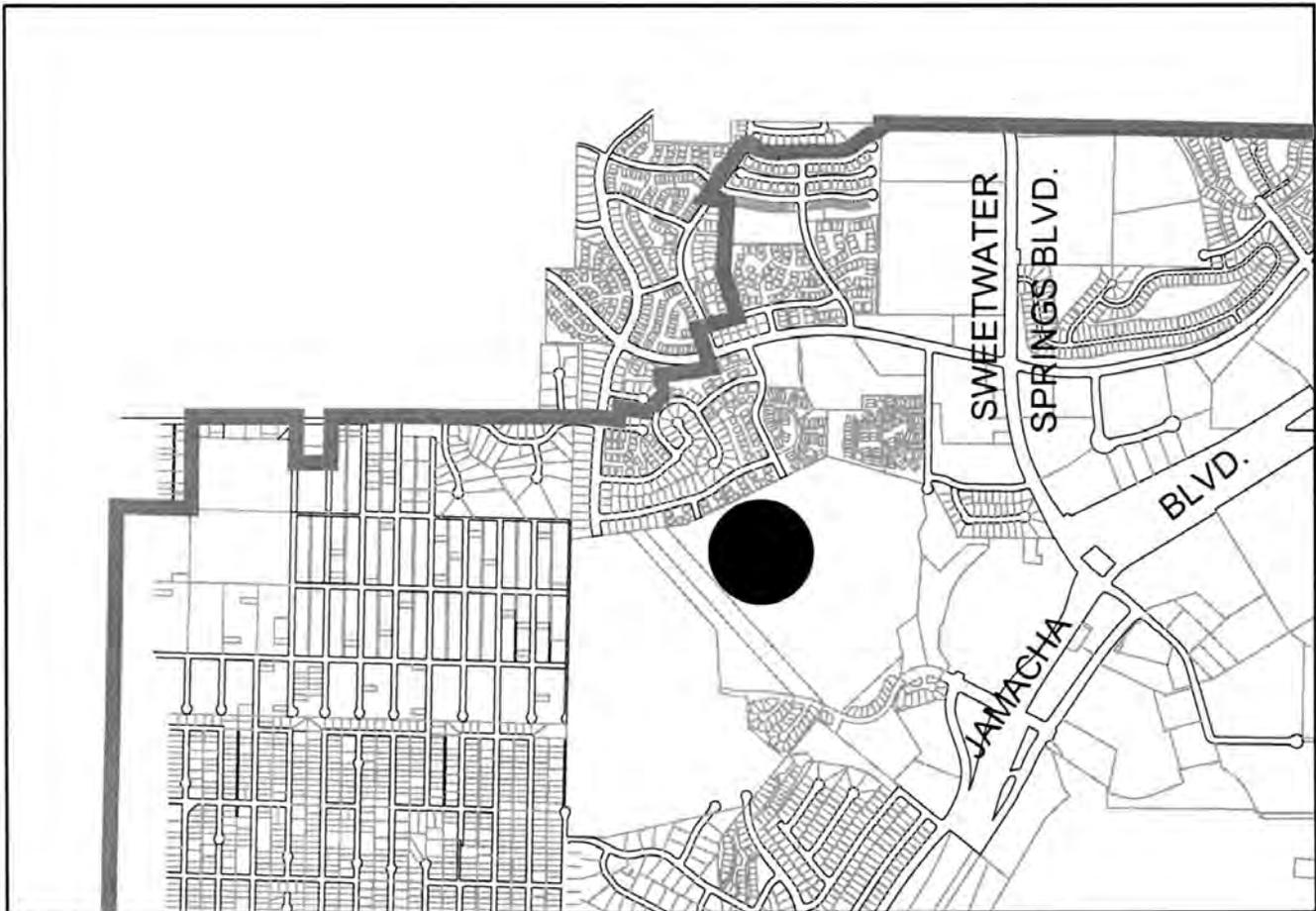
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	4/1/2016	7/29/2016	\$20
DESIGN:	8/1/2016	10/5/2016	\$65
CONSTRUCTION:	10/6/2016	12/31/2019	\$985

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 317**



**Submitted By:** Jolene Fielding

**Date:** 5/10/2016

**PROJECT TITLE:** 980-1 Reservoir Interior Exterior Coating

**CIP Number:** P2545

**DIRECTOR DIVISION:** 5

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:** P2546

**BUDGET AMOUNT:** \$1,495,000

**DESCRIPTION OF PROJECT:**

This project is for the interior and exterior coating of the 980-1 Reservoir. In addition, an assessment of the facility will be accomplished to assure compliance to all applicable codes and OSHA standards.

**JUSTIFICATION OF PROJECT:**

Based upon the 2013 Cathodic Assessment Report, the 980-1 Reservoir interior and exterior coatings are nearing the end of their useful life and are in need of replacement.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$1,065	\$330	\$50	\$50	\$0	\$0	\$1,495

CIP Number: P2545

PROJECT SCHEDULE:

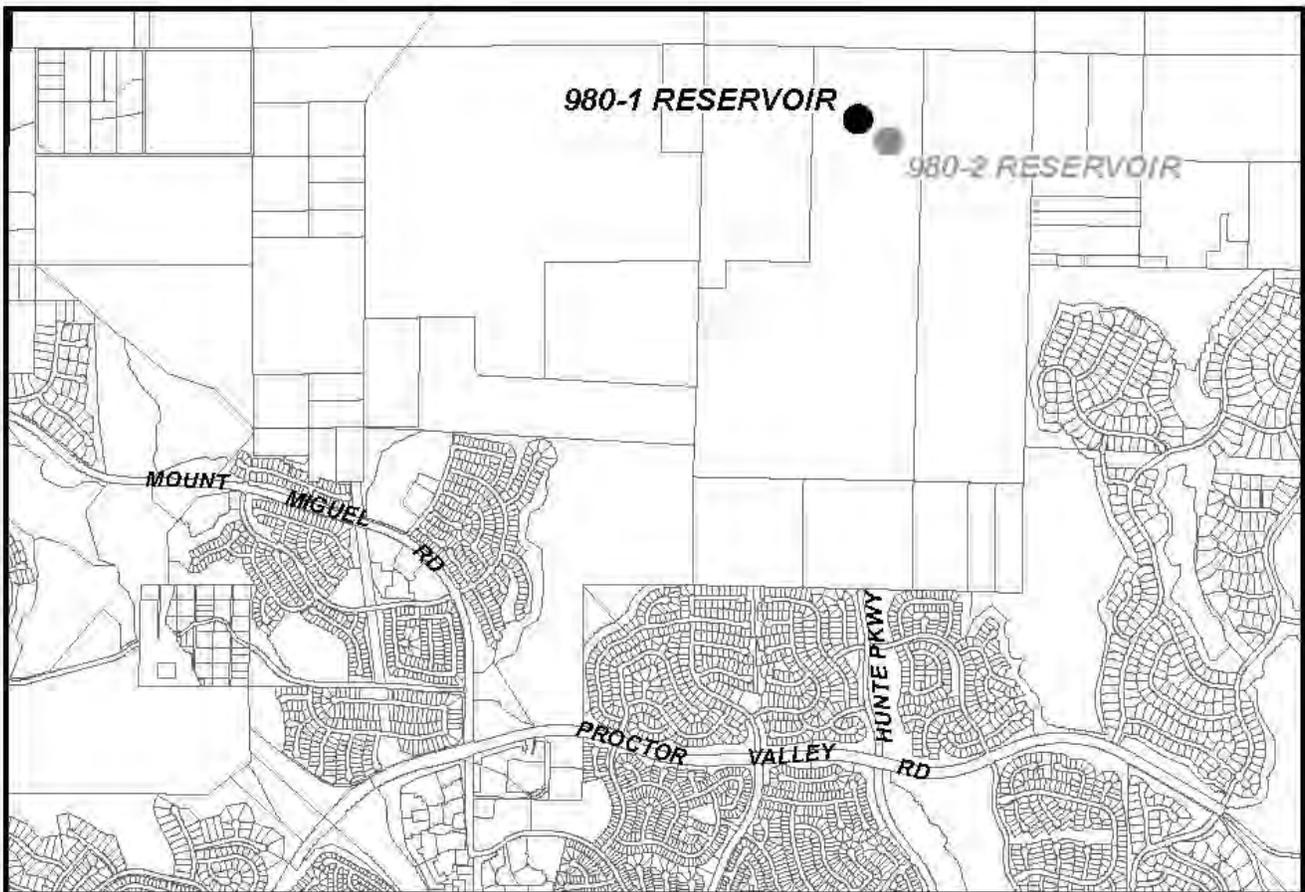
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	1/1/2015	6/30/2015	\$10
DESIGN:	7/1/2015	2/29/2016	\$85
CONSTRUCTION:	3/1/2016	12/31/2016	\$1,400

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 172



Submitted By: Jolene Fielding

Date: 5/10/2016

**PROJECT TITLE:** 980-2 Reservoir Interior/Exterior Coating

**CIP Number:** P2546

**DIRECTOR DIVISION:** 5

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:** P2545

**BUDGET AMOUNT:** \$1,450,000

**DESCRIPTION OF PROJECT:**

This project is for the interior and exterior coating of the 980-2 Reservoir. In addition, an assessment of the facility will be accomplished to assure compliance to all applicable codes and OSHA standards.

**JUSTIFICATION OF PROJECT:**

Based upon the current Cathodic Assessment Report, the interior and exterior coatings on the 980-2 Reservoir are nearing the end of their useful life and are in need of replacement.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>							
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>	
	\$0	\$0	\$20	\$1,330	\$50	\$50	\$0	\$1,450

CIP Number: P2546

**PROJECT SCHEDULE:**

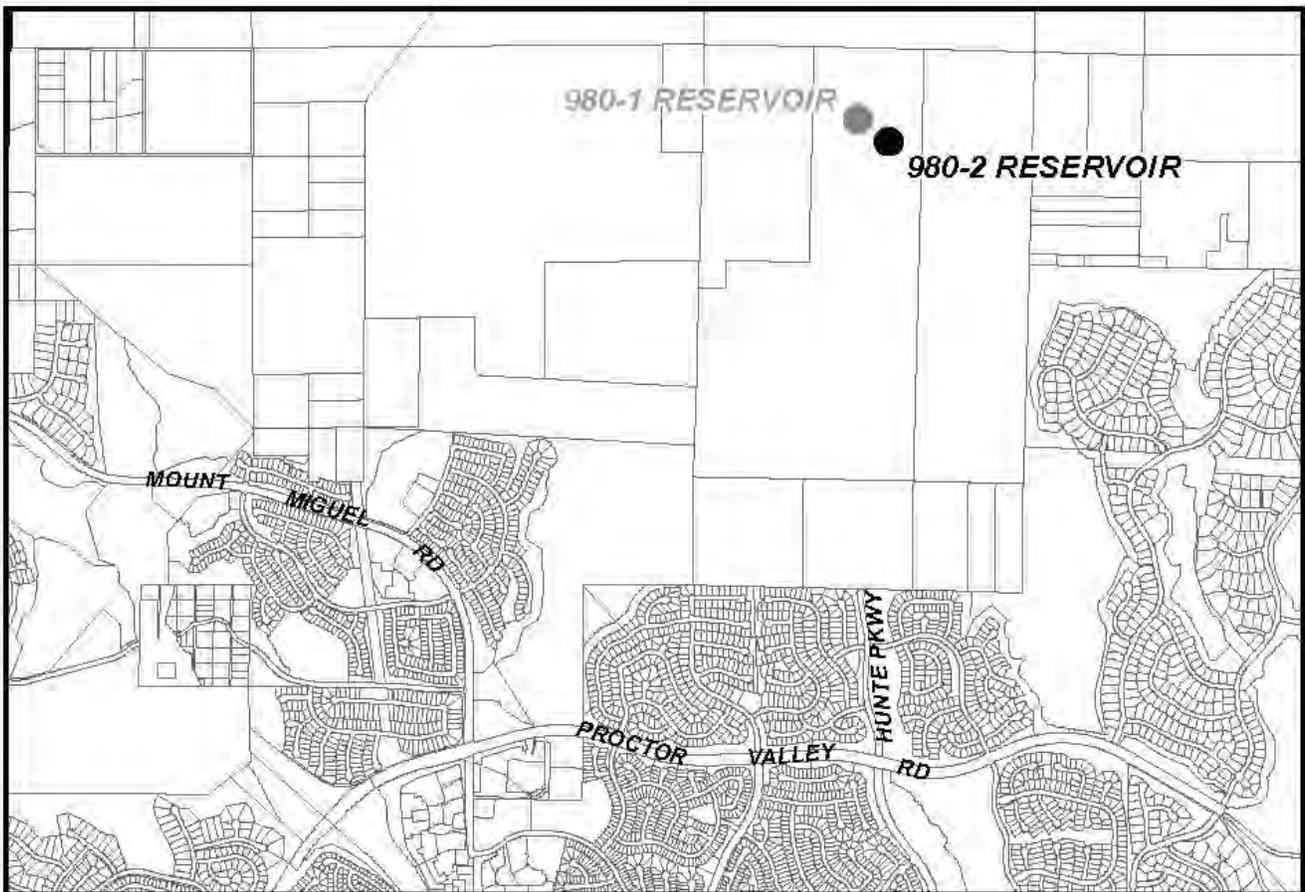
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	1/1/2018	6/30/2018	\$20
DESIGN:	7/1/2018	10/3/2018	\$60
CONSTRUCTION:	10/4/2018	6/30/2021	\$1,370

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 172**



**Submitted By:** Steve Beppler

**Date:** 4/21/2016

**PROJECT TITLE:** Administration and Operations Parking Lot Improvements

**CIP Number:** P2555

**DIRECTOR DIVISION:** 3

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$500,000

**DESCRIPTION OF PROJECT:**

This project is for AC pavement repairs, slurry seal, re-striping and update area lighting improvements to existing Administration and Operations parking lots.

**JUSTIFICATION OF PROJECT:**

Parking lot needs to be re-striped and AC pavement needs to be resealed. Area lighting will be updated to more energy efficient fixtures.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$40	\$275	\$185	\$0	\$0	\$0	\$500

CIP Number: P2555

**PROJECT SCHEDULE:**

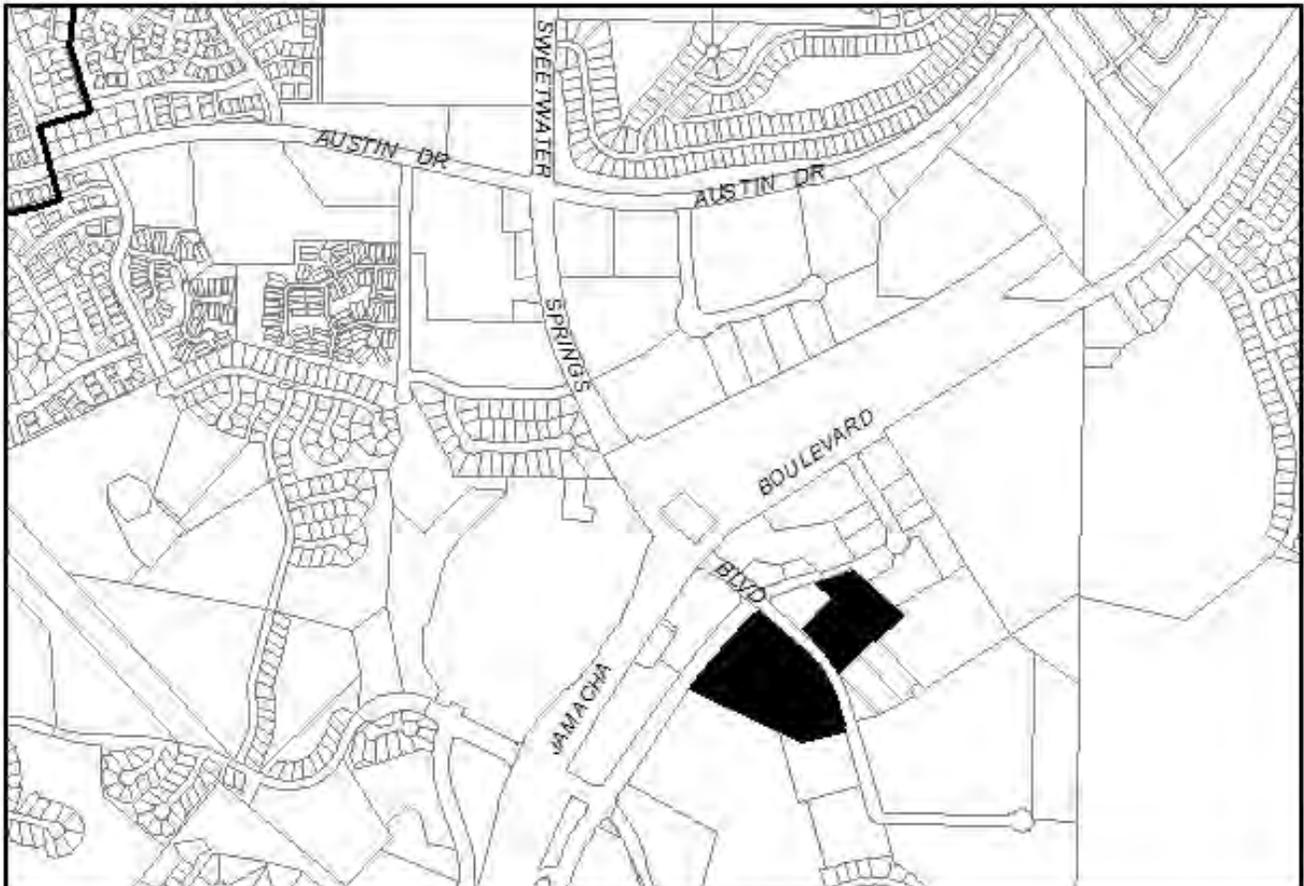
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2015	12/31/2015	\$20
DESIGN:	1/1/2016	12/31/2016	\$75
CONSTRUCTION:	1/1/2017	6/30/2018	\$405

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 318**



**Submitted By:** Jolene Fielding

**Date:** 5/10/2016

**PROJECT TITLE:** 520 Res Recirculation Pipeline Chemical Supply and Analyzer Feed Replacement Project

**CIP Number:** P2557

**PROJECT MANAGER:** Stephen Beppler

**DIRECTOR DIVISION:** 5

**ORIGINAL APPROVED DATE:**

**I.D. LOCATION:** 22

**RELATED CIP PROJECTS:**

**PRIORITY:** 1

**BUDGET AMOUNT:** \$100,000

**DESCRIPTION OF PROJECT:**

This project is for the existing chemical feed lines that are cast/black iron and need to be replaced with new dual wall CPVC chemical feed lines. Other miscellaneous improvements needed. Length approximately 150 feet.

**JUSTIFICATION OF PROJECT:**

The existing chemical feed lines for the 520 Reservoir are experiencing deterioration and not designed to current code for providing chemical containment.

**COMMENTS:**

Planning and start of design in FY 2016. Complete design and construction of replacement ammonia feed lines proposed in FY 2017.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$10	\$50	\$35	\$5	\$0	\$0	\$100

CIP Number: P2557

**PROJECT SCHEDULE:**

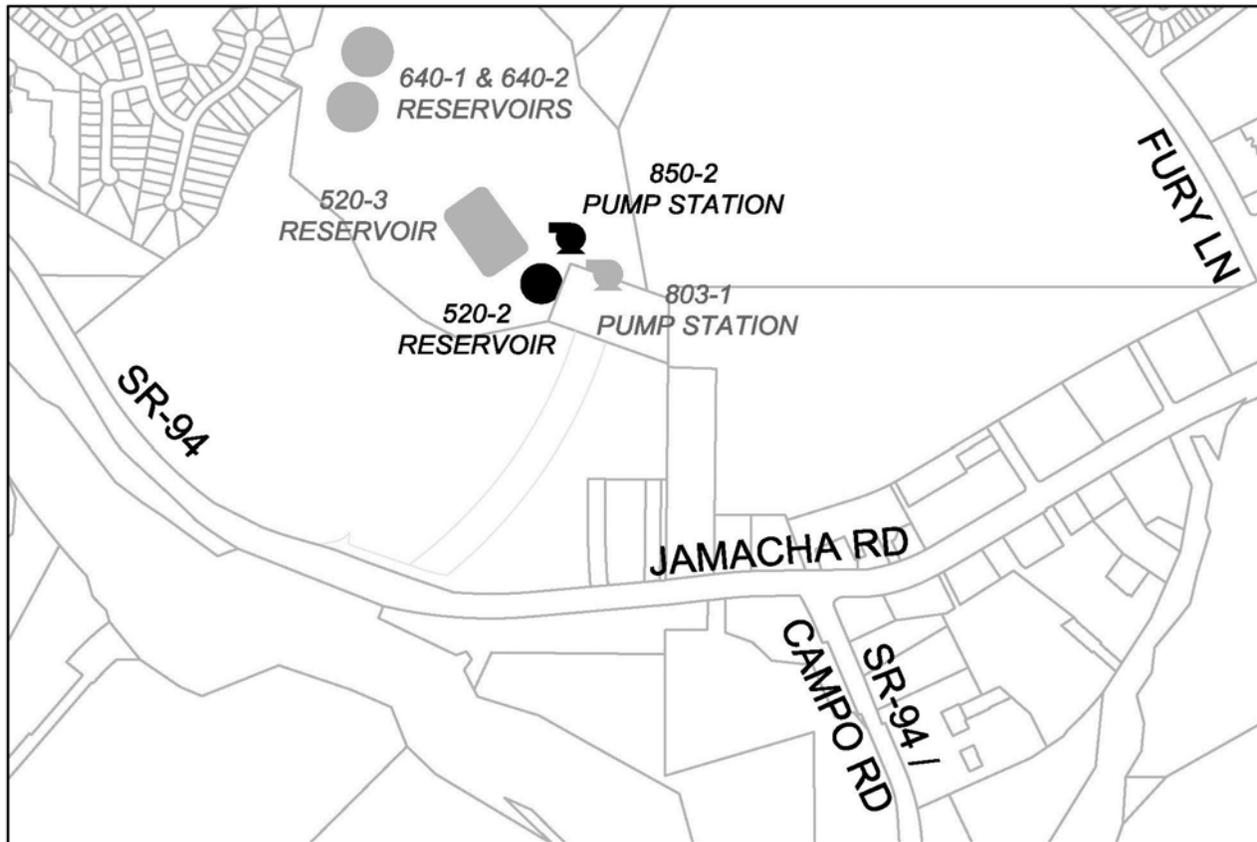
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2015	6/30/2016	\$5
DESIGN:	4/1/2016	12/30/2016	\$25
CONSTRUCTION:	1/2/2017	6/30/2019	\$70

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 343**



**Submitted By:** Jolene Fielding

**Date:** 5/10/2016

<b>PROJECT TITLE:</b> Pressure Vessel Repair and Replacement Program		<b>CIP Number:</b> P2559					
<b>PROJECT MANAGER:</b> Jeff Marchioro		<b>DIRECTOR DIVISION:</b>	0				
<b>ORIGINAL APPROVED DATE:</b>		<b>I.D. LOCATION:</b>	District Wide				
<b>RELATED CIP PROJECTS:</b>		<b>PRIORITY:</b>	2				
		<b>BUDGET AMOUNT:</b>	\$650,000				
<b>DESCRIPTION OF PROJECT:</b>							
<p>This project will repair, coat, and/or replace entirely the pressure vessel interiors and exteriors and appurtenances for the District's potable and recycled water distribution systems including (13) thirteen existing steel pressure vessels and five (5) hydropneumatic and eight (8) surge tanks of various ages. Pressure vessel interiors and exteriors and appurtenances will be repaired, coated, and/or replaced entirely. Permanent or portable stairs or ladders will be provided as well.</p>							
<b>JUSTIFICATION OF PROJECT:</b>							
<p>Pressure vessels are a key component of thirteen (13) existing District pump stations. Routine inspection by qualified professionals, and follow up repair and/or replacement, are needed to extend the life expectancy of each pressure vessel and associated pump station facility.</p>							
<b>COMMENTS:</b>							
<p>Increased overall CIP budget to account for total replacement of Vista Diego hydropneumatic tank and adding access to the pressure vessels.</p>							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
Replacement	0 %	0 %	100 %	0 %	100 %		
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
\$30	\$65	\$125	\$125	\$125	\$125	\$55	\$650

