

# Capital Improvements Program

Fiscal Years 2023-2032

April 1, 2022



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# TAMPA BAY WATER

## Fiscal Years 2023 – 2032 Capital Improvements Program

### Board of Directors

February 2022

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**Barrie S. Buenaventura**, General Counsel, Conn & Buenaventura, P.A.

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**Warren Hogg**, Interim Chief Science and Technical Officer

**Christina Sackett**, Chief Financial Officer

**Michelle L. Stom**, Chief Public Affairs Officer

**Casey LaLomia**, Information Technology Director

**Roberta Kety**, Human Resources Director

## **Tampa Bay Water's Mission Statement, Vision Statement, and Strategic Goals**

### **MISSION STATEMENT**

Tampa Bay Water's mission is to reliably provides clean, safe water to the region now and for future generations.

### **VISION STATEMENT**

Tampa Bay Water's vision is to be the leader in supplying sustainable, quality water.

### **AGENCY STRATEGIC GOALS**

Goal 1 – Deliver Quality Water and Enhance System Reliability and Sustainability

Goal 2 – Continuously Improve Agency Operations

Goal 3 – Optimize Financial Stability and Sustainability

Goal 4 – Promote Open, Collaborative Relationships with Stakeholders

Goal 5 – Ensure an Engaged, Skilled and Adaptable Workforce

Goal 6 – Safeguard Agency Infrastructure

## Tampa Bay Water Overview

Tampa Bay Water, A Regional Water Supply Authority (the Agency), formerly West Coast Regional Water Supply Authority, was created on October 25, 1974 by enabling state legislation under Florida Statute Sections 163.01, 373.1962, and 373.1963. Tampa Bay Water is comprised of six member governments including: Hillsborough, Pasco, and Pinellas counties and the cities of St. Petersburg, Tampa, and New Port Richey. A Governance Study was adopted by the Florida Legislature in 1997 (the 1997 Legislation) amending Section 373.1963, Florida Statutes.

As part of the 1997 Legislation, the member governments entered into an Interlocal Agreement and a Master Water Supply Contract in 1998 for a term of 40 years creating Tampa Bay Water. Pursuant to the Amended and Restated Interlocal Agreement and Master Water Supply Contract, the Agency is required to meet the Quality Water needs of the member governments and to charge a uniform per-gallon wholesale rate to member governments for the wholesale supply of drinking water; with one exception for the City of Tampa. The Agency charges a separate rate to the City of Tampa for raw water delivered from the Tampa Bypass Canal to augment the City's reservoir.

Tampa Bay Water is governed by a nine-member board of directors from our six-member governments. The board includes two commissioners from each member county and the Mayor or a city-council representative from each member city.

The Agency provides quality drinking water to its six-member governments whose water service areas serve approximately 2.5 million residents in the Tampa Bay region. Water sources include groundwater, surface water, and desalinated seawater.

Tampa Bay Water is regulated by the Florida Department of Environmental Protection and the United States Environmental Protection Agency for matters related to drinking water quality and the operation and construction of its facilities. In addition, the Southwest Florida Water Management District (SWFWMD) regulates consumptive uses of water.

**Figure 1** shows the location of Tampa Bay Water's major Facilities and **Table 1** provides a list of Tampa Bay Water's major facilities, by Water Source.



**Figure 1: Tampa Bay Water Facilities**

**Table 1: Tampa Bay Water's Major Facilities**

Facility Type by Water Source	Facility Name
<b>Surface Water</b>	<ul style="list-style-type: none"> <li>• Alafia River Pump Station</li> <li>• C. W. Bill Young Regional Reservoir</li> <li>• Reservoir Off Stream Pump Station</li> <li>• South-Central Hillsborough Intertie Transmission Main</li> <li>• South-Central Hillsborough Booster Pump Station</li> <li>• Tampa Bay Regional Surface Water Treatment Plant</li> <li>• Tampa Bypass Canal Pump Station</li> </ul>
<b>Desalination</b>	<ul style="list-style-type: none"> <li>• Tampa Bay Seawater Desalination Plant</li> </ul>
<b>Groundwater</b>	<ul style="list-style-type: none"> <li>• Brandon Urban Dispersed Wells and Water Treatment Plants</li> <li>• Carrollwood and Eagles Wells</li> <li>• Cosme-Odessa Wellfield</li> <li>• Cross Bar Ranch Wellfield</li> <li>• Cypress Bridge Wellfield</li> <li>• Cypress Creek Wellfield and Water Treatment Plant</li> <li>• Eldridge-Wilde Wellfield and Hydrogen Sulfide Treatment Facility</li> <li>• Lake Bridge Water Treatment Plant</li> <li>• Morris Bridge Wellfield and Water Treatment Plant</li> <li>• Northwest Hillsborough Regional Wellfield</li> <li>• Section 21 Wellfield</li> <li>• South Pasco Wellfield and Water Treatment Plant</li> <li>• South-Central Hillsborough Regional Wellfield and Lithia Ozone Treatment Facility</li> <li>• Starkey Wellfield</li> </ul>
<b>Other Facilities</b>	<p>The water system also includes booster stations and approximately 100 miles of raw water collection mains and 150 miles of large-diameter potable water transmission mains.</p>



# CIP Planning Process

## **Purpose**

Tampa Bay Water's Capital Improvements Program (CIP) is a comprehensive ten-year plan and portfolio of previously approved and new proposed capital projects. The CIP is updated annually as the scope, needs and timing for specific projects change. Tampa Bay Water's Board of Directors annually accepts the CIP for implementation by agency staff.

The main objectives of the Capital Improvements Program Plan are:

- To improve Tampa Bay Water's financial stability by identifying capital needs, estimating funding needs including future bond issues, and identifying the effects on the operating budget;
- To maintain and improve Tampa Bay Water's infrastructure through the maintenance, repair, and replacement of existing assets; and
- To identify and implement short and long-term infrastructure needs/projects to meet the regions' future water demands.

## **Capital Project Definition**

Capital projects are those activities that will result in:

1. A capital asset owned by Tampa Bay Water, and/or
2. Major repairs, improvements, renovations, or expansions that extend an existing asset's useful life, and/or
3. A significant change in a facility's functionality or capacity.