**CIP Number: P2559**

**PROJECT SCHEDULE:**

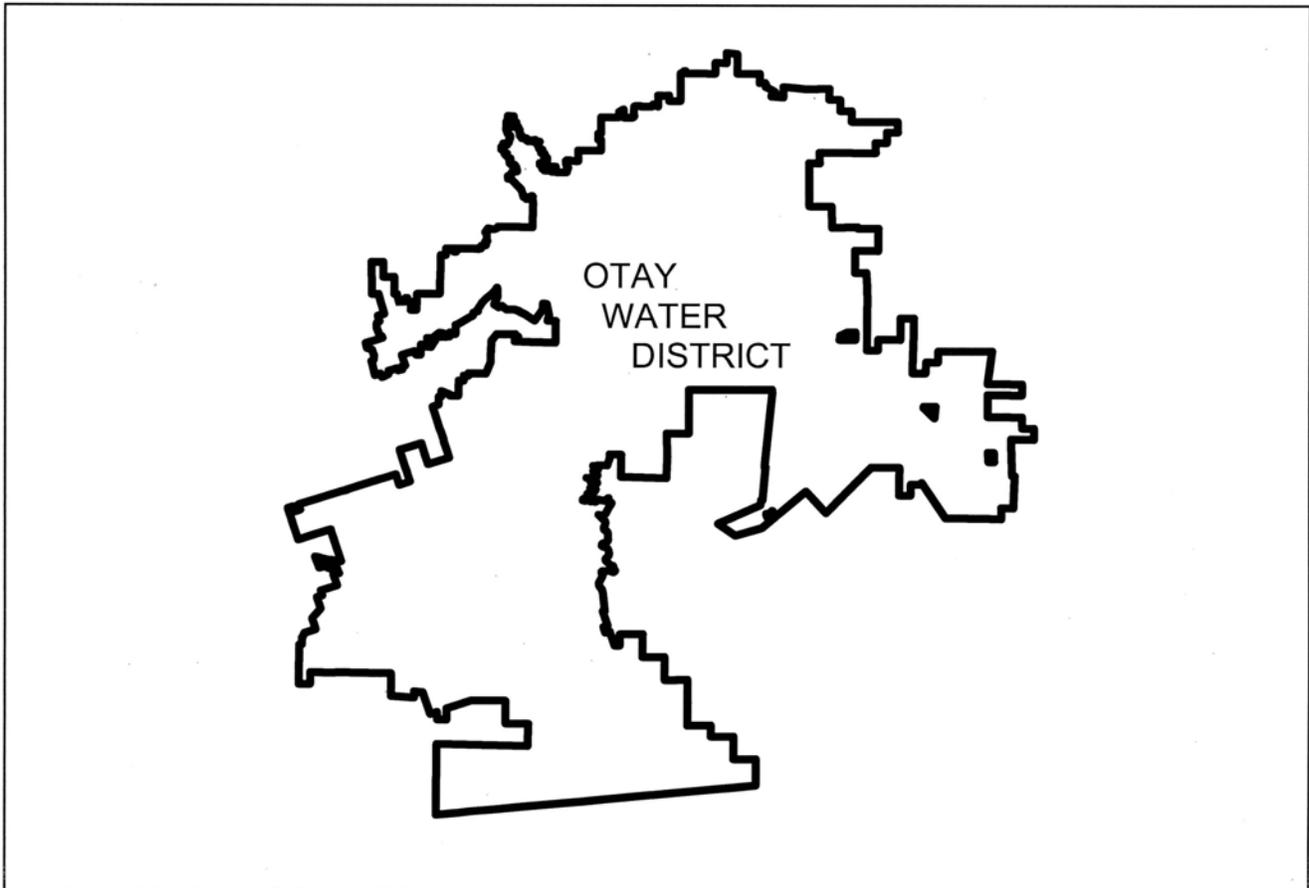
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>	7/1/2015	12/31/2016	\$10
<b>DESIGN:</b>	1/1/2016	12/31/2021	\$50
<b>CONSTRUCTION:</b>	3/1/2016	6/30/2022	\$590

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** OTAY\Jeff.Marchioro

**Date:** 5/10/2016

**PROJECT TITLE:** Res - 711-3 Reservoir Cover/Liner Replacement

**CIP Number:** P2561

**DIRECTOR DIVISION:** 5

**PROJECT MANAGER:** Jeff Marchioro

**I.D. LOCATION:** 22/27

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$1,800,000

**DESCRIPTION OF PROJECT:**

This project is for the replacement of the existing membrane floating cover and liner with new membrane system.

**JUSTIFICATION OF PROJECT:**

The existing membrane floating cover and liner have reached the end of their useful lives and require replacement to meet regulatory requirements.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$1	\$4	\$95	\$1,700	\$0	\$1,800

CIP Number: P2561

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2015	9/30/2018	\$10
DESIGN:	10/1/2018	6/30/2019	\$90
CONSTRUCTION:	7/1/2019	6/30/2020	\$1,700

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 159



Submitted By: OTAY\Jeff.Marchioro

Date: 4/21/2016

**PROJECT TITLE:** Res - 571-1 Reservoir Cover/Liner Replacement

**CIP Number:** P2562

**DIRECTOR DIVISION:** 2

**PROJECT MANAGER:** Jeff Marchioro

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$2,600,000

**DESCRIPTION OF PROJECT:**

This project is for the replacement of the existing membrane floating cover and liner with new membrane system.

**JUSTIFICATION OF PROJECT:**

The existing membrane floating cover and liner have reached the end of their useful lives and require replacement to meet regulatory requirements.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$90	\$2,500	\$5	\$5	\$0	\$2,600

CIP Number: P2562

PROJECT SCHEDULE:

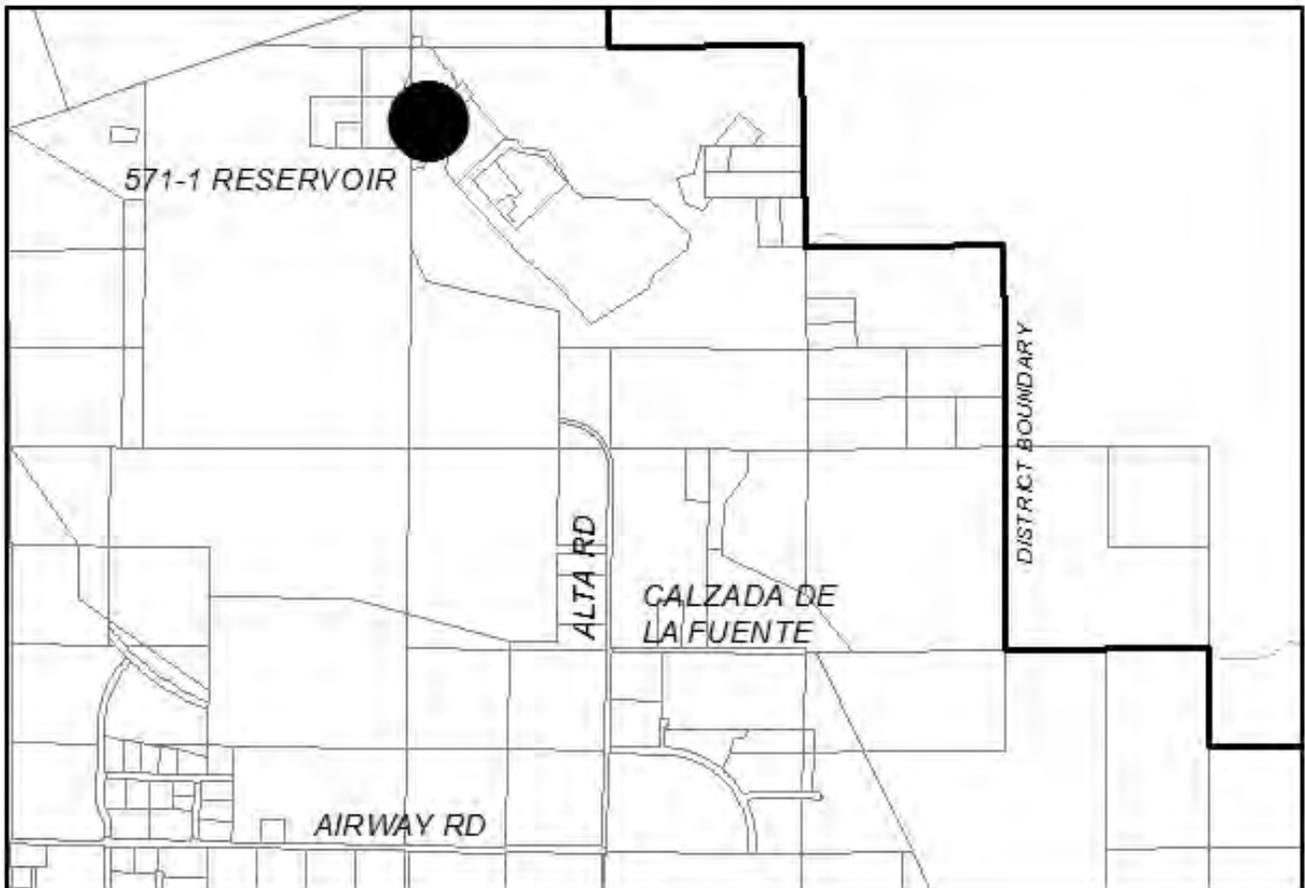
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2015	8/31/2016	\$10
DESIGN:	9/1/2016	7/31/2017	\$100
CONSTRUCTION:	8/1/2017	6/30/2020	\$2,490

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 55



Submitted By: OTAY\Jeff.Marchioro

Date: 4/21/2016

<b>PROJECT TITLE:</b> Res - 870-1 Reservoir Cover/Liner Replacement		<b>CIP Number:</b> P2563					
<b>PROJECT MANAGER:</b> Jeff Marchioro		<b>DIRECTOR DIVISION:</b>	2				
<b>ORIGINAL APPROVED DATE:</b>		<b>I.D. LOCATION:</b>	22				
<b>RELATED CIP PROJECTS:</b>		<b>PRIORITY:</b>	3				
		<b>BUDGET AMOUNT:</b>	\$1,000,000				
<b>DESCRIPTION OF PROJECT:</b>							
This project is for the replacement of the existing membrane floating cover and liner with a new membrane system.							
<b>JUSTIFICATION OF PROJECT:</b>							
The existing membrane floating cover and liner have reached the end of their useful lives and require replacement to meet regulatory requirements.							
<b>COMMENTS:</b>							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
Replacement	0 %	0 %	100 %	0 %	100 %		
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$1	\$9	\$90	\$899	\$0	\$1,000

CIP Number: P2563

PROJECT SCHEDULE:

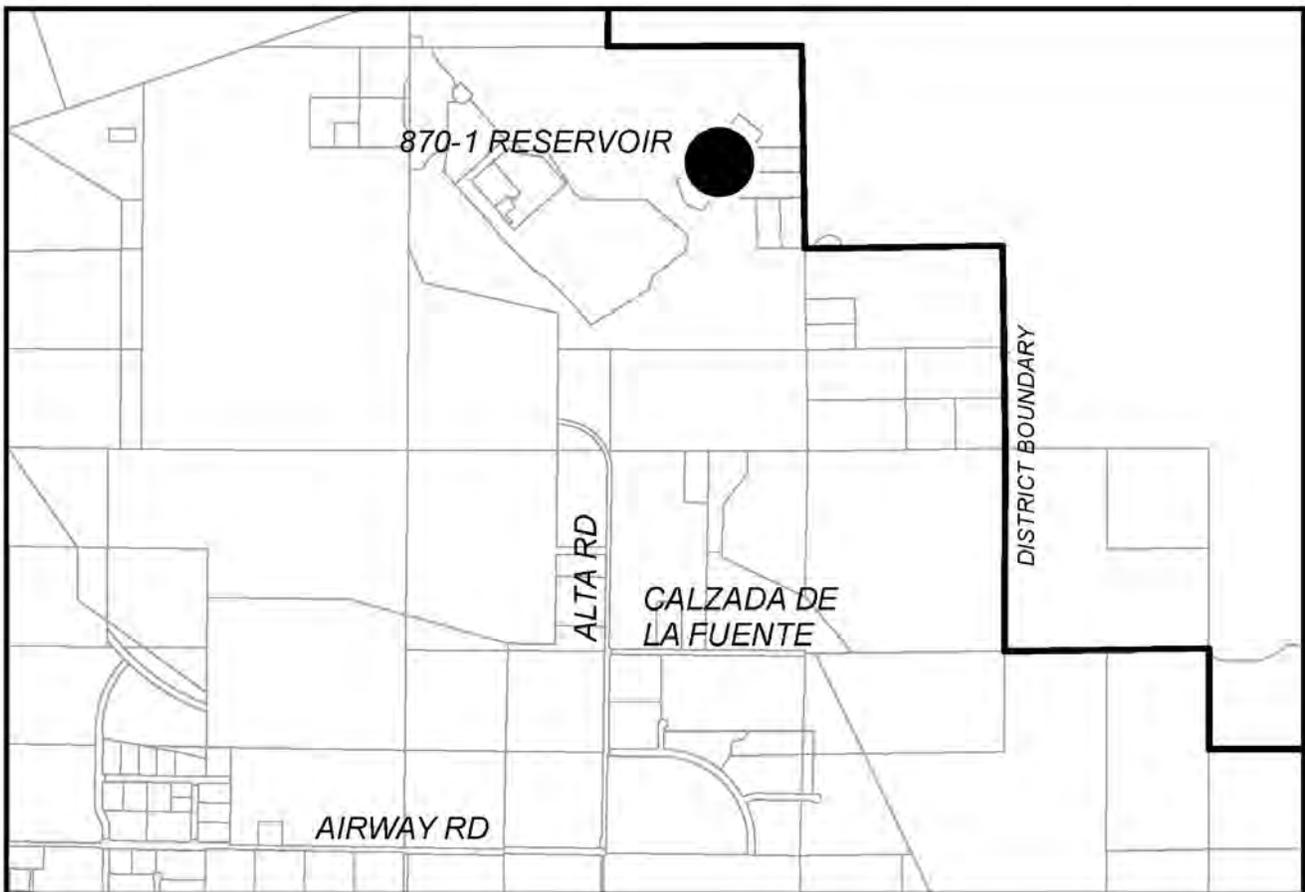
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2015	4/30/2019	\$10
DESIGN:	5/1/2019	9/30/2020	\$100
CONSTRUCTION:	10/1/2020	6/30/2021	\$890

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 55



Submitted By: OTAY\Jeff.Marchioro

Date: 4/21/2016

**PROJECT TITLE:** 803-2 Reservoir Interior/Exterior Coating & Upgrades

**CIP Number:** P2565

**DIRECTOR DIVISION:** 5

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$940,000

**DESCRIPTION OF PROJECT:**

This project is for the interior and exterior coating of the 803-2 Reservoir. In addition, an assessment of the facility will be accomplished to assure compliance to all applicable codes and OSHA standards.

**JUSTIFICATION OF PROJECT:**

Based upon the 2013 Cathodic Assessment Report, the 803-2 Reservoir interior and exterior coatings are near the end of their useful life and in need of replacement.

**COMMENTS:**

Budget increased from \$725K to \$940K to reflect recent bid prices and anticipated structural repairs that have been encountered on many of the tanks recently recoated.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$0	\$20	\$820	\$50	\$50	\$940

CIP Number: P2565

**PROJECT SCHEDULE:**

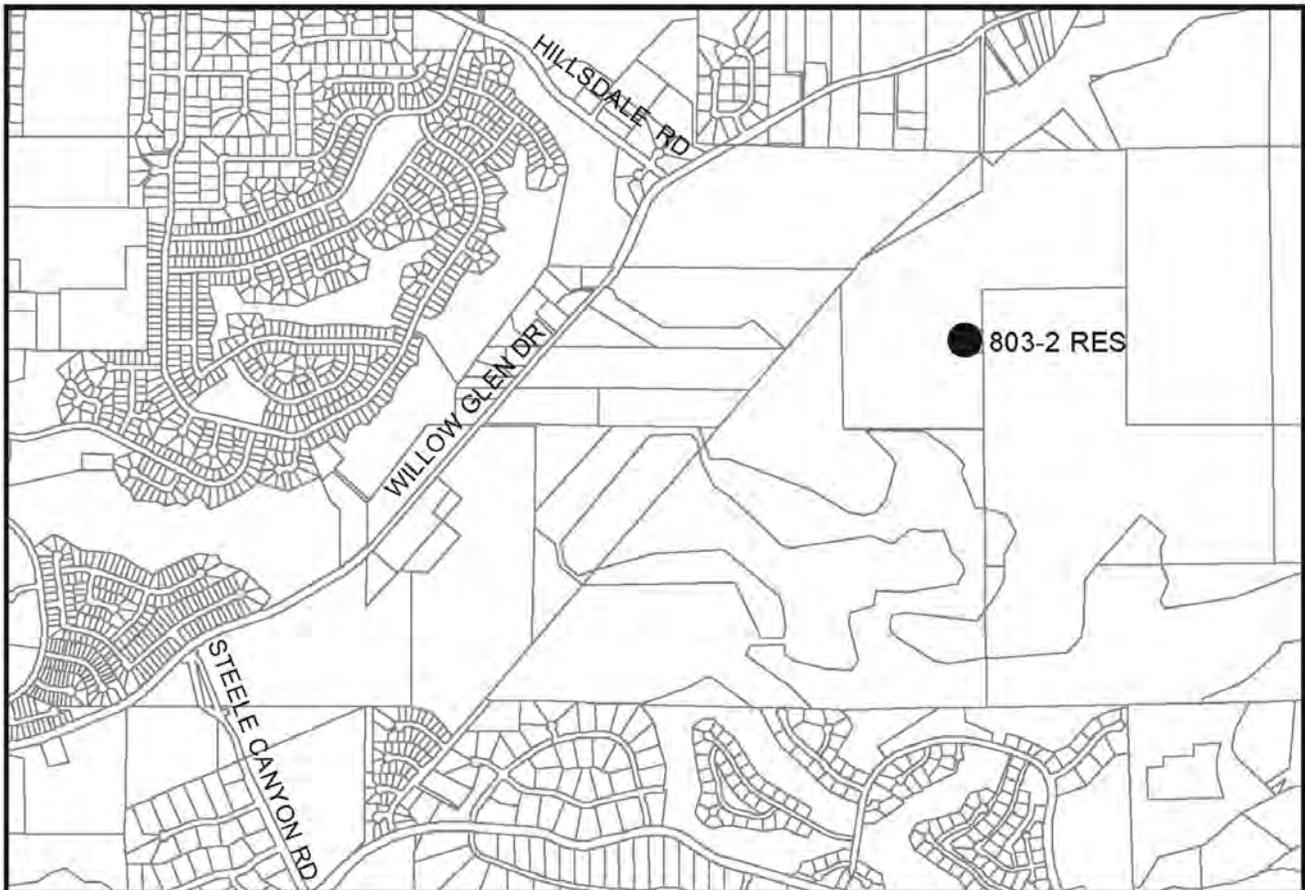
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	1/1/2019	6/30/2019	\$20
DESIGN:	7/1/2019	10/2/2019	\$70
CONSTRUCTION:	10/3/2019	6/30/2022	\$850

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:** 357



**Submitted By:** Steve Beppler

**Date:** 4/21/2016

**PROJECT TITLE:** 520-2 Reservoir Interior/Exterior Coating & Upgrades

**CIP Number:** P2566

**DIRECTOR DIVISION:** 5

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 3

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$1,500,000

**DESCRIPTION OF PROJECT:**

This project is for the interior and exterior coating of the 520-2 Reservoir. In addition, an assessment of the facility will be accomplished to assure compliance to all applicable codes and OSHA standards.

**JUSTIFICATION OF PROJECT:**

Based upon the 2013 Cathodic Assessment Report, the 520-2 Reservoir interior and exterior coatings are at the end of their useful life and in need of replacement.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$0	\$0	\$20	\$1,380	\$100	\$1,500

CIP Number: P2566

PROJECT SCHEDULE:

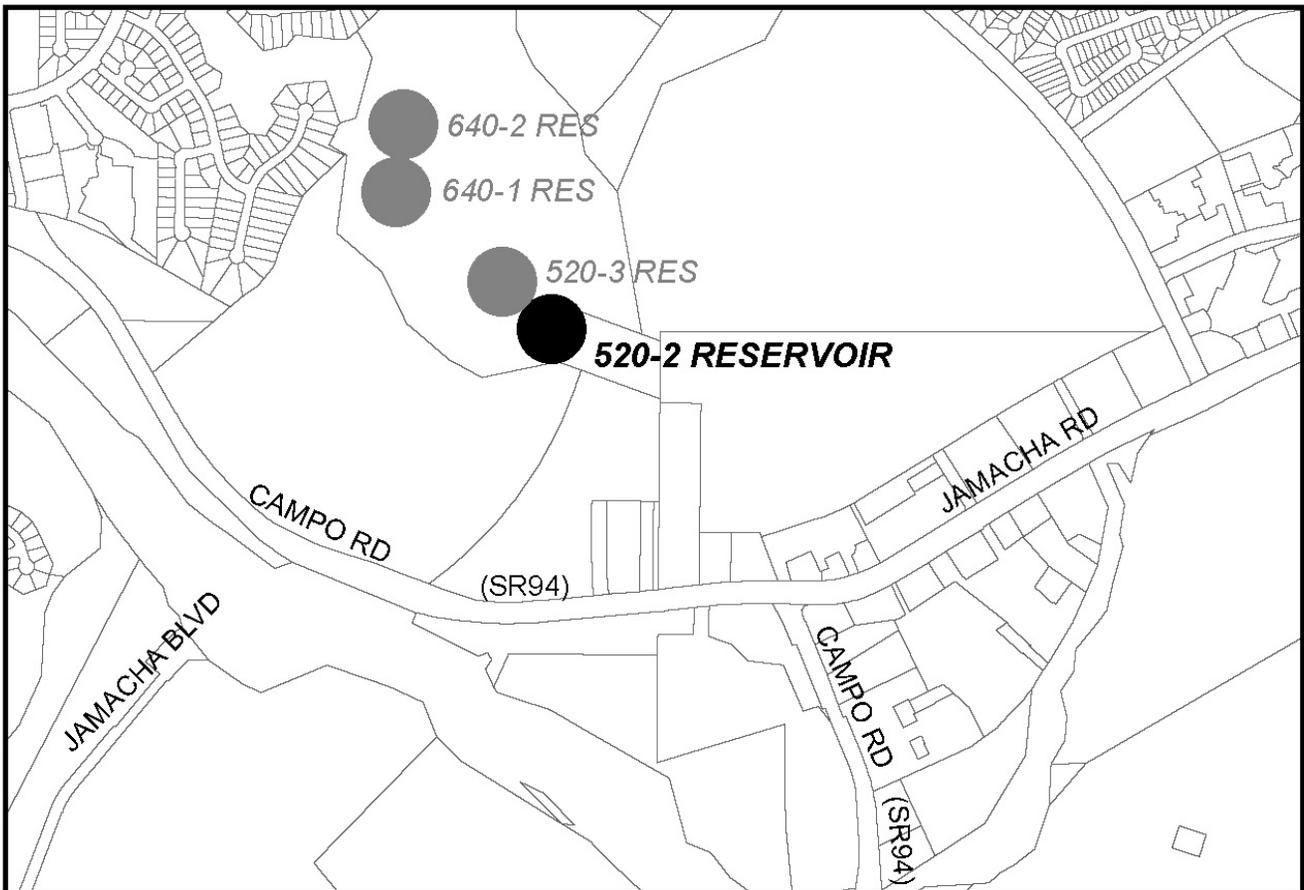
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	1/3/2020	6/30/2020	\$20
DESIGN:	7/1/2020	10/7/2020	\$70
CONSTRUCTION:	10/8/2020	6/30/2022	\$1,410

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 343



Submitted By: Steve Beppler

Date: 4/21/2016

**PROJECT TITLE:** 1004-2 Reservoir Interior/Exterior Coating & Upgrades

**CIP Number:** P2567

**DIRECTOR DIVISION:** 3

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 3

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$905,000

**DESCRIPTION OF PROJECT:**

This project is for the interior and exterior coating of the 1004-2 Reservoir. In addition, an assessment of the facility will be accomplished to assure compliance to all applicable codes and OSHA standards.

**JUSTIFICATION OF PROJECT:**

Based upon the 2013 Cathodic Assessment Report, the 1004-2 Reservoir interior and exterior coatings are at the end of their useful life and in need of replacement.