Capital assets owned by Tampa Bay Water are recorded in Tampa Bay Water's financial records in accordance with generally accepted accounting principles and applicable Florida State Statutes.

Projects can also include projects that are:

1. Funded by Tampa Bay Water and/or others, for assets owned and operated by another entity.
2. Constructed by Tampa Bay Water for the benefit of member governments or other government agencies.

If Tampa Bay Water does not retain ownership of the completed project, the cost of the project is accounted as a contribution to the respective entity.

## **Identifying Capital Projects**

Projects in the Capital Improvements Program include projects with a total capital cost greater than \$200,000 that:

- Change the functionality and/or changes the capacity of an existing asset,
- Are identified in the Agency's Mitigation Phase 1 or the Long-term Master Water Plan.
- Require a Primary Environmental Permit or permit modification such as:
  - National Pollutant Discharge Elimination System Permit (NPDES)
  - Environmental Resource Permit (ERP)
  - Water Use Permit (WUP)
- Require property acquisition, easements, license agreements, and/or fee purchase.



## **CIP Development**

The Fiscal Years (FYs) 2023-2032 CIP Plan is an update to the FYs 2022-2031 CIP Plan accepted by the Board of Directors in June 2021.

### **Goals**

The following goals are used by agency staff to update the Capital Improvements Program Plan:

- Identify and prioritize capital projects through a coordinated departmental effort that integrates planning and development, engineering, construction, financing requirements, and future operating and maintenance costs.
- Develop a timeline and budget for each project.
- Develop a funding scenario for each project that identifies a funding source, a projected cash flow, and future operating and maintenance costs estimates.

### **Update Schedule**

The CIP Program Manager has the responsibility of managing the annual update of Tampa Bay Water's CIP Plan. The CIP update process runs from July through June as shown below.

**Figure 2: CIP Update Timeline**



### **Capital Projects Evaluation Criteria & Process Framework**

Tampa Bay Water utilizes a Multi-Attribute Utility Analysis (MUA) to determine a benefit score for each capital project. The benefit scores allow Tampa Bay Water to prioritize projects, allocate funding sources, assign staff, and determine project schedules. The evaluation criteria themselves are evaluated every 2-3 years by staff and if needed, updated to reflect the Agency's current Strategic Goals. Projects are re-evaluated every year until they reach the bidding or construction phases. The key features of the Evaluation Process are:

- Each criterion is defined and assigned a weight in a scale from zero (0) to one hundred (100).
- Each criterion is assigned a set of performance measures to assess the contribution of a project to meeting the identified criterion.
- Each performance measure is defined and receives a score on a scale from zero (0) to ten (10).
- A Benefit Score using the evaluation criteria and performance measures is calculated for each project.

The following equation is used to calculate the Benefit Score of each capital project.

$$\text{Benefit Score} = \frac{10}{\text{Total CW}} \times \sum [CW \times PM]$$

Where:

**CW**= Criterion Weights, **PM**= Performance Measure Score, **Total CW**= Total of Criterion Weights

The following sections and **Tables 3-8** provide criteria attributes and their Performance Measures.

**Table 2: Evaluation Criteria Weights**

Evaluation Criteria	Weight
Compliance	100
Level of Service	82
Health & Safety	82
Costs & Efficiencies	61
Environmental Enhancement	32

### **Compliance**

Attributes of Compliance include regulatory compliance/permits and contractual obligations. Compliance obligations include permit or regulatory agency requirements (e.g., consent order, administrative order, etc.). Contractual obligations include: a legal settlement; a property agreement; Memoranda of Understanding (MOU); Joint Project Agreement (JPA); and agency's governance documents (Master Water Supply Contract & Reinstated and Amended Interlocal Agreement).

**Table 3: Compliance Performance Measures**

Performance Measure	Score
Project does not contribute to compliance.	0
Project provides a minor level of support for compliance. <i>Will address obvious short-term or acute impacts.</i>	3
Project provides a moderate level of support for compliance. <i>Will reduce obvious short-term acute or chronic impacts.</i>	5
Project provides a significant level of support and improves compliance. <i>Will reduce short-term and addresses some chronic long-term impacts.</i>	7
Project is required for immediate known compliance issues. <i>Will reduce major factor(s) related to chronic long-term impacts.</i>	10

### Level of Service

Attributes of Level of Service include water quantity, water pressure, and water quality enhancement, raw water vs. finished water system (system priority/criticality), time without service, number of complaints, and public image.

**Table 4: Level of Service Performance Measures**

<b>Performance Measure</b>	<b>Score</b>
Project does not address customer level of service.	0
Project maintains customer level of service on a small scale. <i>Addresses less than 10% of system demands. Meeting Demand less than 10 MGD.</i>	3
Project maintains customer level of service on a sub-regional scale. <i>Addresses approximately 10 to 25% of system demands. Meeting Demand equal or greater than 10 MGD to less than 20 MGD.</i>	5
Project maintains customer level of service on a system-wide scale. <i>Addresses greater than approximately 25% of system demands. Meeting Demand equal or greater than 20 MGD to less than 40 MGD.</i>	7
Project improves or increases customer level of service on a system-wide scale. <i>Addresses greater than approximately 50% of system demands. Meeting Demand equal or greater than 40 MGD.</i>	10

### Health & Safety

Attributes of Health & Safety include safety of the public and agency employees (OSHA equivalent) and physical and cyber security.

**Table 5: Health & Safety Performance Measures**

<b>Performance Measure</b>	<b>Score</b>
Project does not address safety.	0
Project provides a minor level of reduction in risks to public or employee safety.	3
Project provides a moderate reduction in risks to public or employee safety, including possible lost time accident potential.	5
Project provides a significant reduction in risks to public or employee safety, including lost time accident potential.	7
Project addresses an immediate known risk to public or employee safety for lost time potential.	10

### **Cost & Efficiencies**

Attributes of Cost and Efficiencies include operations and maintenance (O&M) savings potential (staff time, money), O&M flexibility, and coordination with other internal projects.

**Table 6: Cost & Efficiencies Performance Measures**

<b>Performance Measure</b>	<b>Score</b>
Project causes an increase in net O&M costs.	0
Project has a neutral effect on net O&M costs.	3
Project provides a moderate reduction in net O&M costs OR creates opportunities for O&M efficiency/performance. <i>Reduction/ Opportunity benefit less than 10%.</i>	5
Project provides a moderate reduction in net O&M costs AND creates opportunities for O&M efficiency/performance. <i>Reduction/ Opportunity benefit less than 10%.</i>	7
Project provides a significant reduction in net O&M costs OR creates opportunities for O&M efficiency/performance. <i>Reduction/ Opportunity benefit greater than 10%.</i>	10

### **Environmental Enhancement**

Attributes of Environmental Enhancements include going above and beyond regulatory requirements, source water protection, minimizing carbon footprint, achieving energy efficiency, and includes a renewable energy component.

**Table 7: Environmental Enhancement Performance Measures**

<b>Performance Measure</b>	<b>Score</b>
Project does not provide environmental enhancement.	0
Project makes a minor contribution towards environmental enhancements.	3
Project makes a moderate contribution towards environmental enhancements.	5
Project makes a significant contribution towards environmental enhancements.	7
Project makes a significant contribution towards environmental enhancements beyond anticipated regulations.	10

## Capital Projects Sources

Tampa Bay Water's CIP includes projects from various sources, including:

### Tampa Bay Water

- Long-Term Master Water Supply Planning
- Systems Analysis and Reliability Considerations
- Energy Management Program
- Renewal and Replacement Program
- Property Redress
- Vulnerability Assessment
- Information Technology

### Member Governments

- Joint Project Agreements
- Memoranda of Understanding

### Regulatory/Compliance Requirements and other Commitments

- The Amended and Restated Interlocal Agreement
- The Master Water Supply Contract
- The Southwest Florida Water Management District (e.g., Phase 1 Mitigation)
- Florida Department of Environmental Protection
- Utility Acquisition(s)

## Capital Projects Sources Highlights

### Long-Term Master Water Supply Planning

The Amended and Restated Interlocal Agreement (referred to as the Interlocal Agreement) requires the Long-Term Master Water Plan be updated every five years. Master Water Plan Projects are developed through a water supply planning process, which is performed to ensure:

- The public has sufficient water supplies to meet its needs in an environmentally sustainable and cost-effective manner.
- Tampa Bay Water has sufficient water supply options in its Plan to meet the member governments' needs for at least 10 years; and
- Tampa Bay Water meets its unequivocal obligation to meet member governments' needs. It takes over 10 years to plan, permit, design, and build drinking water facilities.

Long-term water supply planning is conducted at least every five years, evaluating new water supply concepts as needed, and is the pool from which Long-Term Master Water Plan projects are drawn for further evaluation. As part of the planning process, demand projections are annually updated to facilitate new supplies being on-line in a timely manner, but not so far in advance as to unnecessarily burden the cost of water by overbuilding capacity.

In December 2007, an initial list of 300 potential projects was narrowed by the Board of Directors to a list of 17 candidate projects for further examination. In December 2008, the Board of Directors approved a list of seven projects, plus three studies, as the update to the Long-Term Master Water Plan. The Board approved the 2018 Long-term Master Water Plan at the December 2018 Board meeting. Along with the Plan, the Board approved recommendations to pursue further feasibility evaluations on the top three-ranked potential capital projects: Surface Water Treatment Plant Expansion, Tampa Bay Desalination Water Treatment Plant Expansion, and a new Wellfield, the South Hillsborough Wellfield (via SHARP credits), as well as activities identified under other

programs (Demand Management, Demand Forecast, Source Water Assessment and Protection). All these efforts will be performed over the next five-year planning cycle and will be incorporated into the 2023 Long-term Master Water Plan. The FYs 2023-2032 CIP includes a placeholder project “System Configuration III: New Water Supply-Placeholder” to identify future funding needs. The Board will select the new water supply project(s) by December 2022 followed by design, permitting, and construction.

#### Systems Analysis and Reliability Considerations

Tampa Bay Water staff updated the Systems Analysis of the Regional System, which includes improvement recommendations for capacity, connectivity, reliability, and back-up (piping, pumping, and power) systems based on projected operational needs through 2035. The next Systems Analysis of Regional System will be completed by 2023 and will identify needs through 2045.

#### Energy Management Program

Tampa Bay Water developed an Energy Management Program roadmap with a programmatic approach to improve energy efficiency through the implementation of several individual energy-saving and renewable projects, emerging technologies, and operational changes.

#### Renewal and Replacement Program

Tampa Bay Water’s Renewal and Replacement Program includes a prioritized long-term plan for the renewal, repair, or replacement of assets that will result in sustainable infrastructure. The Program identifies the required projects and their timing based on a risk-based approach that considers criticality, remaining useful life, and risk.

#### Phase 1 Mitigation Projects

The Phase 1 Mitigation Plan is an on-going program required by Tampa Bay Water’s Consolidated Water Use Permit. Its purpose is to provide long-term mitigation at wetland and lake sites that were impacted by historical groundwater pumpage at the central system wellfields and are predicted to not fully recover after the mandated groundwater pumpage cutback to 90 mgd. The Phase 1 Mitigation Plan currently includes a list of 21 mitigation projects.

## **Funding Overview**

Tampa Bay Water capital projects are funded through one or more funding sources. Funding is determined based on the type of project and funds availability.

### **Revenue Bonds**

Tampa Bay Water's current CIP is funded primarily through the issuance of Revenue Bonds for specific projects. Bond proceeds are placed in a restricted Construction Fund until disbursed for the intended purpose.

### **Capital Improvements Fund**

The Capital Improvements Fund (CIF) is funded by charges collected or other funds received, such as proceeds from the sale of surplus property. The Capital Improvements Fund may be used to fund any Board-approved Capital Project.

### **Renewal and Replacement Fund**

Tampa Bay Water is required to maintain a Renewal and Replacement Fund in an amount equal to five (5) percent of the prior fiscal year's Gross Revenue or such other amount as is certified by the Consulting Engineer in the Renewal and Replacement Fund. Funds used in the current year are collected the following year through the Uniform Rate. These funds are used to fund projects resulting from the Renewal and Replacement Program where major repairs or replacement of specific components are needed to maintain the service level of the water supply, treatment, and/or distribution system.