**COMMENTS:**

Budget increased from \$565K to \$905K to reflect recent bid prices and anticipated structural repairs that have been encountered on many of the tanks recently recoated.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$0	\$0	\$0	\$20	\$885	\$905

CIP Number: P2567

**PROJECT SCHEDULE:**

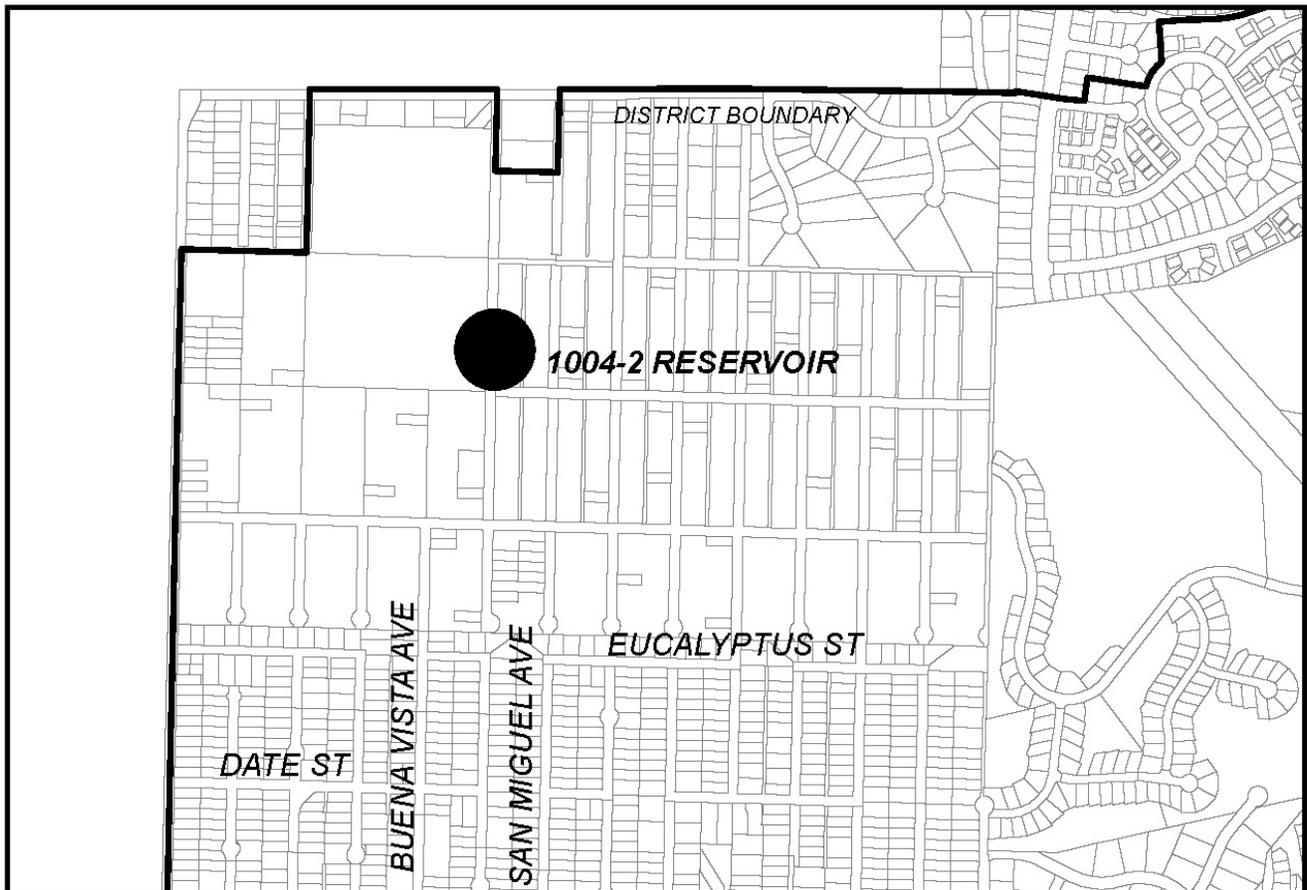
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	1/4/2021	6/30/2021	\$20
DESIGN:	7/1/2021	10/5/2021	\$60
CONSTRUCTION:	10/6/2021	6/30/2022	\$825

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 316**



**Submitted By:** Steve Beppler

**Date:** 4/21/2016

**PROJECT TITLE:** PL - 12-Inch Pipeline Replacement, 803 Zone, Hillsdale Road

**CIP Number:** P2573

**DIRECTOR DIVISION:** 5

**PROJECT MANAGER:** Jeff Marchioro

**I.D. LOCATION:**

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 1

**RELATED CIP PROJECTS:** P2573.B

**BUDGET AMOUNT:** \$1,750,000

**DESCRIPTION OF PROJECT:**

This project is for the replacement of approximately 4,000 feet of 12-inch potable water main within the 803 Pressure Zones in Hillsdale Road. The County has a CIP to re-pave Hillsdale Road after the pipeline replacement project is complete.

**JUSTIFICATION OF PROJECT:**

This project will replace thin wall, 1959 era, steel pipe of the originally constructed under as-built number 01-03. Two of the original four miles of thin wall steel pipe have been already replaced through separate CIP and developer projects. The remaining 2.1 miles of pipe has developed several water main breaks, including catastrophic failures due to semi-localized coating failures and severe corrosion of the thin wall steel can.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>							
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>	
	\$0	\$160	\$225	\$1,365	\$0	\$0	\$0	\$1,750

CIP Number: P2573

**PROJECT SCHEDULE:**

PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2016	10/15/2016	\$90
DESIGN:	10/1/2016	1/12/2018	\$160
CONSTRUCTION:	1/16/2018	3/1/2019	\$1,500

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 356**



**Submitted By:** OTAY\Jeff.Marchioro

**Date:** 5/10/2016

<b>PROJECT TITLE:</b> PL - 12-Inch and 14-inch Pipeline Replacement, 803 and 978 Zone, Vista Grande, Pence Drive		<b>CIP Number:</b> P2574						
<b>PROJECT MANAGER:</b> Jeff Marchioro		<b>DIRECTOR DIVISION:</b>	5					
<b>ORIGINAL APPROVED DATE:</b>		<b>I.D. LOCATION:</b>						
<b>RELATED CIP PROJECTS:</b> P2573		<b>PRIORITY:</b>	2					
		<b>BUDGET AMOUNT:</b>	\$2,750,000					
<b>DESCRIPTION OF PROJECT:</b>								
<p>This project is for the replacement of approximately 0.6 miles of 12-inch and 0.7 miles of 14-inch potable water main within the 803 and 978 Pressure Zones in Vista Grande Road, Pence Drive, Vista Vereda, and easements on private property.</p>								
<b>JUSTIFICATION OF PROJECT:</b>								
<p>This project will replace all remaining thin wall, 1959 era, steel pipe of the originally constructed under as-built number 01-03. Two of the original four miles of thin wall steel pipe have been already replaced through separate CIP and developer projects. The remaining 2.1 miles of pipe has developed several watermain breaks including catastrophic failures due to semi-localized coating failures and severe corrosion of the thin wall steel can.</p>								
<b>COMMENTS:</b>								
<b>FUND DETAILS:</b>								
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>			
Replacement	0 %	0 %	100 %	0 %	100 %			
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %			
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>								
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>	
	\$0	\$50	\$100	\$275	\$400	\$1,925	\$0	\$2,750

CIP Number: P2574

PROJECT SCHEDULE:

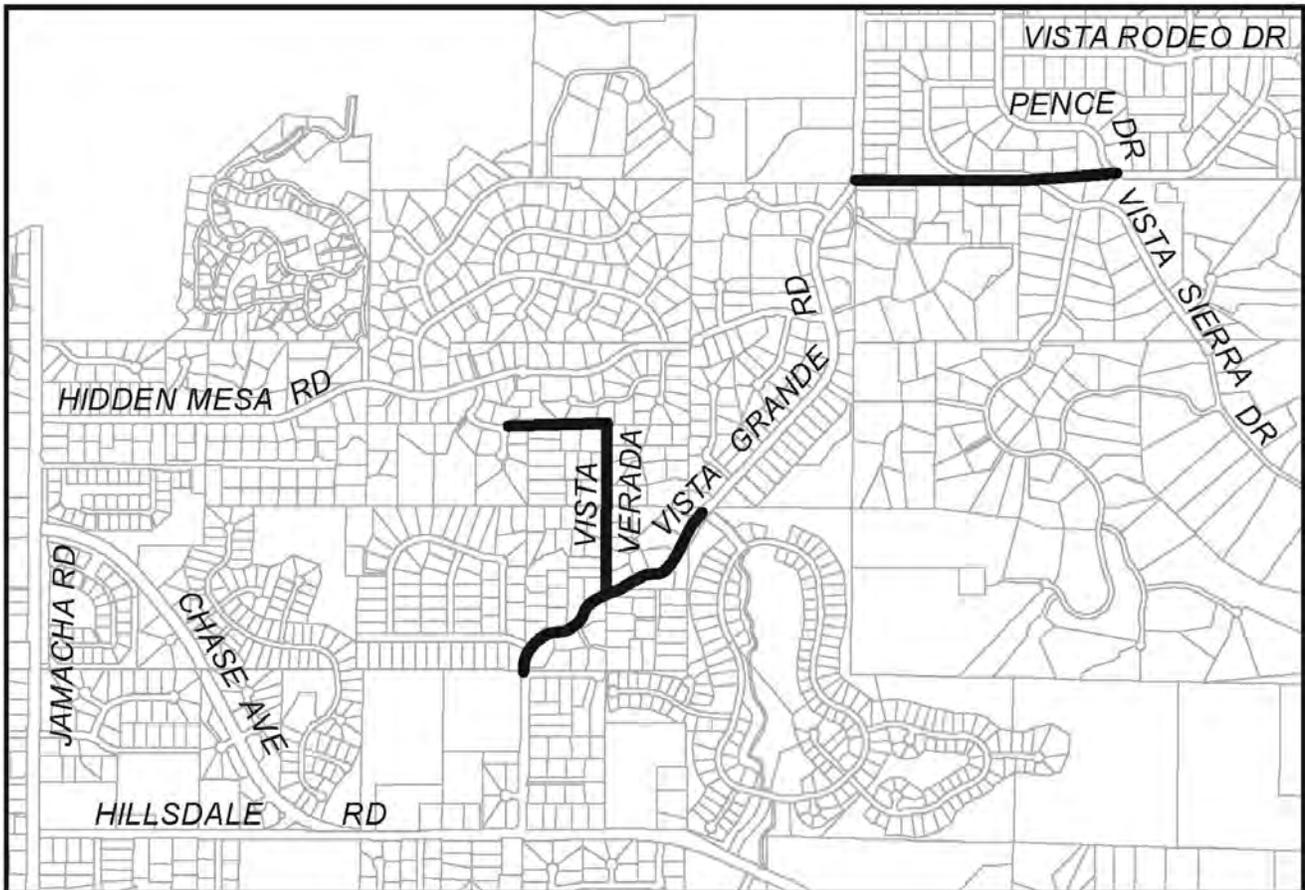
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2016	12/31/2018	\$250
DESIGN:	1/1/2019	12/31/2019	\$300
CONSTRUCTION:	1/1/2020	6/30/2021	\$2,200

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 368, 369, 378



Submitted By: OTAY\Jeff.Marchioro

Date: 4/19/2016

<b>PROJECT TITLE:</b> PS - 711-2 (PS 711-1 Replacement and Expansion) - 14,000 gpm		<b>CIP Number:</b> P2578					
<b>PROJECT MANAGER:</b> Jeff Marchioro		<b>DIRECTOR DIVISION:</b>	1				
<b>ORIGINAL APPROVED DATE:</b>		<b>I.D. LOCATION:</b>					
<b>RELATED CIP PROJECTS:</b> P2473		<b>PRIORITY:</b>	2				
		<b>BUDGET AMOUNT:</b>	\$6,600,000				
<b>DESCRIPTION OF PROJECT:</b>							
This project is for the construction of a new Pump Station to replace the existing Pump Station.							
<b>JUSTIFICATION OF PROJECT:</b>							
The existing Pump Station was de-rated in 2010 to resolve vibration and cavitation issues.							
<b>COMMENTS:</b>							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
Replacement	0 %	0 %	60 %	0 %	60 %		
Betterment ID 22	0 %	40 %	0 %	0 %	40 %		
<b>TOTAL:</b>	0 %	40 %	60 %	0 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$0	\$0	\$350	\$3,200	\$3,050	\$6,600

CIP Number: P2578

PROJECT SCHEDULE:

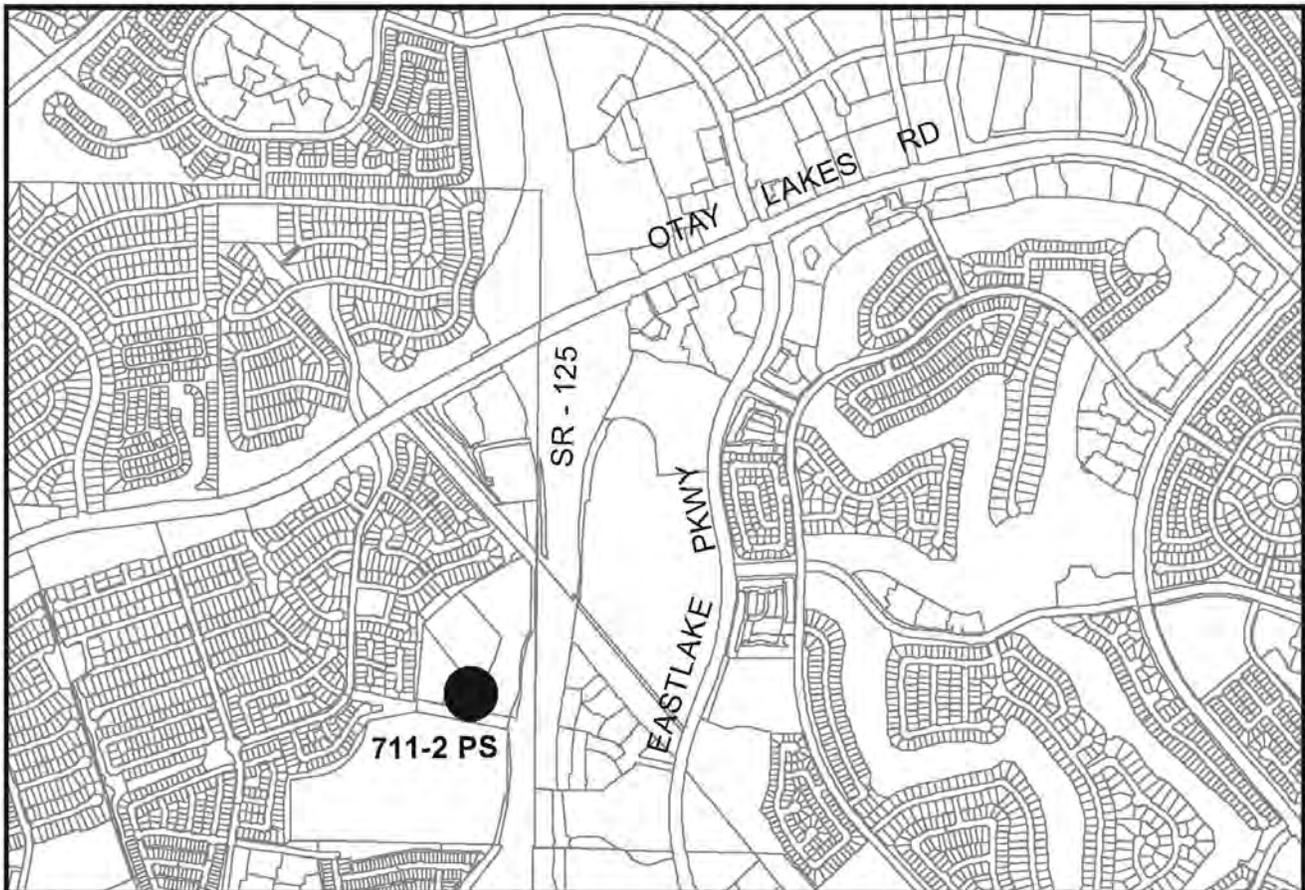
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2019	9/30/2019	\$50
DESIGN:	10/1/2019	9/30/2020	\$550
CONSTRUCTION:	10/1/2020	6/30/2022	\$6,000

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 114



Submitted By: Steve Beppler

Date: 4/21/2016

**PROJECT TITLE:** Temporary Lower Otay Pump Station Improvements

**CIP Number:** P2579

**PROJECT MANAGER:** Stephen Beppler

**DIRECTOR DIVISION:** 1

**ORIGINAL APPROVED DATE:**

**I.D. LOCATION:** 7

**RELATED CIP PROJECTS:** P2258

**PRIORITY:** 1

**BUDGET AMOUNT:** \$140,000

**DESCRIPTION OF PROJECT:**

This project is for the replacement of a 30-inch flow meter and adjoining piping due to internal deterioration as well as the addition of a security system as this installation is not currently so equipped.

**JUSTIFICATION OF PROJECT:**

Meter and pipe are in need of replacement and the station does not have a security system.

**COMMENTS:**

Station is typically used during the annual CWA aqueduct shutdown in spring. Replacement should be completed by Spring 2017.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$140	\$0	\$0	\$0	\$0	\$140

CIP Number: P2579

PROJECT SCHEDULE:

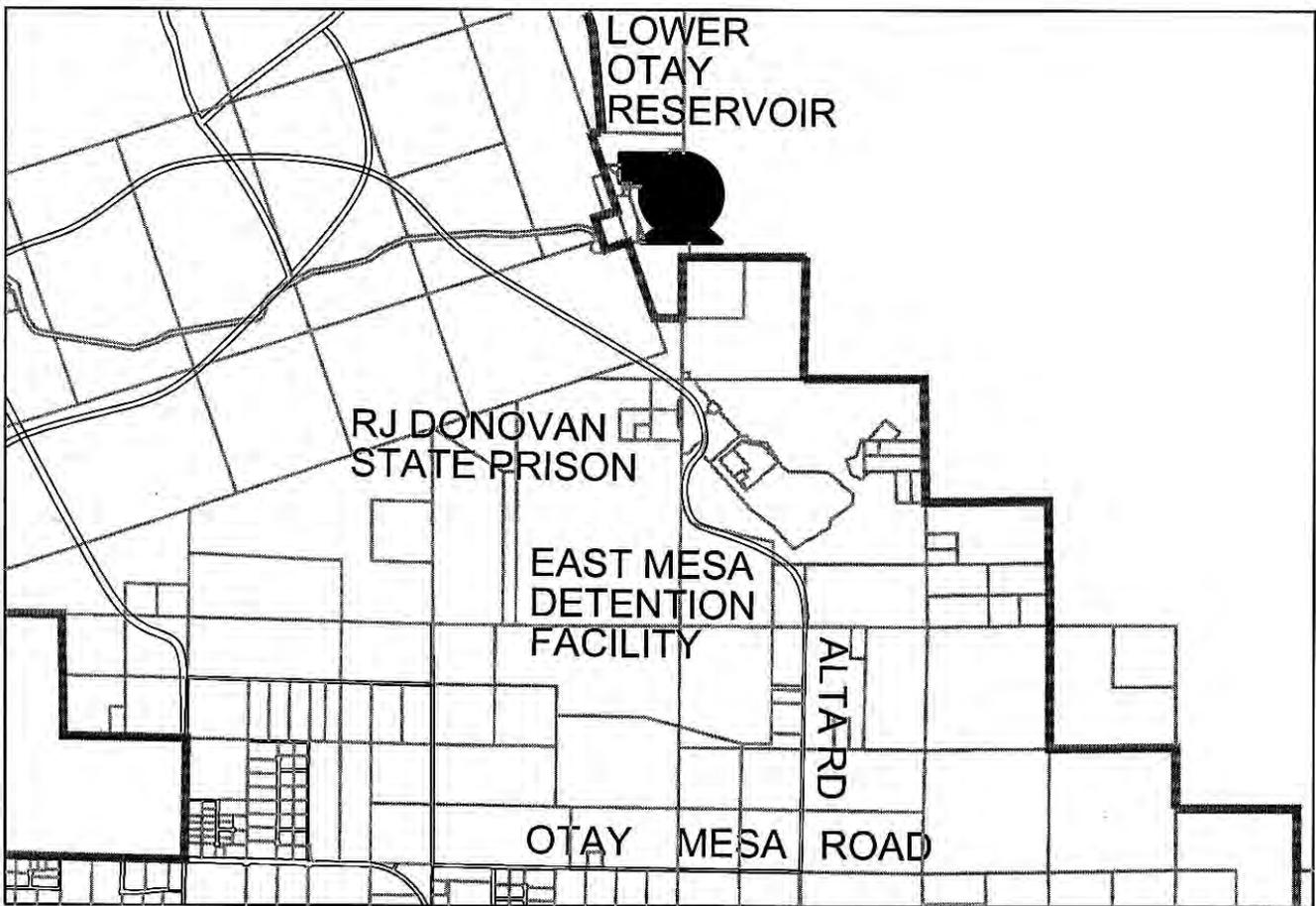
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:			\$0
DESIGN:	7/1/2016	10/31/2016	\$25
CONSTRUCTION:	11/1/2016	6/30/2017	\$115

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 70



Submitted By: Jolene Fielding

Date: 4/19/2016

**PROJECT TITLE:** East H Street Bike Lane Utility Coordination

**CIP Number:** P2592

**DIRECTOR DIVISION:** 255

**PROJECT MANAGER:** Stephen Beppler

**I.D. LOCATION:**

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 1

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$50,000

**DESCRIPTION OF PROJECT:**

This project is for the relocation of conflicting District facilities. The City of Chula Vista is constructing a bike lane along East H Street from Buena Vista Way to the Southwestern College entrance.

**JUSTIFICATION OF PROJECT:**

District facilities are located within the City of Chula Vista right-of-way, requiring the District to move them as needed with improvements.

**COMMENTS:**

The City of Chula Vista has indicated construction will run from May 2016 to November 2016, with most of the District work needing to be completed before August 2016.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$50	\$0	\$0	\$0	\$0	\$50

CIP Number: P2592

**PROJECT SCHEDULE:**

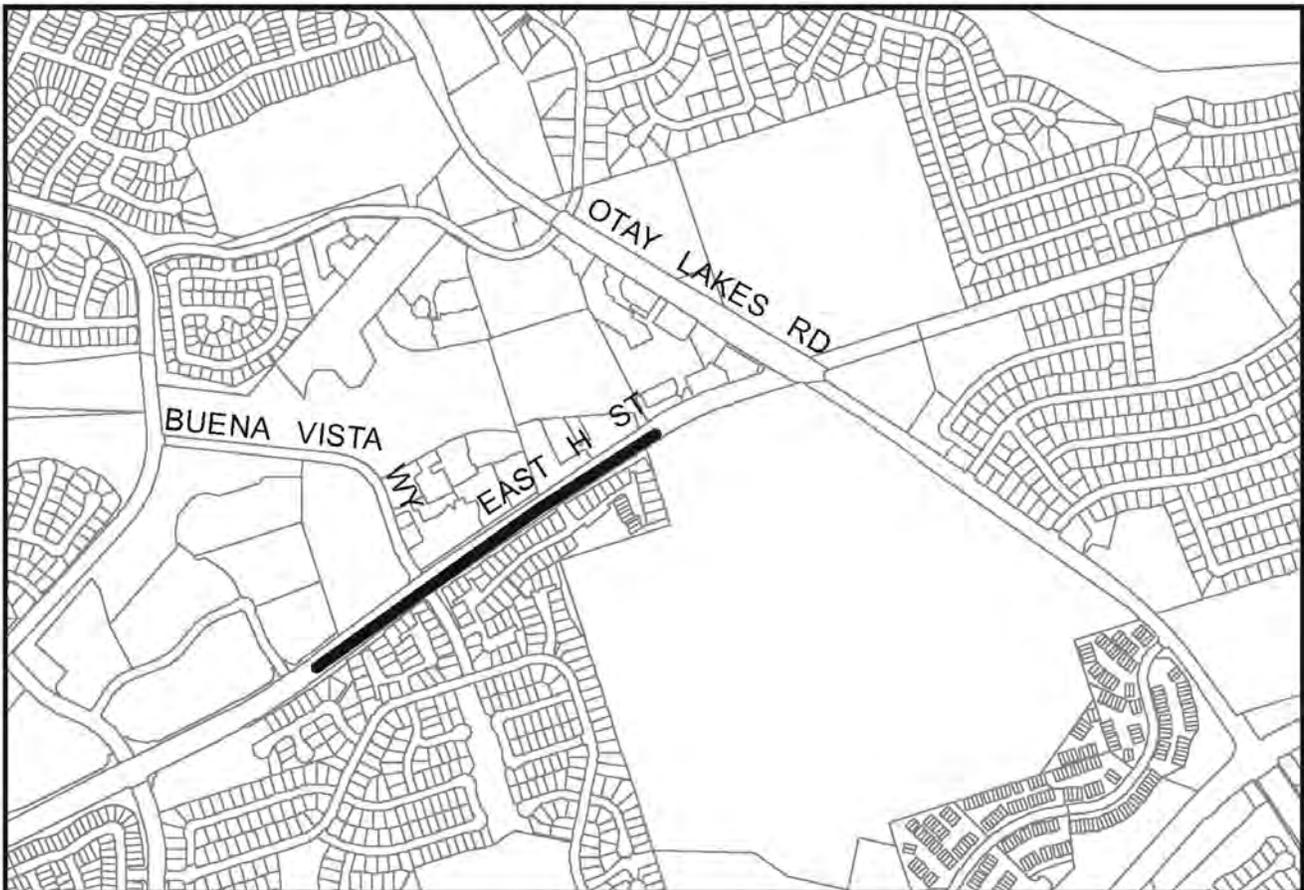
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:			\$0
DESIGN:			\$0
CONSTRUCTION:	7/1/2016	12/31/2016	\$50

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:** 113 & 129



**Submitted By:** Jolene Fielding

**Date:** 4/19/2016

**PROJECT TITLE:** 458-1 Reservoir Interior/Exterior Coating & Upgrades

**CIP Number:** P2593

**DIRECTOR DIVISION:** 2

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$840,000

**DESCRIPTION OF PROJECT:**

This project is for the interior and exterior coating of the 458-1 Reservoir. In addition, an assessment of the facility will be accomplished to assure compliance to all applicable codes and OSHA standards.