### **Energy Program Fund**

The Energy Fund Program receives revenue generated from an agreement with Tampa Electric's (TECO) Commercial Demand Response Program provider Enel X. The Program helps manages peak demand to reduce seasonal electricity demand peaks. Tampa Bay Water earns revenue quarterly by agreeing to reduce electricity consumption when TECO calls for a demand response event, i.e., the reduction of energy usage to lower peak demand. Projects funded with this funding source include projects that result in energy savings.

### **Other Funding Sources**

Tampa Bay Water also seeks and obtains available grant funding for its projects from the Southwest Water Management District (SWFWMD), the State of Florida, the U.S. Environmental Protection Agency, and other Federal grant programs, as well as Joint Project Agreements with member governments and other cooperative funding entities.

### **Uniform Rate Funds**

Uniform Rate Funds generally fund project evaluations, assessments, feasibility studies, and Phase 1 Mitigation projects. These funds are collected through the Uniform Rate.



## Grant Funded Projects

Table 8 identifies projects with current grants or co-funding agreements. The table identifies the grant funding entity, the expected funds to be received, funds received to date. Tampa Bay Water typically applies for State of Florida Grant Assistance thru the General Appropriations Act, Federal funding initiatives, and through the Southwest Water Management District (SWFWMD) Cooperative Funding Initiative (CFI).

**Table 8: Grant Funded Projects**

Project No.	Project Name	Funding Entity	Grant Maximum Total <sup>1</sup>	Reimbursed to Date	Transferred to Funding Source
01609	Southern Hillsborough County Supply Expansion: Booster Pump Station (Brandon Booster Station)	SWFWMD	\$ 3,800,000	\$ -	Capital Improvements Fund (CIF)
07010	Regional Facility Site Pump Station Expansion	SWFWMD	\$ 1,200,000	\$ 1,051,187	Capital Improvements Fund (CIF)
07072	Tampa Bypass Canal Gates Automation	SWFWMD	\$ 516,000	\$ 482,908	Capital Improvements Fund (CIF)
09014	Surface Water Treatment Plant Expansion: Feasibility	SWFWMD	\$275,000	\$ 250,023	Uniform Rate Funds
09015	Tampa Bay Desalination Water Treatment Plant Expansion: Feasibility	SWFWMD	\$1,500,000	\$ 1,134,100	Uniform Rate Funds
50016	Eldridge-Wilde WF Pumps & Motors Replacement	State	\$750,000	\$ -	Capital Improvements Fund (CIF)
<b>Totals</b>			<b>\$8,041,000</b>	<b>\$2,918,218</b>	

**Notes:**

1. Grant Maximum Total is the total funds awarded or requested by/to the funding entity. The total amount to be received could be less depending on the project's actual expenses for the awarded construction contract.

# Projected Capital Improvements Program Expenditures

The updated CIP includes a total of **89** projects at different phases with total projected future expenditures of **\$1,264,405,478** from the remainder of FY 2022 through end of FY 2032. **Figure 3** summarizes the planned expenditures for each funding source by Fiscal Year.

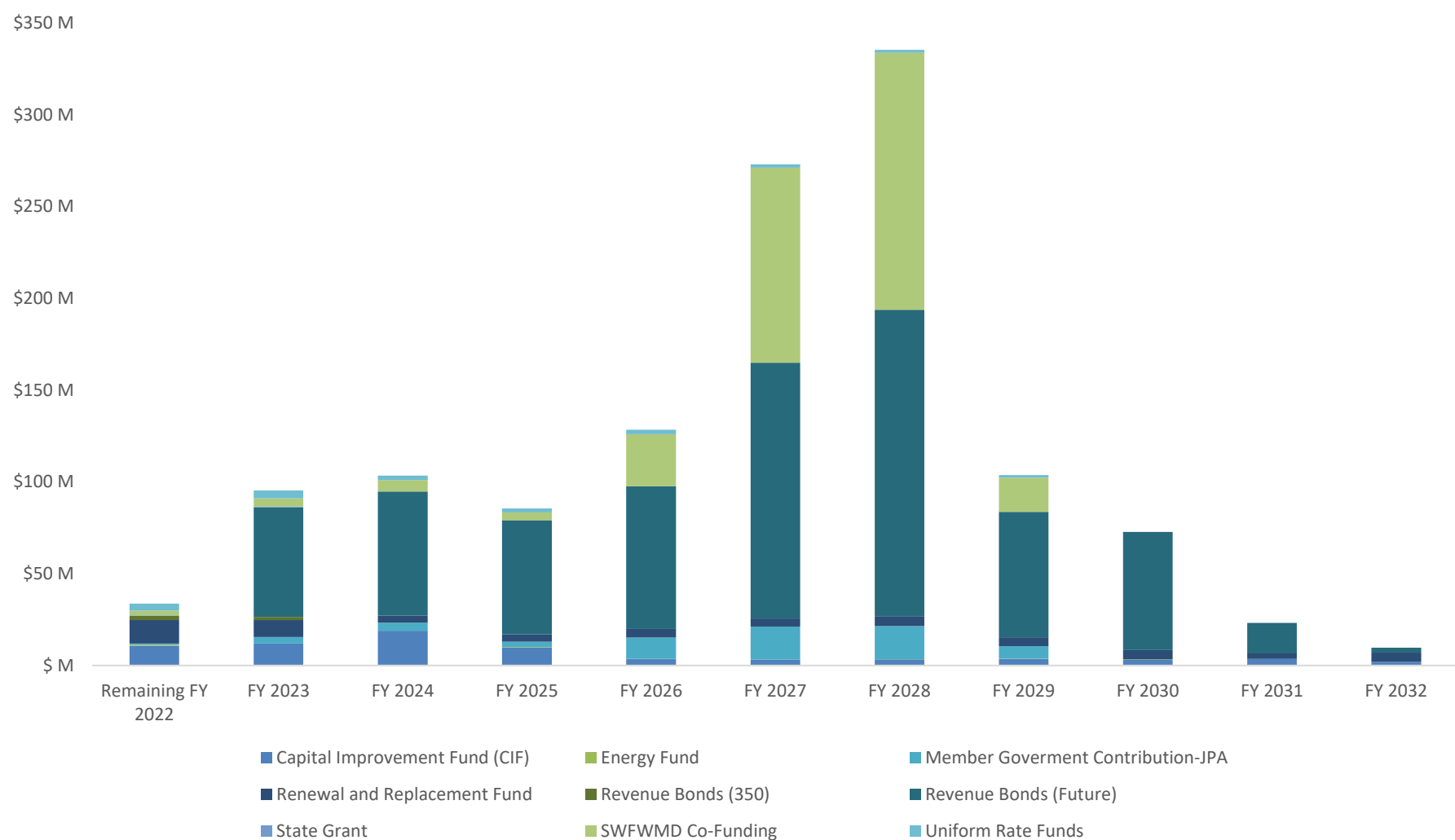


Figure 3: FYs 2022-2032 Planned Expenditures

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Table 9: Summary All Funding Sources: Projected Fund Expenditures and Remaining Balance by Fiscal Year

Funding Source	Current FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	Totals
<b>Capital Improvement Fund</b>													
Fund Projected Fiscal Year Beginning Balance	\$ 33,673,470	\$ 26,034,944	\$ 18,100,103	\$ 7,462,245	\$ 3,102,760	\$ 4,849,968	\$ 4,751,935	\$ 4,436,573	\$ 3,794,990	\$ 3,771,717	\$ 3,238,072	\$ 4,185,188	
Projected Total Funds to be Added During Fiscal Year	\$ 3,000,000	\$ 4,000,000	\$ 8,250,000	\$ 5,500,000	\$ 5,250,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ -	\$ 44,000,000
Projected Fund Expenditures by Fiscal Year	\$ (10,638,526)	\$ (11,934,841)	\$ (18,887,858)	\$ (9,859,485)	\$ (3,502,792)	\$ (3,098,033)	\$ (3,315,362)	\$ (3,641,583)	\$ (3,023,273)	\$ (3,533,645)	\$ (2,052,884)	\$ -	\$ (73,488,282)
<b>Projected Fund Fiscal Year Ending Balance</b>	<b>\$ 26,034,944</b>	<b>\$ 18,100,103</b>	<b>\$ 7,462,245</b>	<b>\$ 3,102,760</b>	<b>\$ 4,849,968</b>	<b>\$ 4,751,935</b>	<b>\$ 4,436,573</b>	<b>\$ 3,794,990</b>	<b>\$ 3,771,717</b>	<b>\$ 3,238,072</b>	<b>\$ 4,185,188</b>	<b>\$ 4,185,188</b>	
<b>Energy Fund</b>													
Fund Projected Fiscal Year Beginning Balance	\$ 616,213	\$ 161,184	\$ 346,184	\$ 531,184	\$ 435,637	\$ 514,184	\$ 699,184	\$ 855,929	\$ 897,667	\$ 813,184	\$ 998,184	\$ 1,183,184	
Projected Total Funds to be Added During Fiscal Year	\$ 114,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ -	\$ 1,964,000
Projected Fund Expenditures by Fiscal Year	\$ (569,029)	\$ -	\$ -	\$ (280,547)	\$ (106,453)	\$ -	\$ (28,255)	\$ (143,262)	\$ (269,483)	\$ -	\$ -	\$ -	\$ (1,397,029)
<b>Projected Fund Fiscal Year Ending Balance</b>	<b>\$ 161,184</b>	<b>\$ 346,184</b>	<b>\$ 531,184</b>	<b>\$ 435,637</b>	<b>\$ 514,184</b>	<b>\$ 699,184</b>	<b>\$ 855,929</b>	<b>\$ 897,667</b>	<b>\$ 813,184</b>	<b>\$ 998,184</b>	<b>\$ 1,183,184</b>	<b>\$ 1,183,184</b>	
<b>Member Government Contribution-JPA</b>													
Fund Projected Fiscal Year Beginning Balance	\$ 1,500,000	\$ 5,784,417	\$ 7,554,865	\$ 3,089,636	\$ 298,834	\$ 43,066,322	\$ 24,904,919	\$ 6,743,516	\$ -	\$ -	\$ -	\$ -	
Projected Total Funds to be Added During Fiscal Year	\$ 5,000,000	\$ 5,306,000	\$ -	\$ -	\$ 54,408,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 64,714,500
Projected Fund Expenditures by Fiscal Year	\$ (715,583)	\$ (3,535,552)	\$ (4,465,229)	\$ (2,790,802)	\$ (11,641,012)	\$ (18,161,403)	\$ (18,161,403)	\$ (6,743,516)	\$ -	\$ -	\$ -	\$ -	\$ (66,214,500)
<b>Projected Fund Fiscal Year Ending Balance</b>	<b>\$ 5,784,417</b>	<b>\$ 7,554,865</b>	<b>\$ 3,089,636</b>	<b>\$ 298,834</b>	<b>\$ 43,066,322</b>	<b>\$ 24,904,919</b>	<b>\$ 6,743,516</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	
<b>Renewal and Replacement Fund</b>													
Fund Projected Fiscal Year Beginning Balance	\$ 34,392,609	\$ 22,645,782	\$ 19,316,491	\$ 22,442,008	\$ 26,413,891	\$ 28,695,360	\$ 25,358,696	\$ 22,967,941	\$ 21,629,509	\$ 20,230,746	\$ 19,980,746	\$ 19,980,746	
Projected Total Funds to be Added During Fiscal Year	\$ 1,050,000	\$ 6,000,000	\$ 7,000,000	\$ 8,000,000	\$ 7,000,000	\$ 1,000,000	\$ 3,000,000	\$ 3,500,000	\$ 3,750,000	\$ 2,750,000	\$ 5,000,000	\$ -	\$ 48,050,000
Projected Fund Expenditures by Fiscal Year	\$ (12,796,827)	\$ (9,329,291)	\$ (3,874,483)	\$ (4,028,117)	\$ (4,718,531)	\$ (4,336,664)	\$ (5,390,755)	\$ (4,838,432)	\$ (5,148,763)	\$ (3,000,000)	\$ (5,000,000)	\$ -	\$ (62,461,863)
<b>Projected Fund Fiscal Year Ending Balance</b>	<b>\$ 22,645,782</b>	<b>\$ 19,316,491</b>	<b>\$ 22,442,008</b>	<b>\$ 26,413,891</b>	<b>\$ 28,695,360</b>	<b>\$ 25,358,696</b>	<b>\$ 22,967,941</b>	<b>\$ 21,629,509</b>	<b>\$ 20,230,746</b>	<b>\$ 19,980,746</b>	<b>\$ 19,980,746</b>	<b>\$ 19,980,746</b>	
<b>Revenue Bonds (350)</b>													
Fund Projected Fiscal Year Beginning Balance	\$ 3,935,276	\$ 1,606,269	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423	
Projected Total Funds to be Added During Fiscal Year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Projected Fund Expenditures by Fiscal Year	\$ (2,329,007)	\$ (1,584,846)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (3,913,853)
<b>Projected Fund Fiscal Year Ending Balance</b>	<b>\$ 1,606,269</b>	<b>\$ 21,423</b>	<b>\$ 21,423</b>	<b>\$ 21,423</b>	<b>\$ 21,423</b>	<b>\$ 21,423</b>	<b>\$ 21,423</b>	<b>\$ 21,423</b>	<b>\$ 21,423</b>	<b>\$ 21,423</b>	<b>\$ 21,423</b>	<b>\$ 21,423</b>	