**JUSTIFICATION OF PROJECT:**

Based upon the 2013 Cathodic Assessment Report, the 458-1 Reservoir interior and exterior coatings are at the end of their useful life and in need of replacement.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$0	\$0	\$0	\$10	\$830	\$840

CIP Number: P2593

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	2/1/2021	6/30/2021	\$10
DESIGN:	7/1/2021	10/29/2021	\$50
CONSTRUCTION:	11/1/2021	6/30/2022	\$780

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 66



Submitted By: Bob Kennedy

Date: 8/11/2016

**PROJECT TITLE:** Large Meter Replacement

**CIP Number:** P2594

**DIRECTOR DIVISION:** 0

**PROJECT MANAGER:** Andrea Carey

**I.D. LOCATION:**

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 1

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$485,000

**DESCRIPTION OF PROJECT:**

This project is for the replacement of water meters 3-inch or larger.

**JUSTIFICATION OF PROJECT:**

Of the 219 large meters in the ground, 105 are no longer repairable and must be replaced. Staff anticipates 97 of these meters will need to be replaced in the next three years.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$240	\$150	\$95	\$0	\$0	\$485

**CIP Number: P2594**

**PROJECT SCHEDULE:**

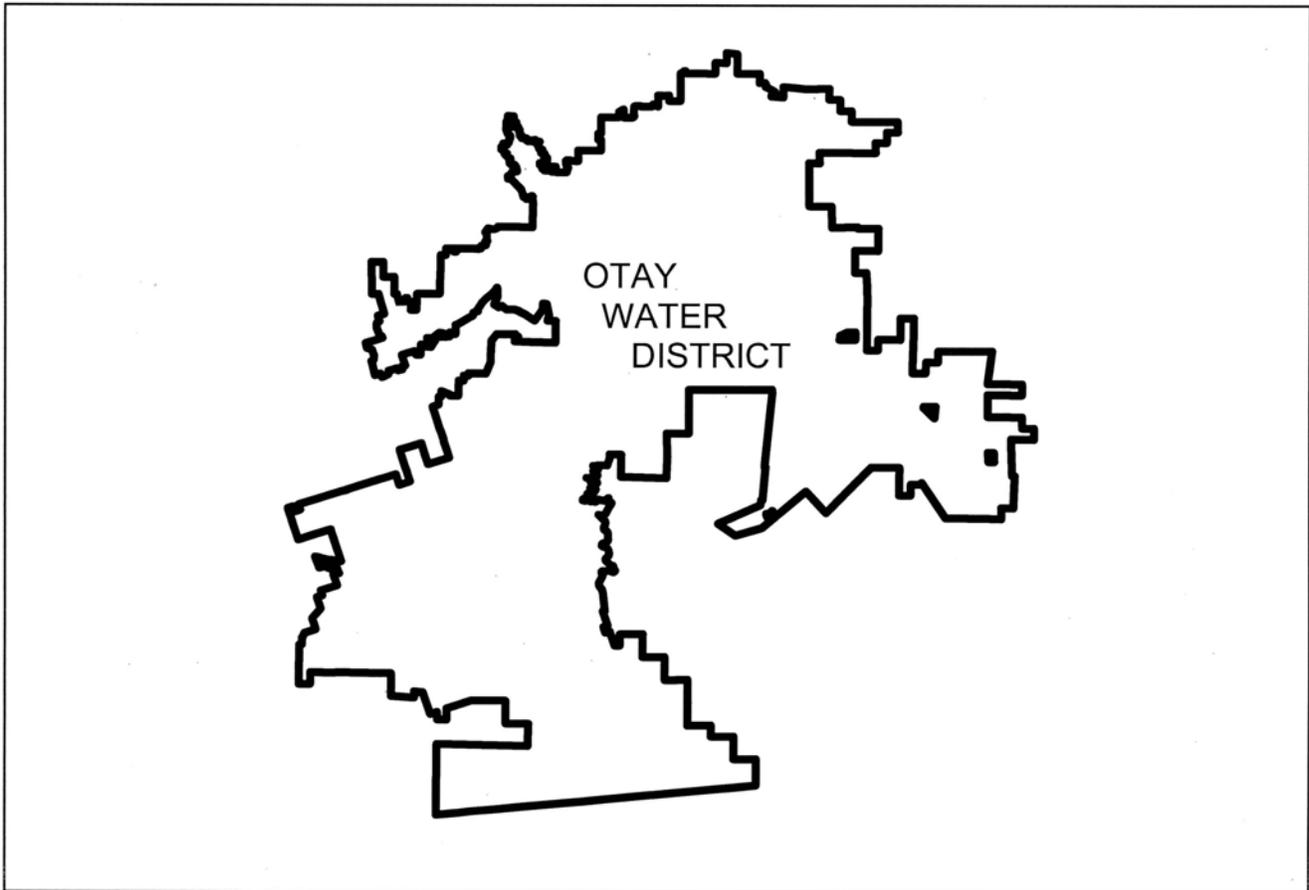
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>	7/1/2016	6/1/2019	\$0
<b>DESIGN:</b>			\$0
<b>CONSTRUCTION:</b>	7/1/2016	6/30/2019	\$485

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Jolene Fielding

**Date:** 4/19/2016

**PROJECT TITLE:** RWCWRF - RAS Pump Replacement

**CIP Number:** R2111

**DIRECTOR DIVISION:** 3

**PROJECT MANAGER:** Stephen Beppler

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:** 5/14/2013

**PRIORITY:** 1

**RELATED CIP PROJECTS:** R2096

**BUDGET AMOUNT:** \$570,000

**DESCRIPTION OF PROJECT:**

This project is to replace and upgrade the RAS pumps to 360 GPM to improve process control of the plant.

**JUSTIFICATION OF PROJECT:**

These improvements are needed due to increased pumping requirements of the new process. The existing pumps were installed in 1992 and are reaching the end of their useful life.

**COMMENTS:**

Project construction completed in FY 2016. Warranty work in FY 2017. Project can be closed out at end of FY 2017. Project budget reduced from \$600K to \$560K to reflect the project status.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$555	\$10	\$5	\$0	\$0	\$0	\$570

CIP Number: R2111

**PROJECT SCHEDULE:**

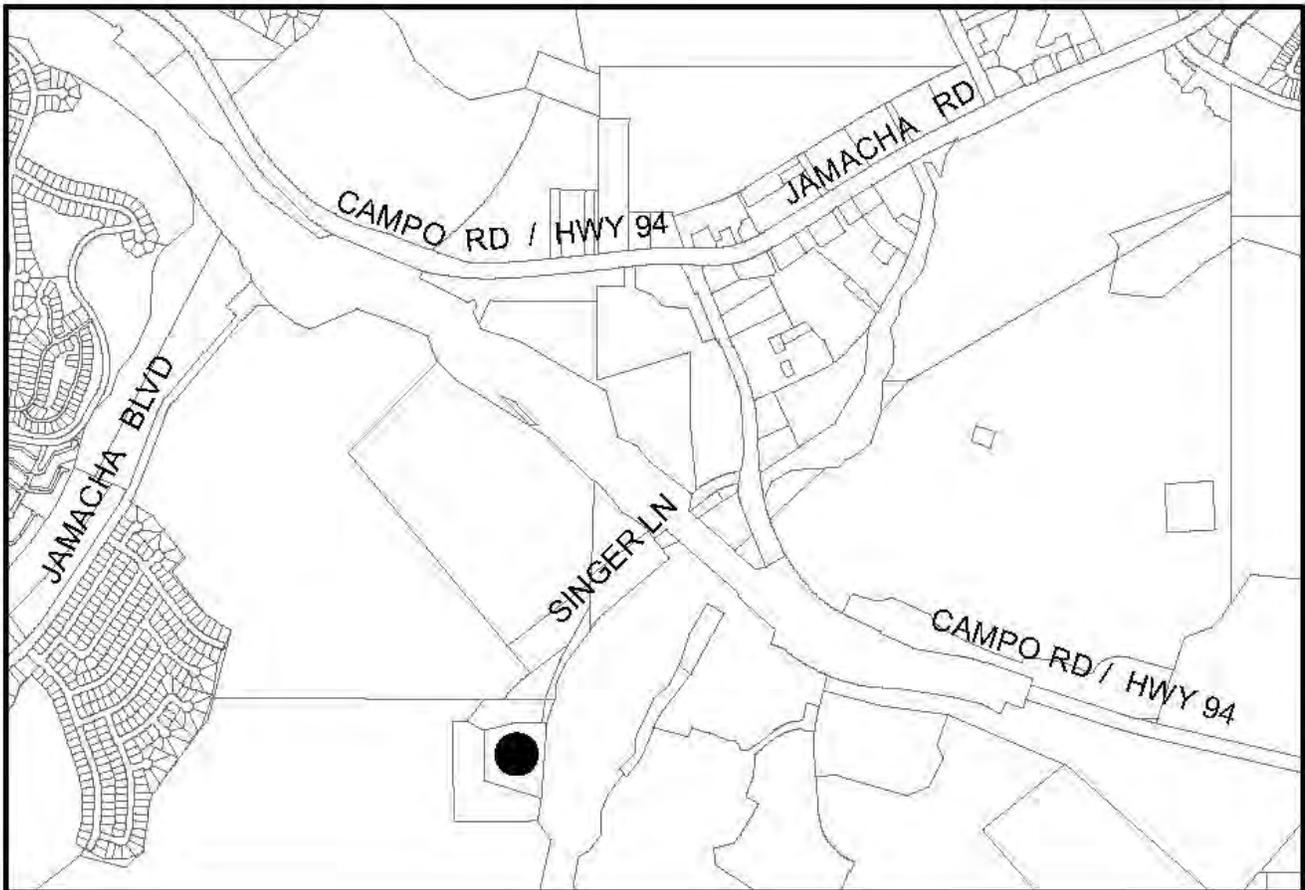
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2013	6/30/2014	\$10
DESIGN:	7/1/2014	6/30/2015	\$75
CONSTRUCTION:	7/1/2015	6/30/2018	\$485

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 319**



**Submitted By:** Steve Beppler

**Date:** 4/21/2016

**PROJECT TITLE:** 450-1 Disinfection Facility Rehabilitation

**CIP Number:** R2112

**DIRECTOR DIVISION:** 2

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 1

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$265,000

**DESCRIPTION OF PROJECT:**

This project is for the replacement of the two (2) existing sodium hypochlorite tanks, relocate and replace the valves and piping on the existing sodium hypochlorite feed system, remove existing acoustic louver and replace with roll-up door.

**JUSTIFICATION OF PROJECT:**

One of the existing sodium hypochlorite tanks has failed and is in need of replacement. The other is approaching the end of its useful life. The sodium hypochlorite feed system has faulty valves that are no longer available. The acoustic louver was installed for a diesel generator which is no longer needed. A roll-up door will ease future replacement of equipment.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$215	\$25	\$0	\$0	\$0	\$0	\$265

CIP Number: R2112

**PROJECT SCHEDULE:**

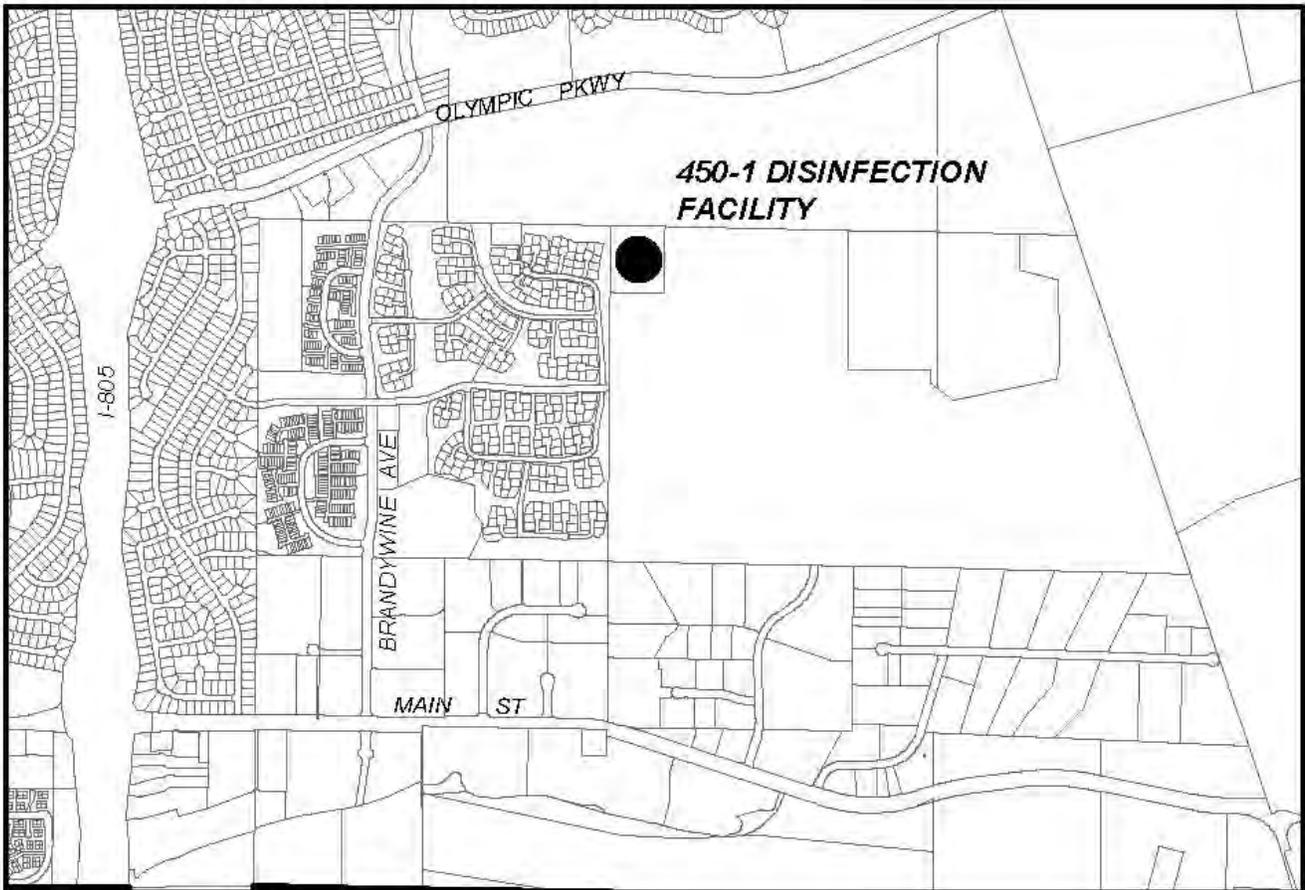
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2014	6/30/2014	\$5
DESIGN:	7/1/2014	6/30/2015	\$50
CONSTRUCTION:	7/1/2016	6/30/2018	\$210

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 66**



**Submitted By:** Steve Beppler

**Date:** 4/21/2016

**PROJECT TITLE:** Res - 944-1 Reservoir Cover/Liner Replacement

**CIP Number:** R2121

**DIRECTOR DIVISION:** 5

**PROJECT MANAGER:** Jeff Marchioro

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$1,400,000

**DESCRIPTION OF PROJECT:**

This project is for the replacement of the existing membrane floating cover and liner with a new membrane system.

**JUSTIFICATION OF PROJECT:**

The existing membrane floating cover and liner have reached the end of their useful lives and require replacement to meet regulatory requirements.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$20	\$1	\$30	\$1,348	\$0	\$0	\$1,400

CIP Number: R2121

**PROJECT SCHEDULE:**

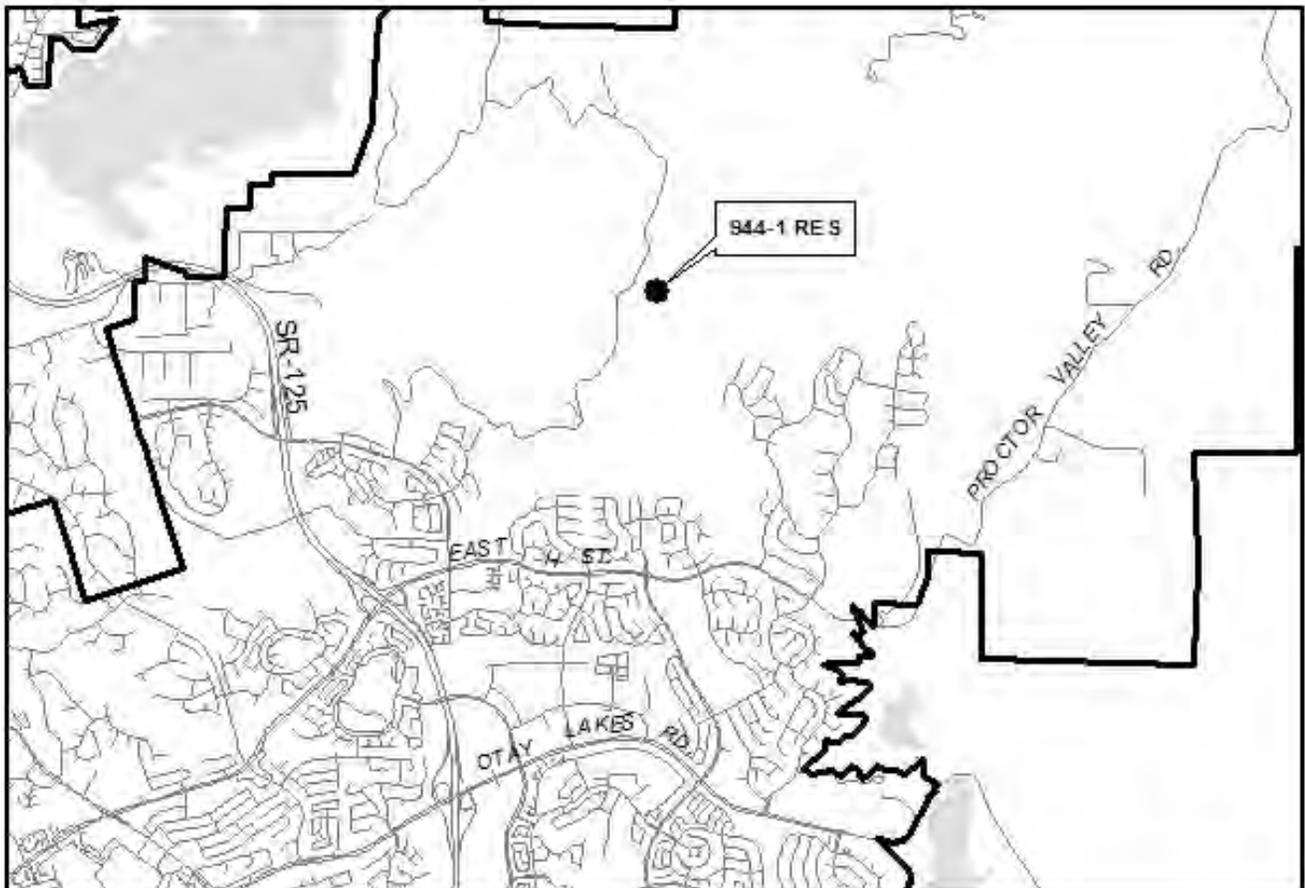
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2015	6/30/2016	\$10
DESIGN:	7/1/2016	9/30/2019	\$100
CONSTRUCTION:	10/1/2019	6/30/2020	\$1,290

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 172**



**Submitted By:** OTAY\Jeff.Marchioro

**Date:** 4/21/2016

<b>PROJECT TITLE:</b> Campo Road Sewer Main Replacement		<b>CIP Number:</b> S2024					
<b>PROJECT MANAGER:</b> Stephen Beppler		<b>DIRECTOR DIVISION:</b> 3		<b>I.D. LOCATION:</b> 18		<b>PRIORITY:</b> 1	
<b>ORIGINAL APPROVED DATE:</b> 5/17/2010		<b>BUDGET AMOUNT:</b> \$8,500,000					
<b>RELATED CIP PROJECTS:</b>							
<b>DESCRIPTION OF PROJECT:</b>							
<p>This project is to upgrade the sewer main capacity of approximately 11,050 feet of existing 10-inch PVC sewer main, 450 feet of 10-inch reinforced polymer mortar pipe sewer main, and 50 feet of 15-inch sewer main. The project location begins at the south end of Avocado Blvd, through the Rancho San Diego Village Shopping Center, paralleling the SR-94/Campo Road in the adjacent open space.</p>							
<b>JUSTIFICATION OF PROJECT:</b>							
<p>The existing sewer main is under-sized and must be replaced to increase capacity. Portions of the sewer main are located in areas of sensitive habitat making it difficult to access for maintenance.</p>							
<b>COMMENTS:</b>							
<p>Project design to be completed in FY 2016. Construction estimate is \$6.5M, with additional costs for administration, easements, inspection, and management bringing the estimate to \$7.3M (was previously estimated at \$4.5M). Projected construction costs throughout the design phase have consistently been between \$6-7M.</p>							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
Betterment ID 18	0 %	50 %	0 %	0 %	50 %		
Replacement	0 %	0 %	50 %	0 %	50 %		
<b>TOTAL:</b>	0 %	50 %	50 %	0 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$1,200	\$50	\$4,750	\$2,500	\$0	\$0	\$0
							\$8,500

CIP Number: S2024

PROJECT SCHEDULE:

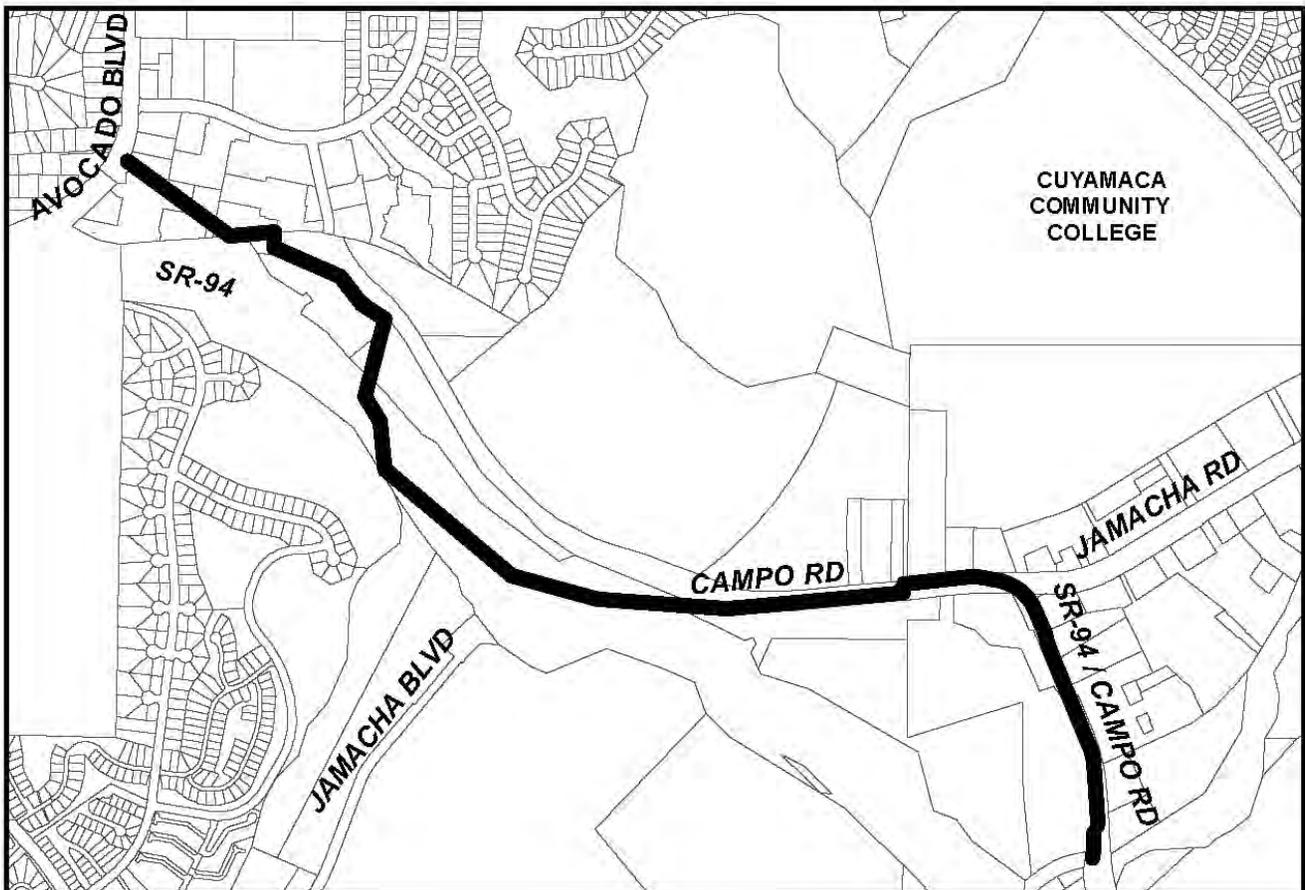
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2010	12/31/2014	\$160
DESIGN:	1/1/2015	6/30/2016	\$1,090
CONSTRUCTION:	7/1/2016	6/30/2018	\$7,250

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 330



Submitted By: Jolene Fielding

Date: 5/10/2016

**PROJECT TITLE:** Trenchless Sewer Rehabilitation

**CIP Number:** S2044

**DIRECTOR DIVISION:** 5

**PROJECT MANAGER:** Stephen Beppler

**I.D. LOCATION:**

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$650,000

**DESCRIPTION OF PROJECT:**

This project is to repair sewer damage by trenchless repair methods at over 50 identified sewer sites. The planning and design for this project was begun under S2033 and is now separated out into its own project entity.