Table 9: Summary All Funding Sources: Projected Fund Expenditures and Remaining Balance by Fiscal Year (Continued)

Funding Source	Current FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	Totals
Revenue Bonds (Future)													
Fund Projected Fiscal Year Beginning Balance	\$ -	\$ -	\$ 70,313,121	\$ 2,785,214	\$ 79,564,907	\$ 1,950,479	\$ 168,572,869	\$ 1,684,355	\$ 83,667,638	\$ 19,333,498	\$ 2,632,991	\$ 111	
Projected Total Funds to be Added During Fiscal Year	\$ -	\$ 130,000,000	\$ -	\$ 139,000,000	\$ -	\$ 306,000,000	\$ -	\$ 150,382,000	\$ -	\$ -	\$ -	\$ -	\$ 725,382,000
Projected Fund Expenditures by Fiscal Year	\$ -	\$ (59,686,879)	\$ (67,527,907)	\$ (62,220,307)	\$ (77,614,428)	\$ (139,377,610)	\$ (166,888,514)	\$ (68,398,717)	\$ (64,334,140)	\$ (16,700,507)	\$ (2,632,880)	\$ -	\$ (725,381,889)
Projected Fund Fiscal Year Ending Balance	\$ -	\$ 70,313,121	\$ 2,785,214	\$ 79,564,907	\$ 1,950,479	\$ 168,572,869	\$ 1,684,355	\$ 83,667,638	\$ 19,333,498	\$ 2,632,991	\$ 111	\$ 111	
State Grant													
Fund Projected Fiscal Year Beginning Balance	\$ -	\$ 43,066	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Projected Total Funds to be Added During Fiscal Year	\$ 344,232	\$ 405,768	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 750,000
Projected Fund Expenditures by Fiscal Year	\$ (301,166)	\$ (448,834)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ (750,000)
Projected Fund Fiscal Year Ending Balance	\$ 43,066	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
SWFWMD Co-Funding													
Fund Projected Fiscal Year Beginning Balance	\$ -	\$ 2,013,724	\$ 3,162,129	\$ 1,503,686	\$ 541,406	\$ 506,695	\$ 444,809	\$ 382,924	\$ 545,346	\$ 545,346	\$ 545,346	\$ 545,346	
Projected Total Funds to be Added During Fiscal Year	\$ 4,568,676	\$ 5,718,531	\$ 4,568,864	\$ 3,242,273	\$ 28,414,307	\$ 106,136,722	\$ 140,049,104	\$ 18,677,022	\$ -	\$ -	\$ -	\$ -	\$ 311,375,499
Projected Fund Expenditures by Fiscal Year	\$ (2,554,952)	\$ (4,570,126)	\$ (6,227,307)	\$ (4,204,553)	\$ (28,449,018)	\$ (106,198,608)	\$ (140,110,989)	\$ (18,514,600)	\$ -	\$ -	\$ -	\$ -	\$ (310,830,153)
Projected Fund Fiscal Year Ending Balance	\$ 2,013,724	\$ 3,162,129	\$ 1,503,686	\$ 541,406	\$ 506,695	\$ 444,809	\$ 382,924	\$ 545,346	\$ 545,346	\$ 545,346	\$ 545,346	\$ 545,346	
Uniform Rate Funds													
Fund Projected Fiscal Year Beginning Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Projected Total Funds to be Added During Fiscal Year	\$ 3,763,814	\$ 4,209,493	\$ 2,483,710	\$ 2,160,677	\$ 2,469,304	\$ 1,886,236	\$ 1,494,675	\$ 1,500,000	\$ -	\$ -	\$ -	\$ -	\$ 19,967,909
Projected Fund Expenditures by Fiscal Year	\$ (3,763,814)	\$ (4,209,493)	\$ (2,483,710)	\$ (2,160,677)	\$ (2,469,304)	\$ (1,886,236)	\$ (1,494,675)	\$ (1,500,000)	\$ -	\$ -	\$ -	\$ -	\$ (19,967,909)
Projected Fund Fiscal Year Ending Balance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
All Funding Sources													
Fund Projected Fiscal Year Beginning Balance	\$ 74,117,568	\$ 58,289,386	\$ 118,814,316	\$ 37,835,396	\$ 110,378,858	\$ 79,604,431	\$ 224,753,835	\$ 37,092,661	\$ 110,556,573	\$ 44,715,916	\$ 27,416,764	\$ 25,916,000	
Projected Total Funds to be Added During Fiscal Year	\$ 17,840,722	\$ 155,824,792	\$ 22,487,574	\$ 158,087,950	\$ 97,727,111	\$ 418,207,958	\$ 147,728,779	\$ 177,244,022	\$ 6,935,000	\$ 5,935,000	\$ 8,185,000	\$ -	\$ 1,216,203,908
Projected Fund Expenditures by Fiscal Year	\$ (33,668,904)	\$ (95,299,862)	\$ (103,466,494)	\$ (85,544,488)	\$ (128,501,538)	\$ (273,058,554)	\$ (335,389,953)	\$ (103,780,110)	\$ (72,775,659)	\$ (23,234,152)	\$ (9,685,764)	\$ -	\$ (1,264,405,478)
Projected Fund Fiscal Year Ending Balance	\$ 58,289,386	\$ 118,814,316	\$ 37,835,396	\$ 110,378,858	\$ 79,604,431	\$ 224,753,835	\$ 37,092,661	\$ 110,556,573	\$ 44,715,914	\$ 27,416,764	\$ 25,916,000	\$ 25,916,000	

Table 10: Capital Improvement Fund (CIF): Projected Fund Expenditures and Remaining Balance by Fiscal Year

	Current Balance as of 12/31/2021	10-Yr Projected Beginning Balance										
	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future
Fund Projected Fiscal Year Beginning Balance	\$ 33,673,470	\$ 26,034,944	\$ 18,100,103	\$ 7,462,245	\$ 3,102,760	\$ 4,849,968	\$ 4,751,935	\$ 4,436,573	\$ 3,794,990	\$ 3,771,717	\$ 3,238,072	\$ 4,185,188
Projected Total Funds to be Added During Fiscal Year	\$ 3,000,000	\$ 4,000,000	\$ 8,250,000	\$ 5,500,000	\$ 5,250,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ 3,000,000	\$ -

			10-Yr Projected Fund Expenditures by Fiscal Year												
Project No.	Project Name	Actuals Thru End of Quarter	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	Total Funds Needed
	South Hillsborough Wellfield-Phase 1	\$ -	\$ 174,118	\$ 565,356	\$ 9,935,056	\$ 4,325,470	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,000,000
01602	Cypress Creek WF Pumps and Motors	\$ -	\$ 253,191	\$ 441,809	\$ 252,548	\$ 491,863	\$ 55,588	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,494,999
01604	Eldridge Wilde Wellfield Treatment Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 382,795	\$ 931,652	\$ 861,190	\$ 913,387	\$ 1,533,645	\$ 52,884	\$ -	\$ 4,675,553
01609	Southern Hillsborough County Supply Expansion-Booster Pump Station (Brandon Booster Station)	\$ 970,581	\$ 4,037,020	\$ 6,382,939	\$ 3,273,741	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 13,693,700
01610	Southern Hillsborough County Supply Expansion-Pipeline Segment A	\$ 353,517	\$ 905,114	\$ 1,243,541	\$ 882,748	\$ 490,362	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,521,765
06004	Tampa Bay Desalination Plant Reverse Osmosis Trench Supports	\$ -	\$ -	\$ 18,541	\$ 83,084	\$ 239,376	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 341,001
07007	Cypress Creek WTP Chemical System Upgrades	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 75,916	\$ 125,603	\$ 492,595	\$ 109,886	\$ -	\$ -	\$ -	\$ 804,000
07010	Regional Facility Site Pump Station Expansion	\$ 2,421,420	\$ 241,443	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 241,443
07029	Cypress Creek Water Treatment Plant Drainage Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 44,946	\$ 106,790	\$ 192,890	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 344,626
07030	Cypress Creek Roads and Security Upgrades	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 43,667	\$ 45,696	\$ 398,149	\$ 85,038	\$ -	\$ -	\$ -	\$ -	\$ 572,550
07032	Tampa Bay Desalination Facility Intake Connection Improvements-Phase 1	\$ 1,607,333	\$ 15,334	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 15,334
07033	Tampa Bay Desalination Facility Intake Connection Improvements-Phase 2	\$ -	\$ 965,122	\$ 1,352,748	\$ 1,388,709	\$ 98,421	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,805,000
07061	South Pasco Wellfield Underground Commercial Powerline	\$ -	\$ 7,013	\$ 77,169	\$ 197,785	\$ 1,191,604	\$ 552,430	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,026,001
07064	Ground Storage Tanks Fall Protection	\$ -	\$ -	\$ -	\$ 26,475	\$ 70,525	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 97,000
07065	Maytum Vault Confined Space Removal	\$ -	\$ -	\$ -	\$ -	\$ 107,621	\$ 36,082	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 143,703
07072	Tampa Bypass Canal Gates Automation	\$ 1,220,056	\$ 172,964	\$ 7,579	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 180,543
07100	Future-Information Technology-Placeholder	\$ -	\$ -	\$ -	\$ 1,100,000	\$ 1,100,000	\$ 1,100,000	\$ 1,125,000	\$ 1,125,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ -	\$ 13,550,000

Table 10: Capital Improvement Fund (CIF): Projected Fund Expenditures and Remaining Balance by Fiscal Year (Continued)

Project No.	Project Name	Actuals Thru End of Quarter	10-Yr Projected Fund Expenditures by Fiscal Year												Total Funds Needed
			FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	
07131	Cosme Water Treatment Plant Yard Piping Improvements	\$ 36,875	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
07602	SCADA-Wireless Units Upgrade	\$ -	\$ -	\$ 73,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 73,000
07603	SCADA-Software Features	\$ -	\$ 95,788	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 95,788
07604	SCADA-Field Communications Security	\$ 215,257	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
07605	SCADA-System Monitoring	\$ -	\$ -	\$ 724,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 724,000
07606	SCADA-Management Cluster and HADA Enhancements	\$ -	\$ 239,024	\$ 544,976	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 784,000
07608	SCADA-Quality Assurance Enhancements	\$ -	\$ -	\$ 121,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 121,000
50016	Eldridge-Wilde WF Pumps & Motors Replacement	\$ 810,030	\$ 3,099,913	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,099,913
50047	Morris Bridge Chemical Piping Replacement	\$ -	\$ 17,481	\$ 103,296	\$ 267,759	\$ 854,126	\$ 484,339	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,727,001
50048	BUD 5 Chemical Piping Replacement	\$ -	\$ -	\$ 136,057	\$ 354,965	\$ 525,496	\$ 173,482	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,190,000
50056	South Pasco Transmission Main Pipe Repair	\$ -	\$ -	\$ -	\$ 169,917	\$ 111,283	\$ 970,406	\$ 207,754	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,459,360
50060	Keller Hydrogen Sulfide Facility Roofing Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 241,240	\$ 202,760	\$ -	\$ -	\$ -	\$ -	\$ 444,000
50061	Odessa Booster Station Pumps Replacement	\$ -	\$ -	\$ -	\$ -	\$ 6,239	\$ 41,852	\$ 1,154,082	\$ 300,828	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,503,001
50071	Cypress Creek Pump Station Variable Frequency Drives	\$ -	\$ -	\$ 142,830	\$ 955,071	\$ 247,099	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,345,000
52004	C.W. Bill Young Regional Reservoir Solar Energy System	\$ 39,290	\$ 415,001	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 415,001
	Totals	\$ 7,674,359	\$ 10,638,526	\$ 11,934,841	\$ 18,887,858	\$ 9,859,485	\$ 3,502,792	\$ 3,098,033	\$ 3,315,362	\$ 3,641,583	\$ 3,023,273	\$ 3,533,645	\$ 2,052,884	\$ -	\$ 73,488,282
			FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	
Projected Fund Fiscal Year Ending Balance			\$ 26,034,944	\$ 18,100,103	\$ 7,462,245	\$ 3,102,760	\$ 4,849,968	\$ 4,751,935	\$ 4,436,573	\$ 3,794,990	\$ 3,771,717	\$ 3,238,072	\$ 4,185,188	\$ 4,185,188	