**JUSTIFICATION OF PROJECT:**

The closed circuit television sewer assessment program process has assisted in the identification of sewer mains containing sags, which has allowed debris to form, and/or are damaged and need to be repaired.

**COMMENTS:**

Project planned to be bid and constructed in FY 2017.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$600	\$50	\$0	\$0	\$0	\$650

**CIP Number: S2044**

**PROJECT SCHEDULE:**

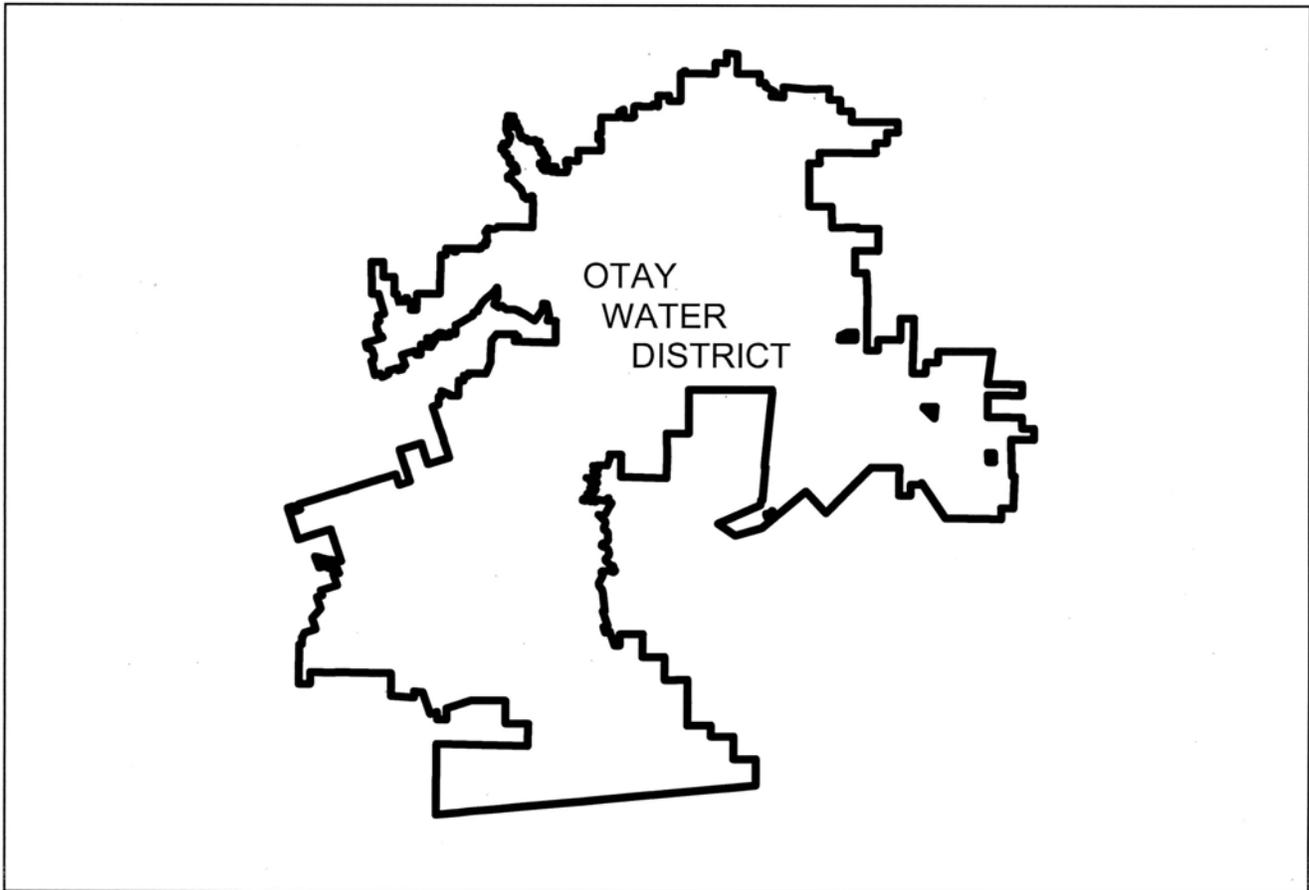
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>			\$0
<b>DESIGN:</b>	7/1/2016	2/28/2017	\$50
<b>CONSTRUCTION:</b>	3/1/2017	6/30/2018	\$600

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Steve Beppler

**Date:** 4/21/2016

**PROJECT TITLE:** Fuerte Drive Sewer Relocation

**CIP Number:** S2045

**DIRECTOR DIVISION:** 5

**PROJECT MANAGER:** Stephen Beppler

**I.D. LOCATION:**

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 1

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$200,000

**DESCRIPTION OF PROJECT:**

This project is for the relocation of the Fuerte Drive Sewer Main. The County of San Diego is realigning a portion of Fuerte Drive in an area where the District has identified sewer Site 34 for rehabilitation. This design will be accelerated to enable the work to be completed in coordination with the County road work.

**JUSTIFICATION OF PROJECT:**

The closed circuit television sewer assessment program process has assisted in the identification of sewer mains containing sags, which has allowed debris to form, and/or are damaged and need to be repaired.

**COMMENTS:**

Planning work has started under the S2033 project, from which this project is being taken from.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$190	\$10	\$0	\$0	\$0	\$200

CIP Number: S2045

PROJECT SCHEDULE:

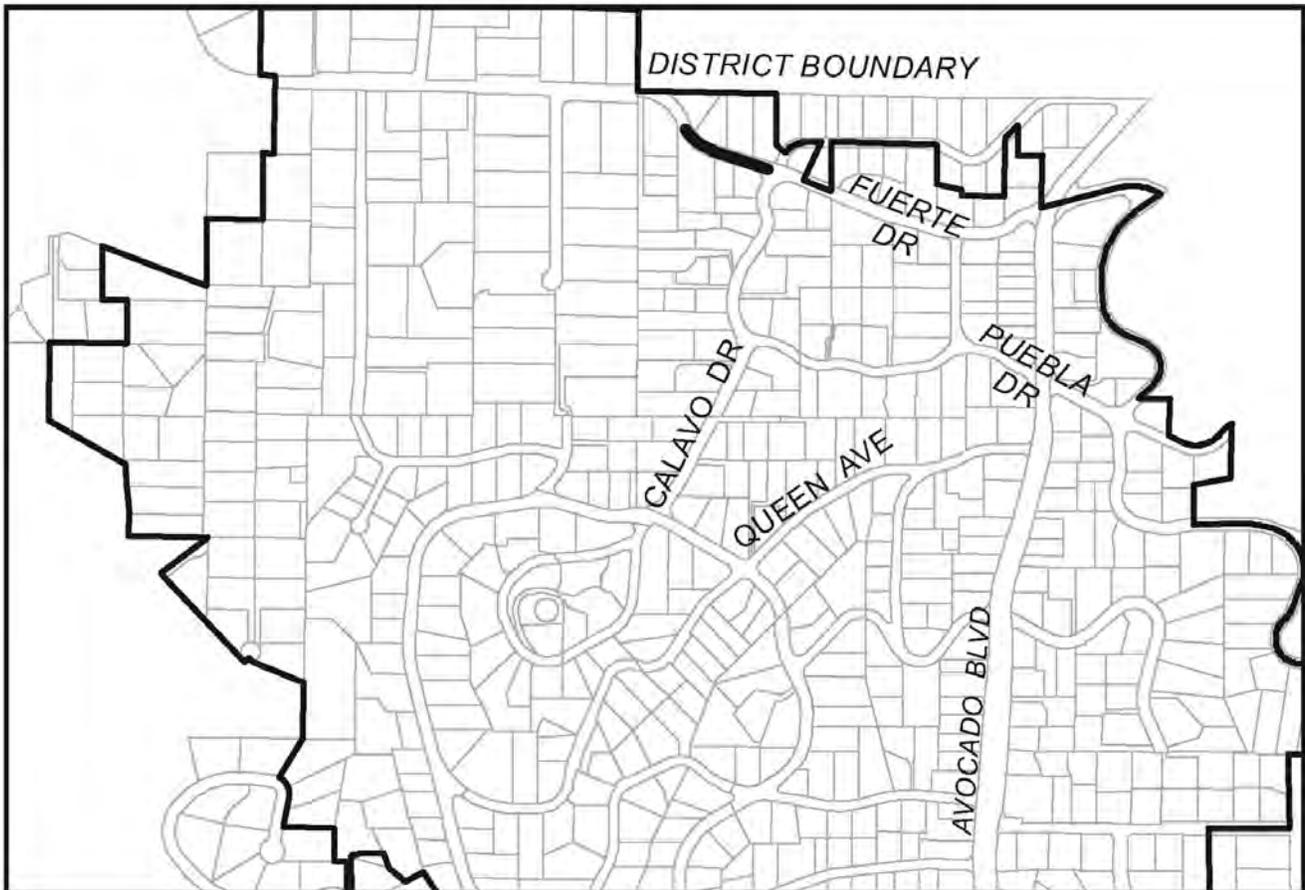
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2016	7/29/2016	\$5
DESIGN:	8/1/2016	3/31/2017	\$65
CONSTRUCTION:	4/3/2017	6/30/2018	\$130

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book:



Submitted By: Jolene Fielding

Date: 5/10/2016

<b>PROJECT TITLE:</b> RWCWRF - Aeration Panels Replacement		<b>CIP Number:</b> S2046					
<b>PROJECT MANAGER:</b> Stephen Beppler		<b>DIRECTOR DIVISION:</b> 3		<b>I.D. LOCATION:</b> 18		<b>PRIORITY:</b> 1	
<b>ORIGINAL APPROVED DATE:</b>		<b>BUDGET AMOUNT:</b> \$450,000					
<b>DESCRIPTION OF PROJECT:</b>							
<p>This project is for the replacement of aeration panels in 39 units to provide better air distribution at equal pressure. The existing aeration diffuser panels installed in the aeration basins are no longer being produced by the manufacturer and the facility has several panels in need of replacement. Options include manufacturer's retrofit with their currently offered panels or explore other alternative manufacturers. Each basin currently has 13 panels for a total of 39 units. Completion of the aeration header loop is also included to provide better air distribution at equal pressure.</p>							
<b>JUSTIFICATION OF PROJECT:</b>							
Failures of existing aeration diffuser panels require replacement immediately.							
<b>COMMENTS:</b>							
Recommend panel replacement be perform in a two-step process. Retrofit of one basin at first will enable the functional panels from that basin to be used as replacements in the other basins. This will allow for assessment of the operation of the new panels prior to implementing in all basins.							
<b>FUND DETAILS:</b>							
<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>		
Replacement	0 %	0 %	100 %	0 %	100 %		
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %		
<b>EXPENDITURE SCHEDULE (X \$1,000):</b>							
<b>PRIOR YEARS:</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>	<b>FY</b>
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$250	\$100	\$100	\$0	\$0	\$0
							\$450

CIP Number: S2046

**PROJECT SCHEDULE:**

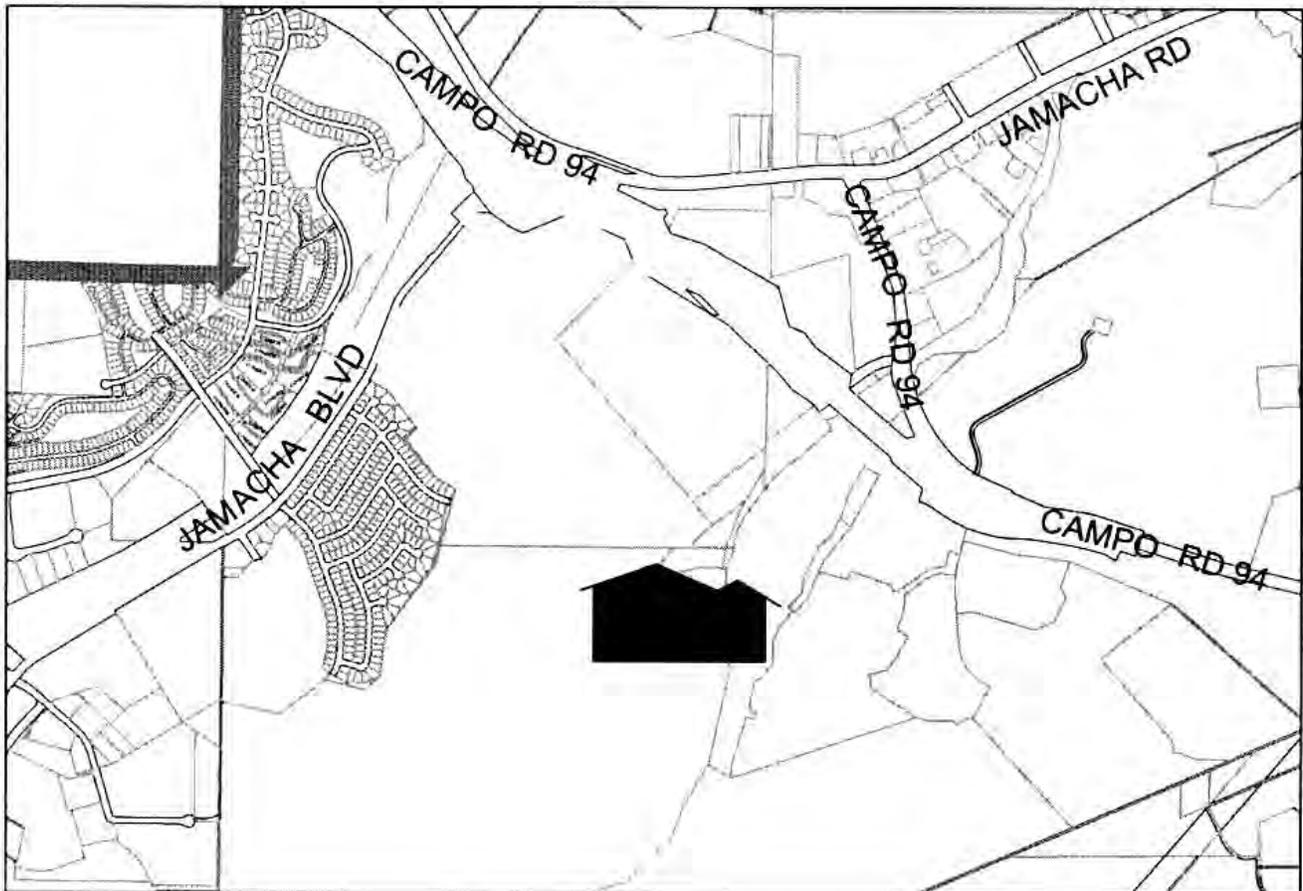
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2016	10/31/2016	\$20
DESIGN:	11/1/2016	1/31/2017	\$80
CONSTRUCTION:	2/1/2017	6/30/2019	\$350

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 319**



**Submitted By:** Jolene Fielding

**Date:** 4/19/2016

**PROJECT TITLE:** Hillsdale Road Sewer Repairs

**CIP Number:** S2048

**DIRECTOR DIVISION:** 5

**PROJECT MANAGER:** Stephen Beppler

**I.D. LOCATION:**

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 1

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$500,000

**DESCRIPTION OF PROJECT:**

This project is to repair two (2) areas of sewer mains, Sites 790 and 878, will be designed and constructed in coordination with the proposed waterline improvements in Hillsdale Road. This work was originally included in S2033.

**JUSTIFICATION OF PROJECT:**

The closed circuit television sewer assessment program process has assisted in the identification of sewer mains containing sags, which has allowed debris to form, and/or are damaged and need to be repaired.

**COMMENTS:**

Coordination with the waterline project is necessary.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$100	\$390	\$10	\$0	\$0	\$500

CIP Number: S2048

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:			\$0
DESIGN:	7/1/2016	1/3/2018	\$100
CONSTRUCTION:	1/4/2018	8/31/2018	\$400

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 356



Submitted By: Jolene Fielding

Date: 4/19/2016

**PROJECT TITLE:** Calavo Basin Sewer Rehabilitation - Phase 2

**CIP Number:** S2049

**DIRECTOR DIVISION:** 5

**PROJECT MANAGER:** Stephen Beppler

**I.D. LOCATION:**

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$1,000,000

**DESCRIPTION OF PROJECT:**

This project is for repairs to the gravity sanitary sewer system to repair areas with potential for sewer backups and spills. This project addresses the following nine sewer sites, primarily in the Calavo area: 25, 27, 56, 65, 78, 230, 310, 452 and 1460.

**JUSTIFICATION OF PROJECT:**

The closed circuit television sewer assessment program process has assisted in the identification of sewer mains containing sags, which has allowed debris to accumulate, and/or are damaged and need to be repaired.

**COMMENTS:**

This project is taken from S2033 and is the next highest priority areas after the Rancho San Diego Phase 1 project for open cut repairs.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$20	\$130	\$800	\$50	\$0	\$1,000

CIP Number: S2049

PROJECT SCHEDULE:

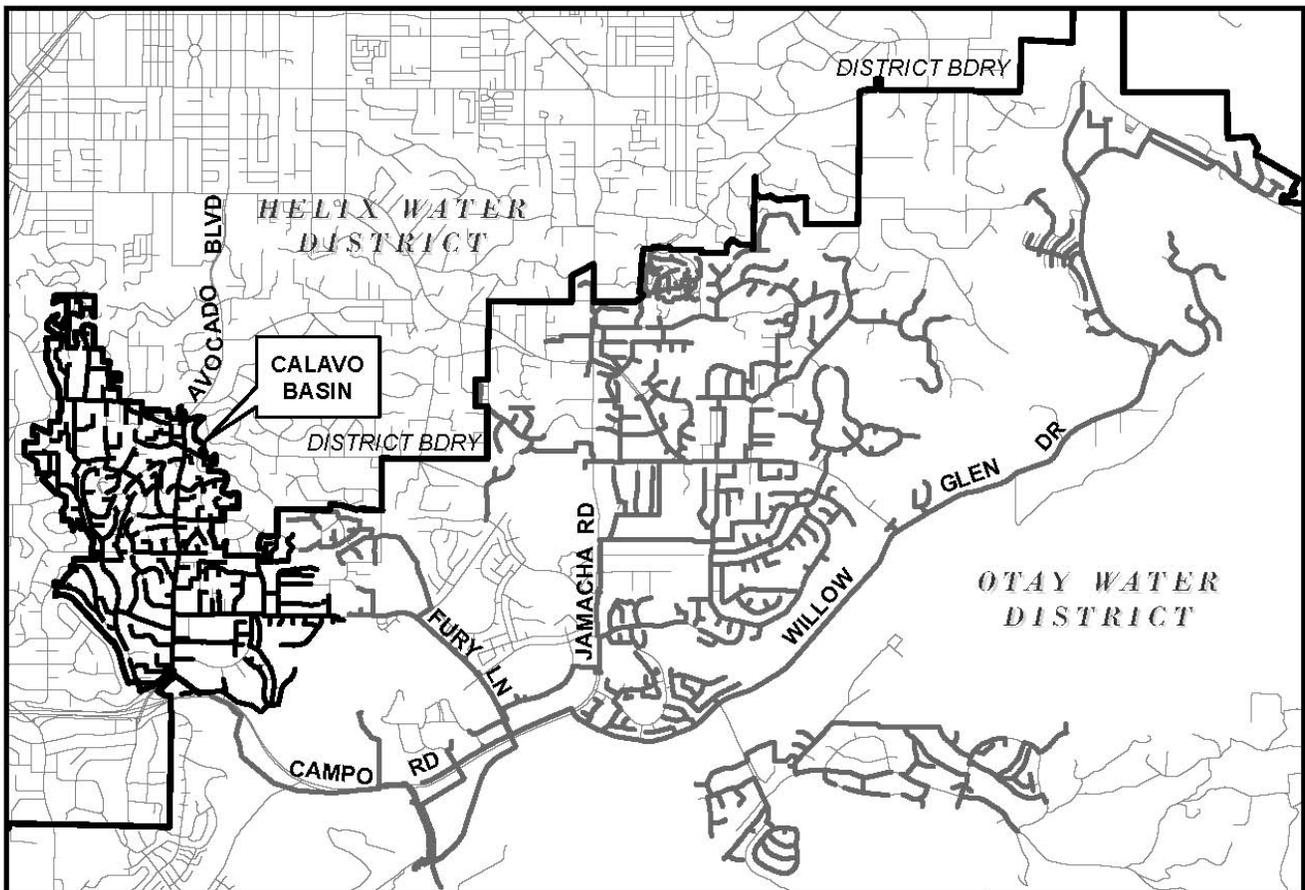
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2016	6/30/2017	\$20
DESIGN:	7/1/2017	6/30/2018	\$130
CONSTRUCTION:	7/1/2018	6/30/2020	\$850

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 353, 354, 365 & 366



Submitted By: Steve Beppler

Date: 4/21/2016

**PROJECT TITLE:** Rancho San Diego Basin Sewer Rehabilitation - Phase 2

**CIP Number:** S2050

**DIRECTOR DIVISION:** 5

**PROJECT MANAGER:** Stephen Beppler

**I.D. LOCATION:**

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$1,300,000

**DESCRIPTION OF PROJECT:**

This project is for the repairs to gravity sanitary sewer system to repair areas with potential for sewer backups and spills. This project addresses the following eight sewer sites: 705, 724, 735, 747, 750, 772, 775 and 847.

**JUSTIFICATION OF PROJECT:**

The closed circuit television sewer assessment program process has assisted in the identification of sewer mains containing sags, which has allowed debris to form, and/or are damaged and need to be repaired.

**COMMENTS:**

This project is taken from S2033 and is the next highest priority area for open cut repairs after the Calavo Phase 2 project.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$0	\$0	\$0	\$50	\$250	\$300

CIP Number: S2050

**PROJECT SCHEDULE:**

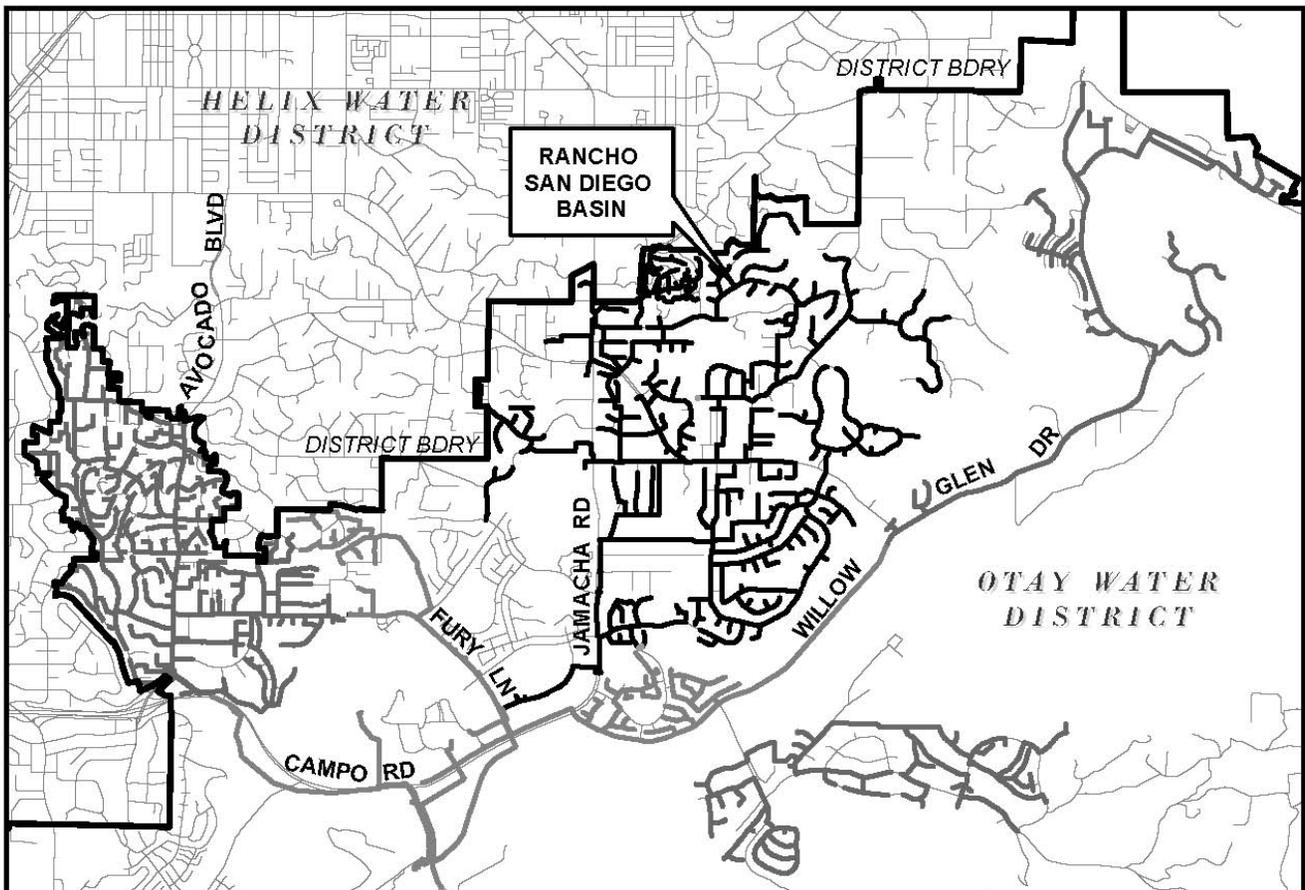
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2020	11/30/2020	\$20
DESIGN:	12/1/2020	12/31/2021	\$180
CONSTRUCTION:	1/1/2022	6/30/2023	\$1,100

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

OWD Map Book: 355, 356, 357, 368,



Submitted By: Steve Beppler

Date: 4/21/2016

**PROJECT TITLE:** RWCWRF - Headworks Improvements

**CIP Number:** S2051

**DIRECTOR DIVISION:** 3

**PROJECT MANAGER:** Stephen Beppler

**I.D. LOCATION:**

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$750,000

**DESCRIPTION OF PROJECT:**

This project is for the refurbishment of the treatment plant headworks, including rotary screen concrete channels, grating, and grit removal facilities.

**JUSTIFICATION OF PROJECT:**

The existing concrete channels and grating are deteriorating and in need of replacement. Grit removal is under-performing, with operators indicating grit buildup in the aeration basins.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$0	\$50	\$100	\$600	\$0	\$750

CIP Number: S2051

**PROJECT SCHEDULE:**

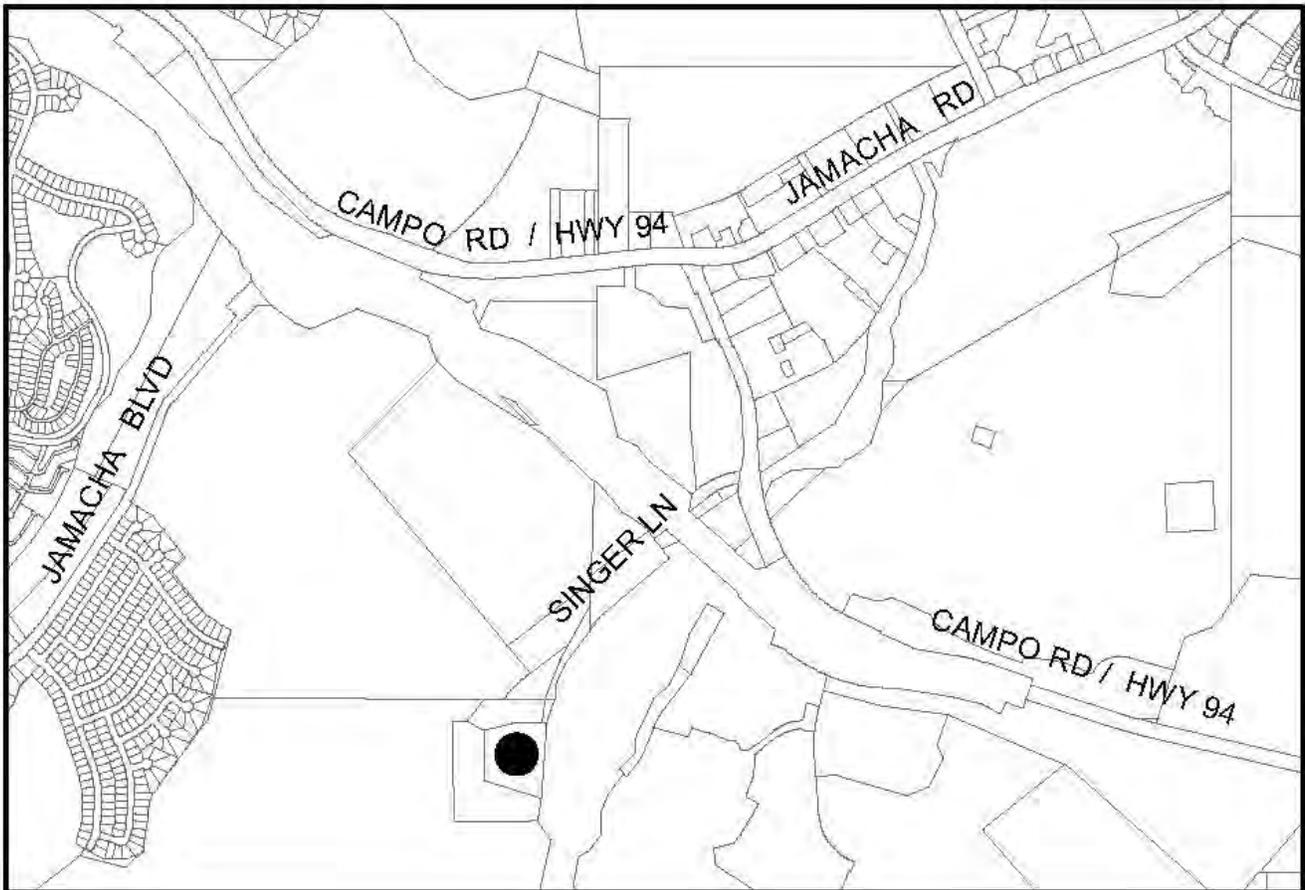
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2017	12/31/2017	\$20
DESIGN:	1/1/2018	6/30/2019	\$130
CONSTRUCTION:	7/1/2019	6/30/2020	\$600

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 319**



**Submitted By:** Steve Beppler

**Date:** 4/21/2016

**PROJECT TITLE:** RWCWRF - Access Roads Repaving

**CIP Number:** S2052

**DIRECTOR DIVISION:** 3

**PROJECT MANAGER:** Kevin Cameron

**I.D. LOCATION:**

**ORIGINAL APPROVED DATE:**

**PRIORITY:** 2

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$750,000

**DESCRIPTION OF PROJECT:**

This project is to replace the existing asphalt pavement for access road from Singer Lane to the plant and within the facility. Area to be paved is about 9000 SY.

**JUSTIFICATION OF PROJECT:**

Road surface is deteriorating and in need of replacement.

**COMMENTS:**

Project needs to wait for the completion of the upgrade to RSD Pump Station.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$0	\$0	\$50	\$400	\$300	\$750

CIP Number: S2052

**PROJECT SCHEDULE:**

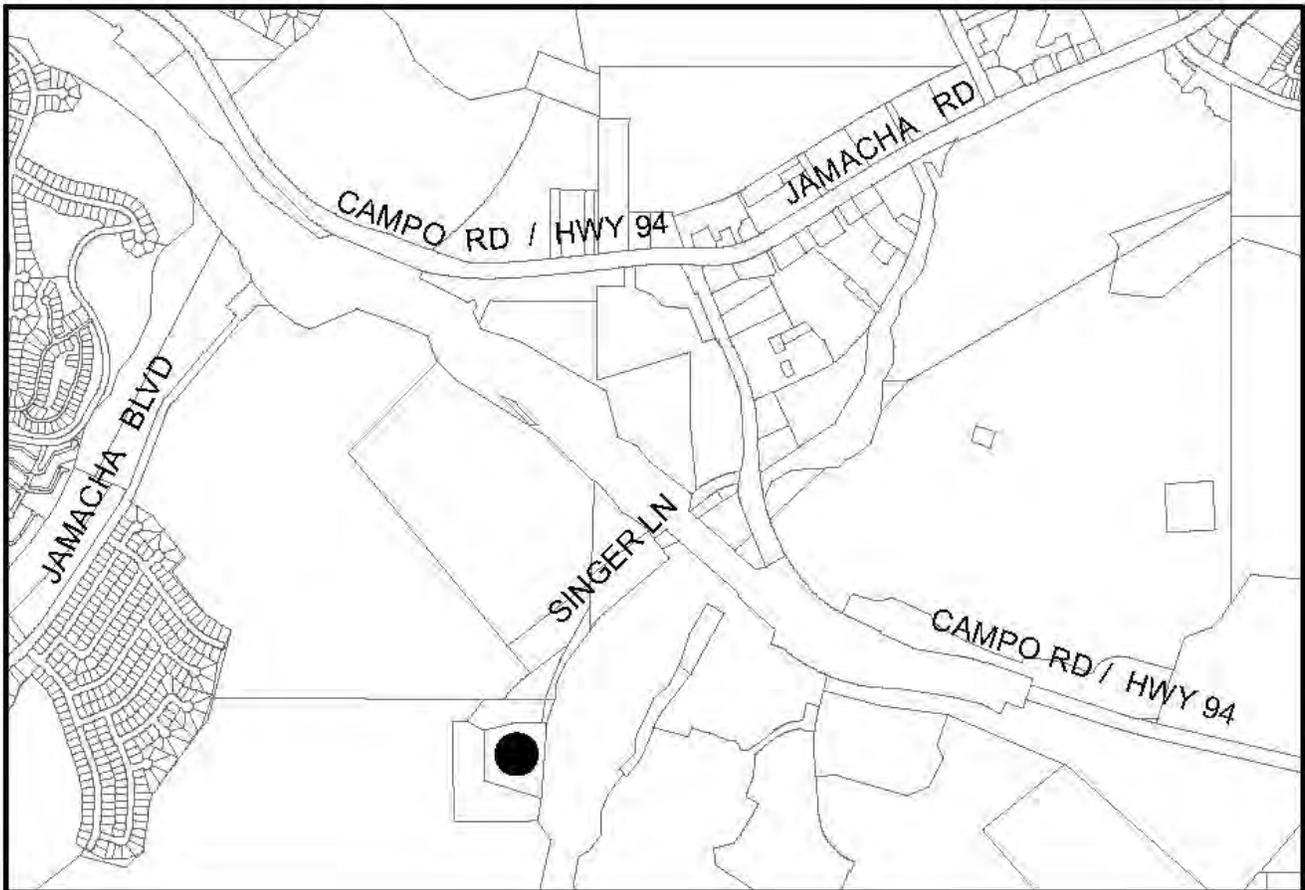
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2019	12/31/2019	\$20
DESIGN:	1/1/2020	9/30/2020	\$130
CONSTRUCTION:	10/1/2020	12/31/2021	\$600

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 319**



**Submitted By:** Steve Beppler

**Date:** 4/21/2016

**PROJECT TITLE: RWCWRF - Sedimentation Basins Refurbishment**

**CIP Number: S2053**

**DIRECTOR DIVISION: 3**

**PROJECT MANAGER:** Stephen Beppler

**I.D. LOCATION:**

**ORIGINAL APPROVED DATE:**

**PRIORITY: 2**

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT: \$600,000**

**DESCRIPTION OF PROJECT:**

This project is to replace on each of the three (3) sedimentation basins the effluent weirs, scum weir actuators, and drives as necessary. Install new motor actuated valves on the solids collection piping to complete the automation of this system.

**JUSTIFICATION OF PROJECT:**

The weirs and drives are at the end of their life and need replacement. The scum weir actuators do not function adequately to allow for automation of the movement.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$0	\$0	\$60	\$140	\$400	\$600

CIP Number: S2053

PROJECT SCHEDULE:

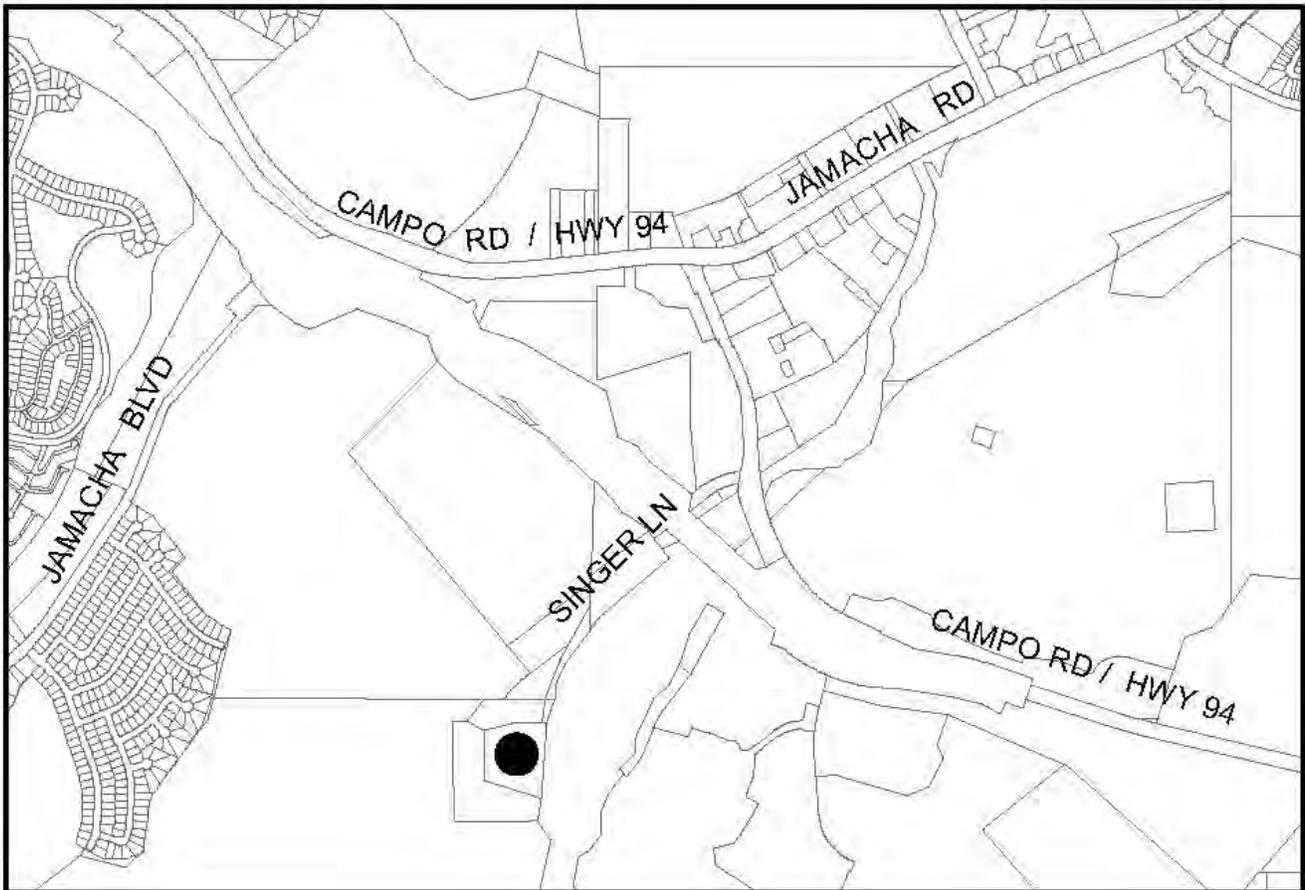
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2019	12/31/2019	\$30
DESIGN:	1/1/2020	9/30/2020	\$120
CONSTRUCTION:	10/1/2020	12/31/2021	\$450

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 319



Submitted By: Jolene Fielding

Date: 4/29/2016

**PROJECT TITLE: Calavo Basin Sewer Rehabilitation - Phase 3**

**CIP Number: S2054**

**DIRECTOR DIVISION: 5**

**PROJECT MANAGER: Stephen Beppler**

**I.D. LOCATION:**

**ORIGINAL APPROVED DATE:**

**PRIORITY: 2**

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT: \$1,300,000**

**DESCRIPTION OF PROJECT:**

This project is for the repairs to gravity sanitary sewer system to repair areas with potential for sewer backups and spills. This project addresses the following nine sewer sites in the Calavo area: 5.1, 93, 126, 150.1, 150.2, 186, 200, 436 and 1000.

**JUSTIFICATION OF PROJECT:**

The closed circuit television sewer assessment program process has assisted in the identification of sewer mains containing sags, which has allowed debris to form, and/or are damaged and need to be repaired.

**COMMENTS:**

This project is taken from S2033 and is the next highest priority areas after the Rancho San Diego Phase 2 project for open cut repairs.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$0	\$0	\$0	\$50	\$250	\$300

CIP Number: S2054

PROJECT SCHEDULE:

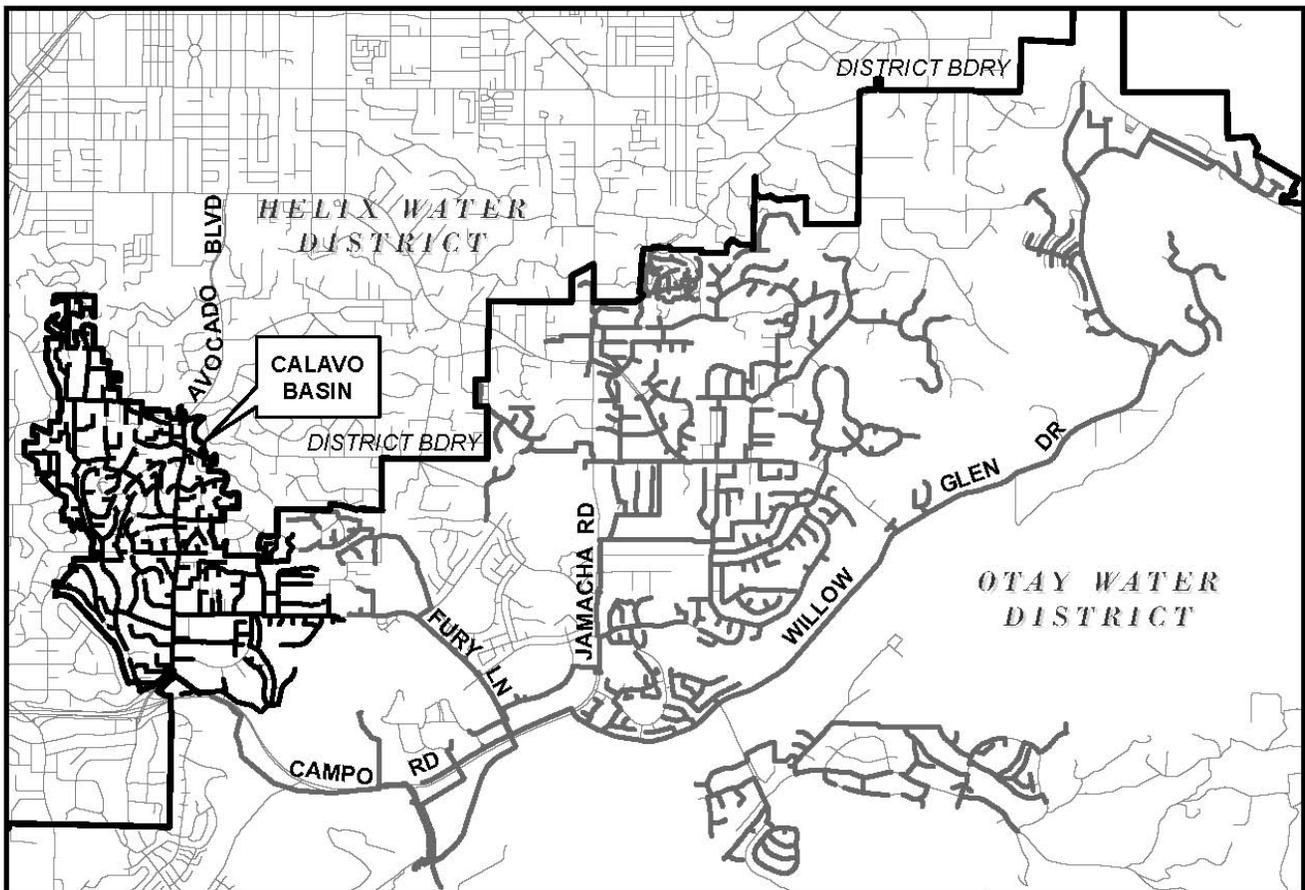
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2020	11/30/2020	\$20
DESIGN:	12/1/2020	10/31/2021	\$180
CONSTRUCTION:	11/1/2021	6/30/2023	\$1,100

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 353, 354, 365, 366



Submitted By: Steve Beppler

Date: 4/21/2016

**OTAY WATER DISTRICT  
CAPITAL IMPROVEMENT PROGRAM**

<b>PROJECT TITLE:</b> Vehicle Capital Purchases	<b>CIP Number:</b> P2282
<b>PROJECT MANAGER:</b> Doug Rahders	<b>DIRECTOR DIVISION:</b> 0
<b>ORIGINAL APPROVED DATE:</b> 6/3/1996	<b>I.D. LOCATION:</b> District Wide
<b>RELATED CIP PROJECTS:</b>	<b>PRIORITY:</b> 1
	<b>BUDGET AMOUNT:</b> \$5,491,000

**DESCRIPTION OF PROJECT:**  
This project is for the capital purchase of various vehicles for daily Otay Water District functions.

**JUSTIFICATION OF PROJECT:**  
Replacements or newly acquired vehicles will be used for operational and administrative functions throughout the entire Otay Water District.

**COMMENTS:**

**FUND DETAILS:**

FUNDING SOURCE:	Expansion	Betterment	Replacement	New Water Supply	Total
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	FY	
TOTAL	2017	2018	2019	2020	2021	2022	Total	
	\$3,646	\$197	\$290	\$240	\$187	\$236	\$253	\$5,049

**CIP Number: P2282**

**PROJECT SCHEDULE:**

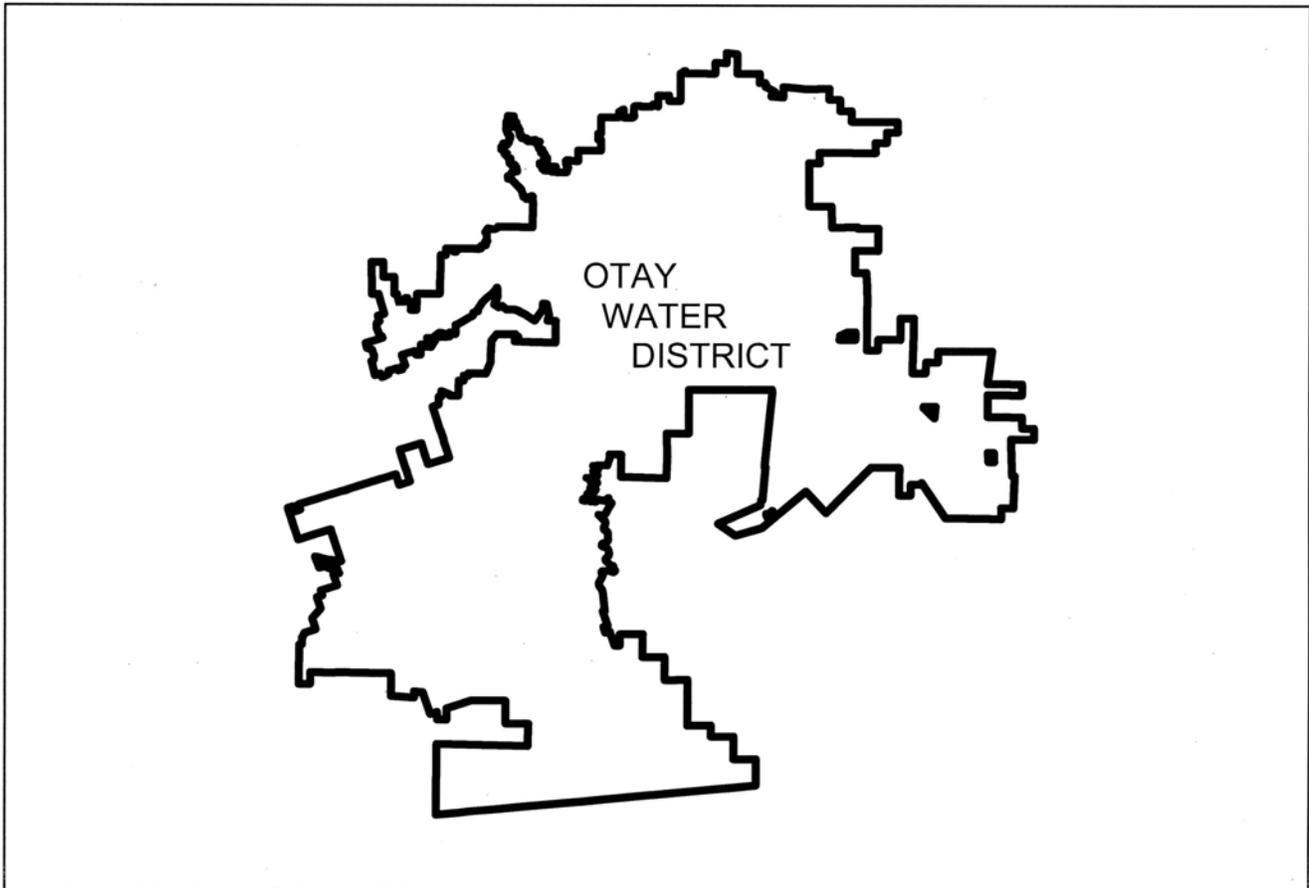
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>	12/1/2000	6/30/2023	\$5,491
<b>DESIGN:</b>			\$0
<b>CONSTRUCTION:</b>			\$0

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Steve Beppler

**Date:** 4/21/2016

**PROJECT TITLE:** Office Equipment and Furniture Capital Purchases

**CIP Number:** P2285

**DIRECTOR DIVISION:** 0

**PROJECT MANAGER:** Kent Payne

**I.D. LOCATION:** District Wide

**ORIGINAL APPROVED DATE:** 6/3/1996

**PRIORITY:** 1

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$589,000

**DESCRIPTION OF PROJECT:**

This project is for capital purchases of various office equipment and furniture items used for daily Otay Water District functions.

**JUSTIFICATION OF PROJECT:**

Replacements or new acquisitions of office equipment and furniture will be used for operational and administrative functions throughout the entire Otay Water District.

**COMMENTS:**

2016 - Projected expenditure for Customer Service workstation ergonomic upgrades.

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$536	\$15	\$15	\$8	\$0	\$0	\$589

**CIP Number: P2285**

**PROJECT SCHEDULE:**

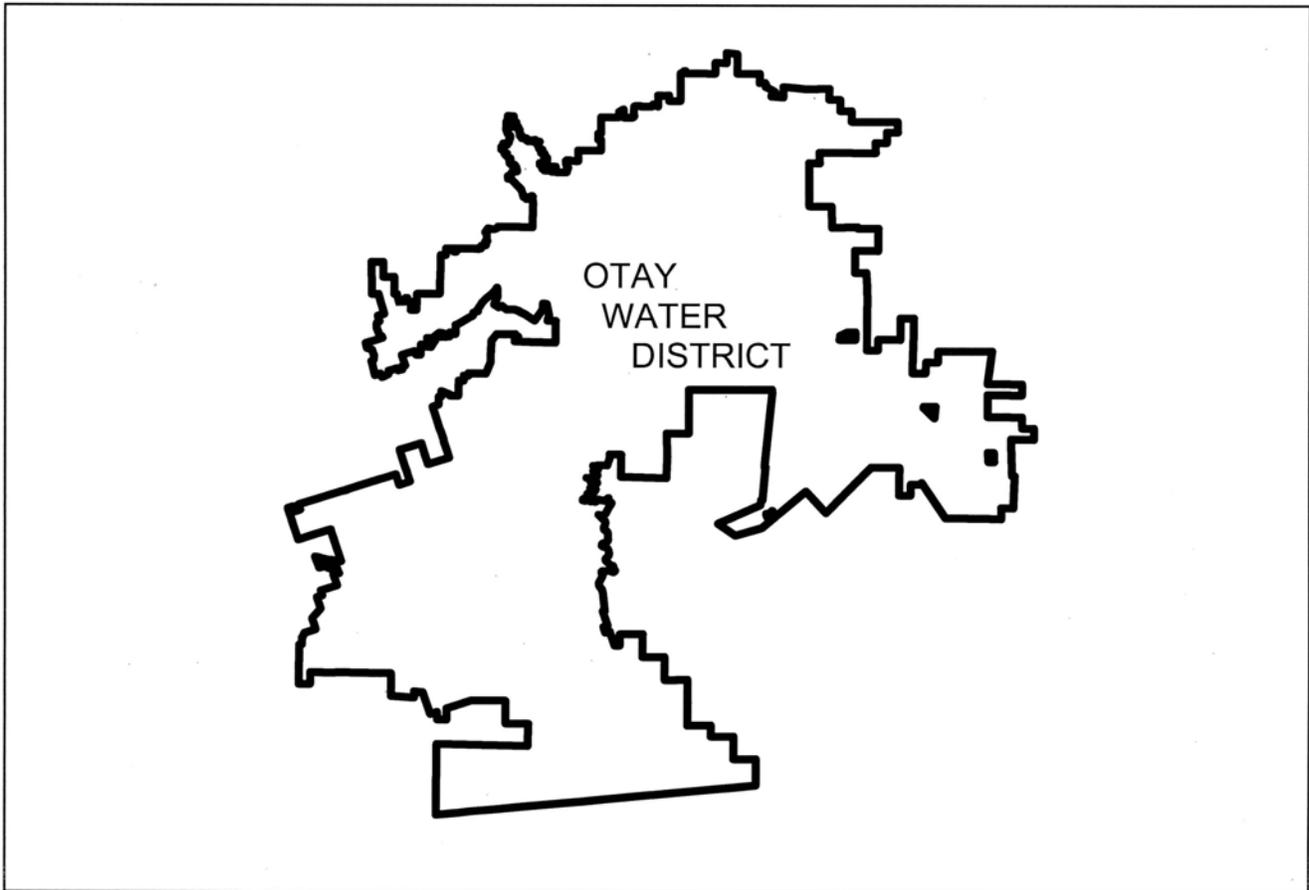
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>			\$0
<b>DESIGN:</b>			\$0
<b>CONSTRUCTION:</b>	7/1/2000	6/30/2020	\$589

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Jolene Fielding

**Date:** 5/10/2016

**PROJECT TITLE:** Field Equipment Capital Purchases

**CIP Number:** P2286

**DIRECTOR DIVISION:** 0

**PROJECT MANAGER:** Doug Rahders

**I.D. LOCATION:** District Wide

**ORIGINAL APPROVED DATE:** 6/3/1996

**PRIORITY:** 1

**RELATED CIP PROJECTS:**

**BUDGET AMOUNT:** \$1,634,000

**DESCRIPTION OF PROJECT:**

This project is for capital purchases of various pieces of field equipment used for daily Otay Water District functions.

**JUSTIFICATION OF PROJECT:**

Replacements or new acquisitions of field equipment will be used for operational functions throughout the entire Otay Water District.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>							
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>	
	\$1,386	\$38	\$105	\$50	\$55	\$0	\$0	\$1,634

**CIP Number: P2286**

**PROJECT SCHEDULE:**

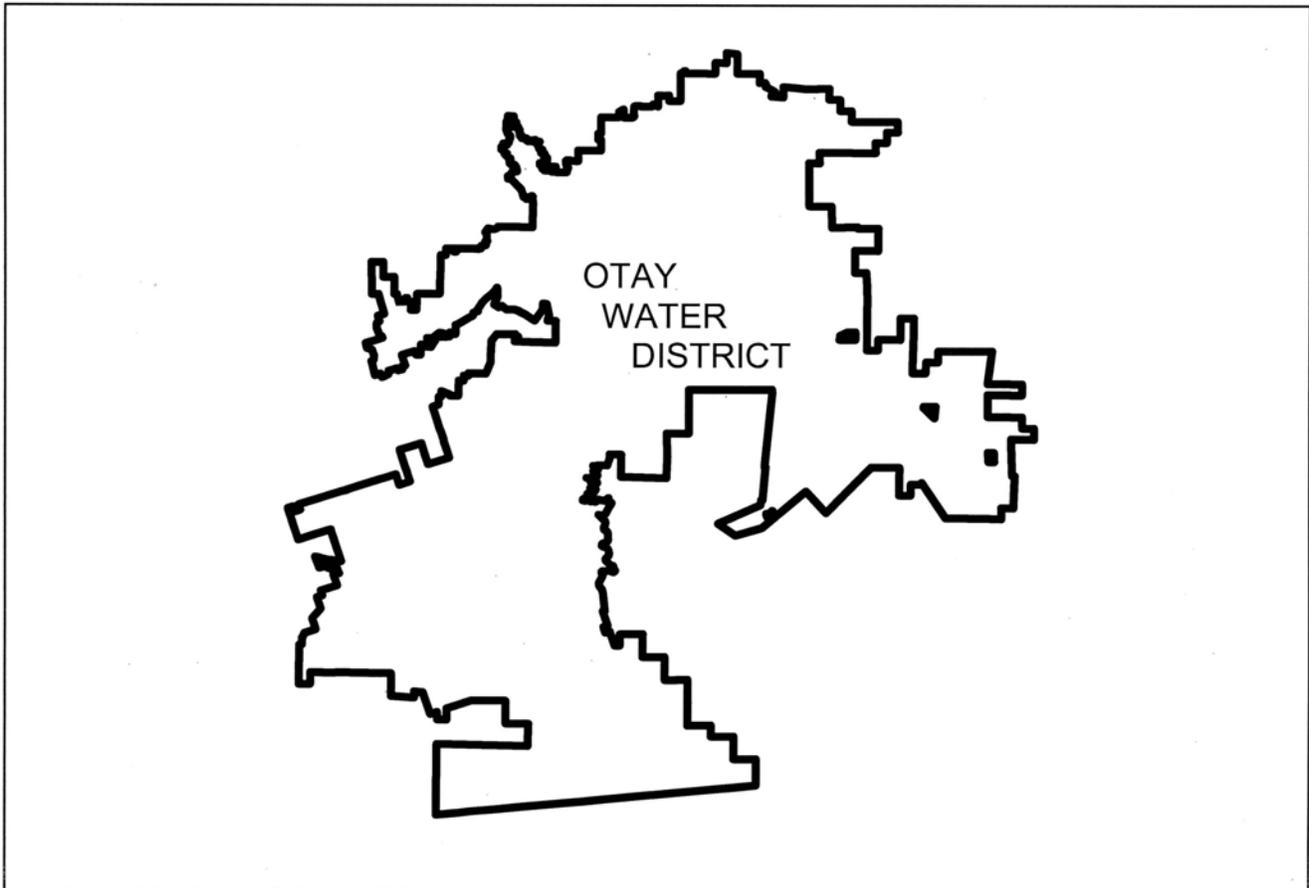
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>	7/1/1996	6/30/2021	\$1,634
<b>DESIGN:</b>			\$0
<b>CONSTRUCTION:</b>			\$0

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Jolene Fielding

**Date:** 5/10/2016

**OTAY WATER DISTRICT  
CAPITAL IMPROVEMENT PROGRAM**

<b>PROJECT TITLE:</b> APCD Engine Replacements and Retrofits	<b>CIP Number:</b> P2366
<b>PROJECT MANAGER:</b> Doug Rahders	<b>DIRECTOR DIVISION:</b> 0
<b>ORIGINAL APPROVED DATE:</b> 12/6/2000	<b>I.D. LOCATION:</b> District Wide
<b>RELATED CIP PROJECTS:</b>	<b>PRIORITY:</b> 1
	<b>BUDGET AMOUNT:</b> \$3,371,000

**DESCRIPTION OF PROJECT:**

This project will replace and/or retrofit 14 diesel fuel burning engines with the best technology exhaust gas control systems throughout the Otay Water District to comply with APCD engine emission regulations. The Otay Water District also needs to replace, re-power, and/or retrofit the heavy vehicle diesel fleet to comply with upcoming emissions regulations.

**JUSTIFICATION OF PROJECT:**

The Otay Water District is required to replace and/or retrofit its engines to meet current APCD requirements, including the Air Toxics Control Measures, and to be consistent with the intended operation of the engines to meet system demands. The Otay Water District also needs to replace, re-power, and/or retrofit the heavy vehicle diesel fleet to meet future emissions requirements. In FY 2016, two (2) potable engine driven pumps estimated at \$520K are being rebudgeted in FY 2017 because the manufacturer cannot deliver until FY 2017.

**COMMENTS:**

2/21/2014: Two (2) portable gensets and two (2) pump engine APCD permits are scheduled to expire on 12/31/2016.

**FUND DETAILS:**

FUNDING SOURCE:	Expansion	Betterment	Replacement	New Water Supply	Total
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	0 %	0 %	100 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	FY
TOTAL	2017	2018	2019	2020	2021	2022	Total
	\$2,551	\$820	\$0	\$0	\$0	\$0	\$3,371

**CIP Number: P2366**

**PROJECT SCHEDULE:**

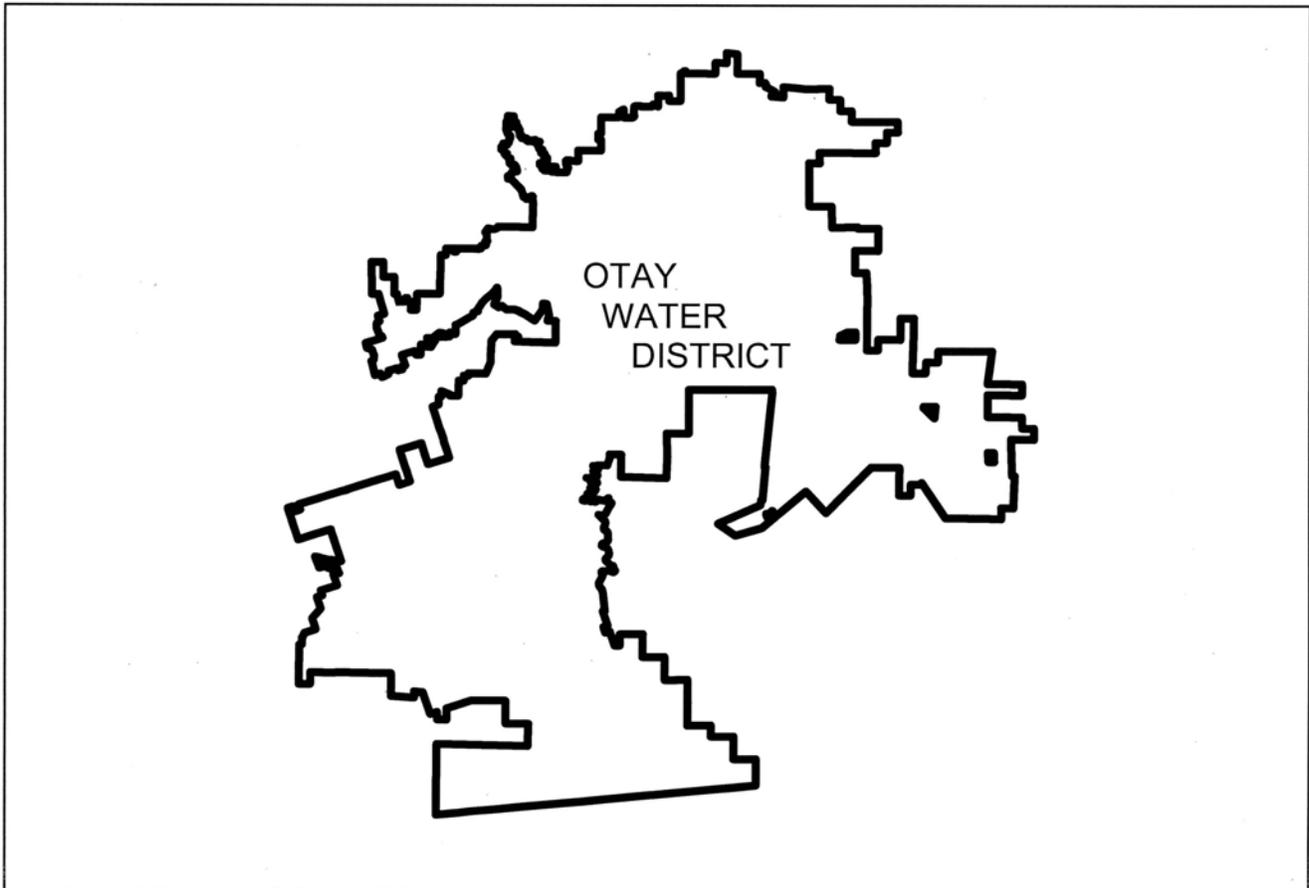
<b>PROJECT PHASE:</b>	<b>ESTIMATED START DATE</b>	<b>ESTIMATED FINISHED DATE</b>	<b>ESTIMATED COST (X \$1,000):</b>
<b>PLANNING:</b>	12/1/2000	6/1/2001	\$113
<b>DESIGN:</b>	7/1/2001	6/1/2010	\$312
<b>CONSTRUCTION:</b>	7/1/2010	6/30/2017	\$2,946

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
<b>MAINT:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>ENERGY:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>CHEMICAL:</b>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book:**



**Submitted By:** Bob Kennedy

**Date:** 9/1/2016

**OTAY WATER DISTRICT  
CAPITAL IMPROVEMENT PROGRAM**

<b>PROJECT TITLE:</b> PL-10" to 12" Oversize, 1296 Zone, PB Road-Rolling Hills Hydro PS/PB Bndy	<b>CIP Number:</b> P2325
<b>PROJECT MANAGER:</b> Stephen Beppler	<b>DIRECTOR DIVISION:</b> 4
<b>ORIGINAL APPROVED DATE:</b>	<b>I.D. LOCATION:</b> 22
<b>RELATED CIP PROJECTS:</b>	<b>PRIORITY:</b> 2
	<b>BUDGET AMOUNT:</b> \$22,000

**DESCRIPTION OF PROJECT:**

This project is for the construction of approximately 6.900 feet of 12-inch pipeline within the 1296 Pressure Zone, from the Rolling Hills Hydropneumatic Pump Station to the future 1296 Reservoir. A portion of the project will be constructed by the developer and is subject to reimbursement at actual cost for the oversize portion per Board policy.

**JUSTIFICATION OF PROJECT:**

The conversion from a hydropneumatic tank system to a reservoir includes the construction of a waterline from the current system to the proposed tank location. Upsizing of the theoretically required 10-inch water main to a 12-inch line will provide the District adequate water movement capabilities for future needs.

**COMMENTS:**

**FUND DETAILS:**

FUNDING SOURCE:	Expansion	Betterment	Replacement	New Water Supply	Total
Expansion	100 %	0 %	0 %	0 %	100 %
<b>TOTAL:</b>	100 %	0 %	0 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

PRIOR YEARS:	FY						
TOTAL	2017	2018	2019	2020	2021	2022	Total
	\$19	\$3	\$0	\$0	\$0	\$0	\$22

CIP Number: P2325

PROJECT SCHEDULE:

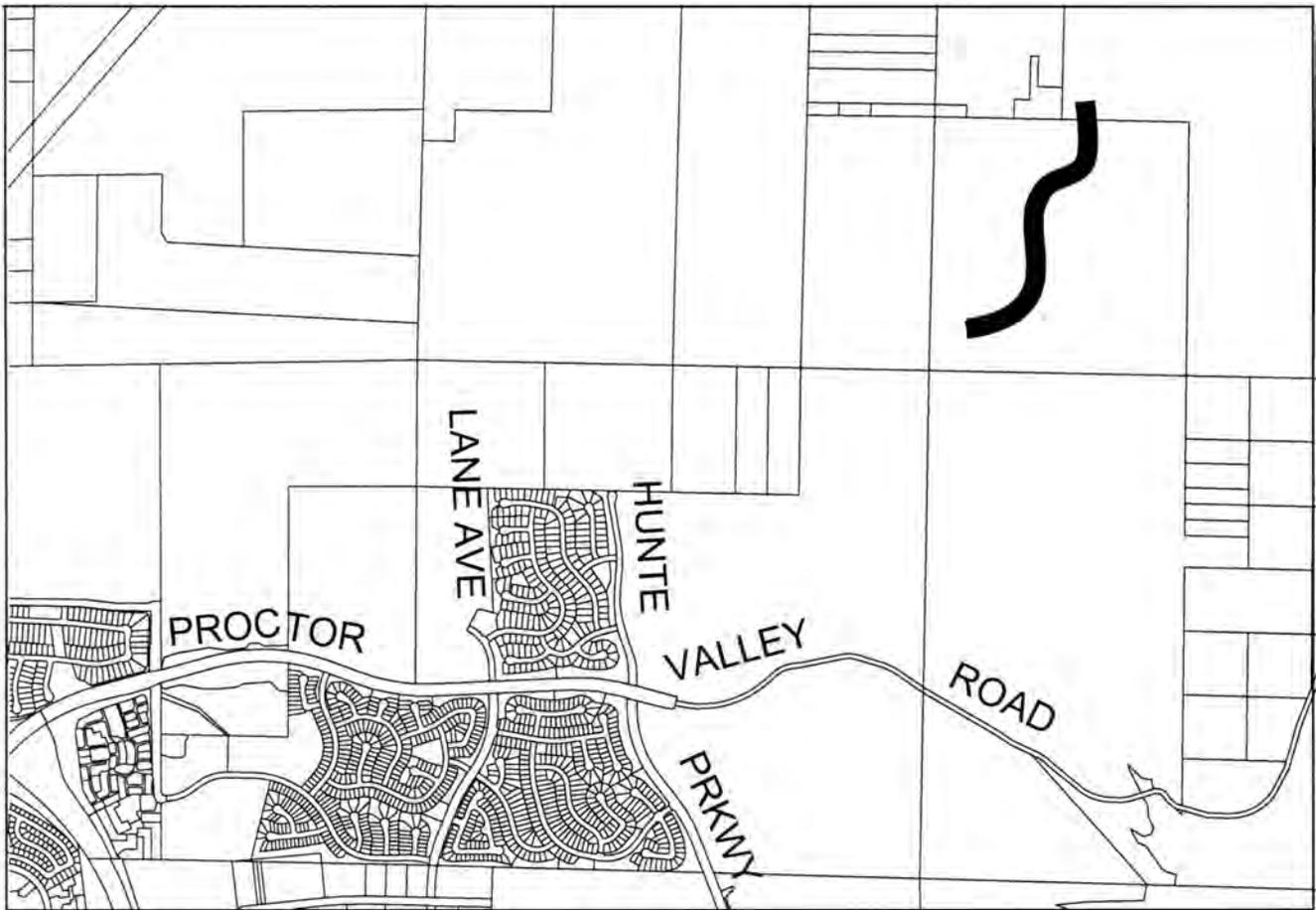
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2015	6/30/2016	\$1
DESIGN:	7/1/2015	6/30/2016	\$1
CONSTRUCTION:	7/1/2016	6/30/2017	\$20

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 160



Submitted By: Steve Beppler

Date: 4/21/2016

**PROJECT TITLE:** PL - 12-inch, 624 Zone, Heritage Road - Olympic/Otay Valley

**CIP Number:** P2403

**DIRECTOR DIVISION:** 2

**PROJECT MANAGER:** Stephen Beppler

**I.D. LOCATION:** 22

**ORIGINAL APPROVED DATE:** 5/23/2005

**PRIORITY:** 2

**RELATED CIP PROJECTS:** P2404

**BUDGET AMOUNT:** \$925,000

**DESCRIPTION OF PROJECT:**

This project is for construction of approximately 6,800 feet of 12-inch pipeline within the 624 Pressure Zone in Heritage Road between Olympic Parkway to Otay Valley Road/Main Street. This project will be constructed by the developer and is subject to reimbursement per Board policy.

**JUSTIFICATION OF PROJECT:**

This project will provide transmission capacity for development of Otay Ranch and other areas within the 624 Pressure Zone.

**COMMENTS:**

**FUND DETAILS:**

<b>FUNDING SOURCE:</b>	<b>Expansion</b>	<b>Betterment</b>	<b>Replacement</b>	<b>New Water Supply</b>	<b>Total</b>
Expansion	100 %	0 %	0 %	0 %	100 %
<b>TOTAL:</b>	100 %	0 %	0 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

<b>PRIOR YEARS:</b>	<b>FY</b>						
<b>TOTAL</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>	<b>2022</b>	<b>Total</b>
	\$0	\$0	\$0	\$0	\$50	\$500	\$550

CIP Number: P2403

**PROJECT SCHEDULE:**

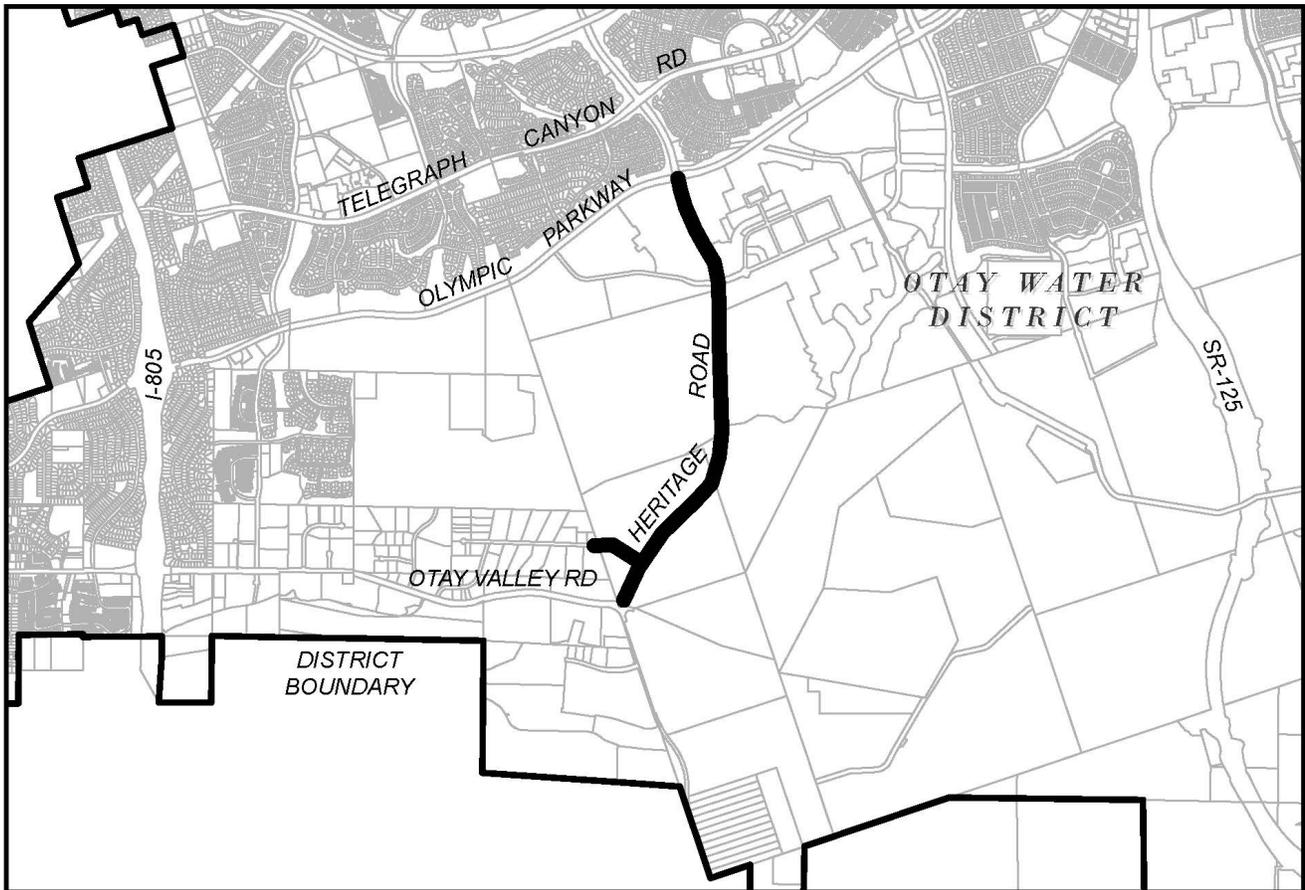
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	1/1/2006	6/1/2021	\$0
DESIGN:	7/1/2006	6/30/2022	\$0
CONSTRUCTION:	7/1/2021	6/30/2024	\$925

**PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):**

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

**PROJECT LOCATION:**

**OWD Map Book: 82**



**Submitted By:** Jolene Fielding

**Date:** 5/10/2016

**OTAY WATER DISTRICT  
CAPITAL IMPROVEMENT PROGRAM**

<b>PROJECT TITLE:</b> HWY 94 Upsized Utility Relocations at Melody Lane	<b>CIP Number:</b> P2556
<b>PROJECT MANAGER:</b> Stephen Beppler	<b>DIRECTOR DIVISION:</b> 5
<b>ORIGINAL APPROVED DATE:</b>	<b>I.D. LOCATION:</b> 22
<b>RELATED CIP PROJECTS:</b>	<b>PRIORITY:</b> 2
	<b>BUDGET AMOUNT:</b> \$100,000

**DESCRIPTION OF PROJECT:**

This project is for the upsized utility relocations required to accommodate the County of San Diego road improvement project along HWY 94 at Melody Lane. Facility relocations are for upsizing the existing 8-inch, 12-Inch, and 16-Inch potable water pipeline as needed to larger pipelines. This reimbursement is only for incremental pipeline cost due to upsize.

**JUSTIFICATION OF PROJECT:**

**COMMENTS:**

Cost Estimate:  
 \$20K - 8-inch to 16-inch upsize ~ 70 feet  
 \$120K - 12-inch to 16-inch upsize ~ 1,155 feet  
 \$0 - 16-inch relocation ~ 1,780 feet  
 \$75K- 12-inch to 16-inch upsize ~ 735 feet

**FUND DETAILS:**

FUNDING SOURCE:	Expansion	Betterment	Replacement	New Water Supply	Total
Replacement	0 %	0 %	100 %	0 %	100 %
<b>TOTAL:</b>	<b>0 %</b>	<b>0 %</b>	<b>100 %</b>	<b>0 %</b>	<b>100 %</b>

**EXPENDITURE SCHEDULE (X \$1,000):**

PRIOR YEARS:	FY						
TOTAL	2017	2018	2019	2020	2021	2022	Total
	\$0	\$1	\$99	\$0	\$0	\$0	\$100

CIP Number: P2556

PROJECT SCHEDULE:

PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2015	12/31/2016	\$1
DESIGN:	1/1/2017	9/30/2017	\$5
CONSTRUCTION:	10/1/2017	6/30/2018	\$94

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 205 & 309



Submitted By: Bob Kennedy

Date: 8/23/2016

<b>PROJECT TITLE:</b> RecPL - 20-Inch, 680 Zone, Village 2 - Heritage/La Media		<b>CIP Number:</b> R2084	
		<b>DIRECTOR DIVISION:</b>	1
<b>PROJECT MANAGER:</b>	Stephen Beppler	<b>I.D. LOCATION:</b>	22
<b>ORIGINAL APPROVED DATE:</b>	6/2/2004	<b>PRIORITY:</b>	2
<b>RELATED CIP PROJECTS:</b>	R2083, R2085	<b>BUDGET AMOUNT:</b>	\$365,000

**DESCRIPTION OF PROJECT:**

This project is for construction of approximately 2,000 feet of 20-inch pipeline within the 680 Pressure Zone in Village 2 in Santa Victoria Road from Santa Carolina Road to Santa Alexia Avenue.

**JUSTIFICATION OF PROJECT:**

This project will provide transmission capacity for the recycled water supply pumped from the 680-1 Pump Station to the 680 and higher pressure zones. Significant energy savings will occur due to lower total dynamic head requirements for the 680-1 Pump Station. Funding opportunity is the United States Bureau of Reclamation Water Reclamation and Reuse Program, Title XVI of P.L. 102-575.

**COMMENTS:**

This is a developer driven project. A reimbursement agreement is expected to be considered by the Board in FY 2017.

Developer budget is 2,000 LF at a cost of \$150 per foot for a total of \$300K.  
Inspection and staff budget is \$65K.  
This CIP budget was reduced from \$970K to \$365K for the FY 2017 CIP budget.

<b>FUND DETAILS:</b>					
FUNDING SOURCE:	Expansion	Betterment	Replacement	New Water Supply	Total
Expansion	100 %	0 %	0 %	0 %	100 %
<b>TOTAL:</b>	100 %	0 %	0 %	0 %	100 %

**EXPENDITURE SCHEDULE (X \$1,000):**

PRIOR YEARS:	FY	FY	FY	FY	FY	FY	FY	
TOTAL	2017	2018	2019	2020	2021	2022	Total	
	\$0	\$10	\$40	\$315	\$0	\$0	\$0	\$365

CIP Number: R2084

PROJECT SCHEDULE:

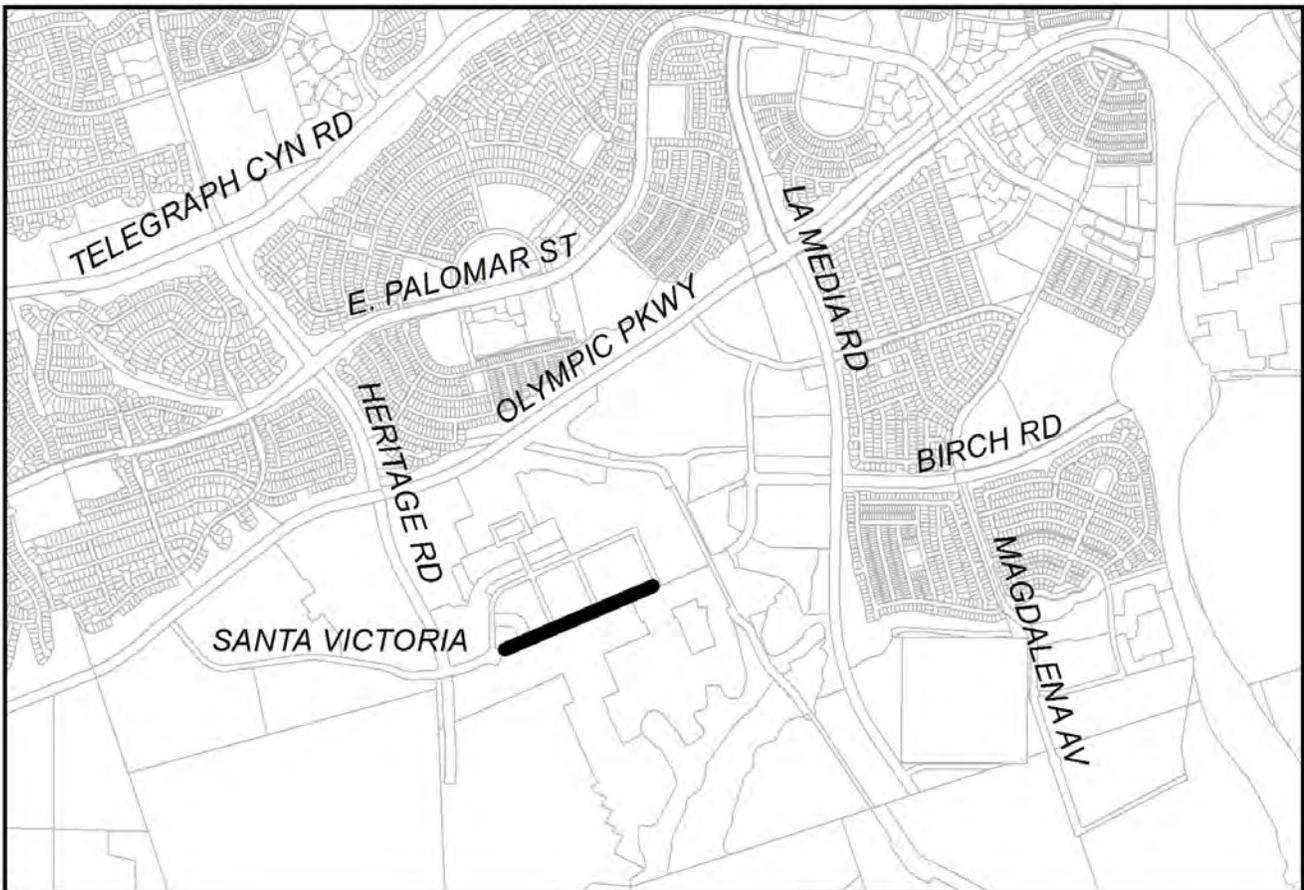
PROJECT PHASE:	ESTIMATED START DATE	ESTIMATED FINISHED DATE	ESTIMATED COST (X \$1,000):
PLANNING:	7/1/2004	6/30/2017	\$10
DESIGN:	7/1/2017	6/30/2018	\$40
CONSTRUCTION:	7/1/2018	6/30/2019	\$315

PROJECTED INCREMENTAL OPERATING EXPENDITURES SCHEDULE (\$):

	2017	2018	2019	2020	2021	2022	Total
MAINT:	\$0	\$0	\$1,900	\$1,900	\$1,900	\$1,900	\$7,600
ENERGY:	\$0	\$0	\$0	\$0	\$0	\$0	\$0
CHEMICAL:	\$0	\$0	\$0	\$0	\$0	\$0	\$0

PROJECT LOCATION:

OWD Map Book: 82



Submitted By: Bob Kennedy

Date: 5/12/2016

## ANNUAL CIP DEVELOPMENT POLICY No. 6

### PURPOSE

To define the policy on the preparation and approval of the annual Capital Improvement Program.

### BACKGROUND

District staff develops and maintains a Water Resources Master Plan (WRMP), an Integrated Water Resources Plan (IRP), and Strategic Plan that collectively are used to prepare the annual Capital Improvement Program (CIP) and to identify the CIP projects required for ultimate build out. The WRMP is revised every five years and adopted by the Board. Annually, staff prepares a six-year moving window CIP that provides information on budget assumptions, source of funds, allocation of funds, project costs, project location, description, justification, scheduling, etc. The six-year CIP is submitted and presented to the Board of Directors to obtain approval for staff to proceed with implementation to plan, design, and construct facilities and programs necessary to meet the needs of the District.

### POLICY

The General Manager, or his designee, shall prepare a proposed six-year CIP for submission to the Board of Directors for their review prior to and approval by June 30 of each fiscal year.

The CIP projects shall be reviewed and updated annually to consider appropriate revisions based on the most recent WRMP, IRP, Strategic Plan, and market condition information. The timing of projects shall be based on necessity and availability of financing. The intent is that new CIP projects will be installed as development requires the facilities. With regard to all CIP projects, it is acknowledged that compliance with the California Environmental Quality Act adds a measure of unpredictability with regard to the timing of CIP projects.

The WRMP, IRP, and the CIP projects shall be divided into two phases: Phase I - one to six years; and Phase II - seven to ultimate buildout. CIP project sheets for projects in Phase I shall be prepared and identify estimated total cost, cash expenditure timing, location, description, justification, funding allocation, and schedule. For the Phase II CIP projects, the CIP shall identify the need for the projects, along with their estimated total cost and funding allocation.

Upon approval by the Board of Directors of the annual six-year CIP, staff is authorized to proceed with planning, design, construction, etc. of those projects that have budgets within the current fiscal year. The General Manager is authorized to redistribute funds between approved CIP projects as long as the total fiscal year budget is not exceeded. In addition, the General Manager is authorized to exceed the budget for specific CIP projects under the following conditions:

- a. For CIP projects less than or equal to \$50,000, the cumulative amount of the specific CIP project expenditures does not exceed that authorized under Code of Ordinances Section 2.01, Authority of the General Manager.
- b. For CIP projects more than \$50,000, the amount being authorized does not exceed the lesser of 25% of the specific CIP project budget amount or that authorized under Code of Ordinances Section 2.01, Authority of the General Manager.
- c. The total fiscal year CIP budget is not exceeded.

## WATER METER CAPACITY FEES

Name	Capacity Fee <sup>(1)</sup>
Capacity Fee Section 28.01	\$8,287.95
Triad Capacity Fee	\$6,218.04
New Water Supply Fee	\$1,026.65

<sup>(1)</sup> This is based on a 3/4 inch water meter effective 7/1/2016.

Note: For a full listing of fees per meter size visit the District's website at:  
[www.otaywater.gov/engineering/public-services](http://www.otaywater.gov/engineering/public-services). Then select "Fees and Deposits".

## GLOSSARY

The Capital Budget contains terminology that is unique to public finance and budgeting. The following budget glossary provides assistance in understanding these terms.

**Acre-Foot:** The volume of water that will cover one acre to a depth of one foot. One acre-foot equals 435.6 units or 325,850 gallons.

**Annexation Fees:** Whenever water service is requested for land outside the boundaries of the District the land must first be annexed into the District. The annexation fee for water service was set at \$1,477 per EDU on July 1, 2009. Whenever sewer service is requested for land outside the boundaries of an improvement district (ID) the land must first be annexed into the ID. The fee for sewer annexation was set at \$3,819 on December 16, 1998. These base rates are adjusted quarterly according to a cost of living index. The rates as of July 1, 2014 are \$1,622 and \$5,986 for water and sewer, respectively.

**Assets:** Resources owned or held by the District that have monetary value.

**Availability Fees:** The District levies charges each year in developed areas to be used for general purposes for construction of facilities. This fee is levied in undeveloped areas to provide a source of funding for planning, mapping, and preliminary design of facilities to meet future development. Current legislation provides that any availability charge in excess of \$10.00 per acre shall be restricted only for the purpose of constructing facilities in the improvement district in which it was assessed.

**Betterment Fees:** In addition to other applicable water rates and charges, certain water customers pay a fee based on water service zone or improvement district. These are restricted for the use in the area where they are collected and may be used for the construction and maintenance of facilities.

**Betterment Fees for Maintenance:** The Operating Budget earns betterment fees for maintenance work performed on infrastructure within special betterment zones. Betterment fees are collected for the construction and maintenance of these specific assets.

**Capacity Fee:** A connection fee is charged when a new water meter is placed into service. This fee is a contribution of capital to either reimburse existing customers for the available capacity in the existing system, or to help finance planned future growth-related capacity improvements.

**Capacity Fee Revenues:** These fees are earned by the Operating Budget as the Engineering Department supports expansion functions.

## GLOSSARY

**Capital Budget:** The portion of the annual budget that appropriates funds for the purchase of capital equipment items and capital improvements. These expenditures are separated from regular operating items, such as salaries, utilities, and office supplies. The Capital Budget includes funds for capital equipment purchases over \$10,000, such as vehicles, furniture, machinery, computer systems, and special tools. The capital budget also includes funds for infrastructure related items over \$20,000 (as explained below) which are distinguished from operating items according to their value and projected useful life.

**Capital Equipment:** Fixed assets such as vehicles, equipment, furniture, technical instruments, etc. which have a life expectancy of more than two years and a value over \$10,000. This category may include items over \$20,000 that are infrastructure related items (this cost may not extend useful life of the water or sewer infrastructure, but without the purchase of the item, the whole asset is rendered useless, as described in the District's Capitalization Policy).

**Capital Improvement Program:** A long-range plan of the District for the construction, rehabilitation and modernization of the District-owned and operated infrastructure.

**CWA:** The County Water Authority was organized in 1944 under the State County Water Authority Act for the primary purpose of importing Colorado River water to augment the local water supplies of the Authority's member agencies. The Authority purchases water from MWD which imports water from the Colorado River and the State Water Project.

**Debt Service:** The District's obligation to pay the principal and interest of bonds and other debt instruments according to a predetermined payment schedule.

**Desalination:** The removal of dissolved minerals (including salts) from seawater or brackish water. Engineered water desalination processes, which produce potable water from seawater or brackish water, have become important because many regions throughout the world suffer from water shortages.

**Expenditures/Expenses:** These terms refer to the outflow of funds paid or to be paid for an asset, goods or services obtained regardless of when actually paid for. (Note: An encumbrance is not an expenditure). An encumbrance reserves funds to be expended in a future period.

**Fiscal Year:** Twelve-month term designating the beginning and ending period for recording financial transactions. The District has specified July 1 to June 30 as its fiscal year.

**Grants:** Contributions or gifts of cash or other assets from another governmental agency to be used or expended for a specified purpose, activity, or facility. Capital grants are restricted by the grantor for the acquisition and/or construction of fixed assets. Operating grants are restricted by

## GLOSSARY

the grantor for operating purposes or may be used for either capital or operating purposes at the discretion of the grantee.

**Interest Income:** Earnings from the investment portfolio. Per District Policy Number 25, interest income will be allocated to improvement districts each month based upon each fund's prior month-ending balance.

**Reserve Fund:** The District maintains Reserve Funds per the District's policy for both designated and restricted balances. Designated Reserve Funds are "general use" funds designated by the Board. Restricted reserves are those that are legally set aside for a particular purpose and cannot be used for any other purpose.

**Water Capacity Fees:** Charges paid by customers to connect to a District water system for potable or recycled water service. Fees are determined by multiplying the demand factor for the meter size by the total of the District-wide capacity fee and applicable zone charge.

## LIST OF ACRONYMS

AF	Acre-Foot/Feet
AMR	Automated Meter Reader/Reading
APCD	Air Pollution Control District
ASCE	American Society of Civil Engineers
AWWA	American Water Works Association
CEQA	California Environmental Quality Act
CIP	Capital Improvement Program
CMAA	Construction Management Association of America
CSI	California Solar Initiative
CWA	County Water Authority (San Diego)
FCF	Flow Control Facility
FY	Fiscal Year
GAAP	Generally Accepted Accounting Principles
GIS	Geographic Information System
GPS	Global Positioning System
HWD	Helix Water District
ID	Improvement District
IID	Imperial Irrigation District
IMS	Infrastructure Management System
IRP	Integrated Water Resources Plan
LOPS	Lower Otay Pump Station
MBR	Membrane Bioreactor
MG	Million Gallons
MGD	Million Gallons per Day
MWD	Metropolitan Water District
O&M or O/M	Operations and Maintenance
OIS	Otay Information System
PB	Pacific Bay
PL	Pipeline
PS	Pump Station
RWCWRF	Ralph W. Chapman Water Recycling Facility
SANDAG	San Diego Association of Governments
SCADA	Supervisory Control and Data Acquisition
SDCWA	San Diego County Water Authority
SVSD	Spring Valley Sanitation District
VCP	Vitrified Clay Pipe
WD	Water District
WRMP	Water Resources Master Plan
WTP	Water Treatment Plant

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