Table 11: Energy Fund: Projected Fund Expenditures and Remaining Balance by Fiscal Year

	Current Balance as of 12/31/2021	10-Yr Projected Beginning Balance										
	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future
Fund Projected Fiscal Year Beginning Balance	\$ 616,213	\$ 161,184	\$ 346,184	\$ 531,184	\$ 435,637	\$ 514,184	\$ 699,184	\$ 855,929	\$ 897,667	\$ 813,184	\$ 998,184	\$ 1,183,184
Projected Total Funds to be Added During Fiscal Year	\$ 114,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ 185,000	\$ -

			10-Yr Projected Fund Expenditures by Fiscal Year												
Project No.	Project Name	Actuals Thru End of Quarter	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	Total Funds Needed
50063	BUD Wells Pumps and Motors Replacement	\$ -	\$ -	\$ -	\$ -	\$ 280,547	\$ 106,453	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 387,000
52004	C.W. Bill Young Regional Reservoir Solar Energy System	\$ 372,351	\$ 569,029	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 569,029
52005	Tampa-Hillsborough Interconnect Pump Station	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 28,255	\$ 143,262	\$ 269,483	\$ -	\$ -	\$ -	\$ 441,000
	Totals	\$ 372,351	\$ 569,029	\$ -	\$ -	\$ 280,547	\$ 106,453	\$ -	\$ 28,255	\$ 143,262	\$ 269,483	\$ -	\$ -	\$ -	\$ 1,397,029
			FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	
Projected Fund Fiscal Year Ending Balance			\$ 161,184	\$ 346,184	\$ 531,184	\$ 435,637	\$ 514,184	\$ 699,184	\$ 855,929	\$ 897,667	\$ 813,184	\$ 998,184	\$ 1,183,184	\$ 1,183,184	

Table 12: Member Government Contribution (Joint Project Agreement): Projected Fund Expenditures and Remaining Balance by Fiscal Year

	Current Balance as of 12/31/20	10-Yr Projected Beginning Balance											
	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	
Fund Projected Fiscal Year Beginning Balance	\$ 1,500,000	\$ 5,784,417	\$ 7,554,865	\$ 3,089,636	\$ 298,834	\$ 43,066,322	\$ 24,904,919	\$ 6,743,516	\$ -	\$ -	\$ -	\$ -	
Projected Total Funds to be Added During Fiscal Year	\$ 5,000,000	\$ 5,306,000	\$ -	\$ -	\$ 54,408,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

			10-Yr Projected Fund Expenditures by Fiscal Year												
Project No.	Project Name	Actuals Thru End of Quarter	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	Total Funds Needed
01616	Southern Hillsborough County Supply Expansion-Pipeline Segment B	\$ -	\$ 715,583	\$ 3,535,552	\$ 4,465,229	\$ 2,790,802	\$ 11,641,012	\$ 18,161,403	\$ 18,161,403	\$ 6,743,516	\$ -	\$ -	\$ -	\$ -	\$ 66,214,500
	Totals	\$ -	\$ 715,583	\$ 3,535,552	\$ 4,465,229	\$ 2,790,802	\$ 11,641,012	\$ 18,161,403	\$ 18,161,403	\$ 6,743,516	\$ -	\$ -	\$ -	\$ -	\$ 66,214,500
			FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	
Projected Fund Fiscal Year Ending Balance			\$ 5,784,417	\$ 7,554,865	\$ 3,089,636	\$ 298,834	\$ 43,066,322	\$ 24,904,919	\$ 6,743,516	\$ -	\$ -	\$ -	\$ -	\$ -	

Table 13: Renewal & Replacement (R&R): Projected Fund Expenditures and Remaining Balance by Fiscal Year

			Current Balance as of 12/31/2021	10-Yr Projected Beginning Balance											
			FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	
Fund Projected Fiscal Year Beginning Balance			\$ 34,392,609	\$ 22,645,782	\$ 19,316,491	\$ 22,442,008	\$ 26,413,891	\$ 28,695,360	\$ 25,358,696	\$ 22,967,941	\$ 21,629,509	\$ 20,230,746	\$ 19,980,746	\$ 19,980,746	
Projected Total Funds to be Added During Fiscal Year			\$ 1,050,000	\$ 6,000,000	\$ 7,000,000	\$ 8,000,000	\$ 7,000,000	\$ 1,000,000	\$ 3,000,000	\$ 3,500,000	\$ 3,750,000	\$ 2,750,000	\$ 5,000,000	\$ -	
			10-Yr Projected Fund Expenditures by Fiscal Year												
Project No.	Project Name	Actuals Thru End of Quarter	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	Total Funds Needed
01700	Future-Renewal & Replacement-Placeholder	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 750,000	\$ 2,500,000	\$ 3,000,000	\$ 5,000,000	\$ -	\$ 11,250,000
07070	TBC MLK Pumps Refurbishment	\$ -	\$ -	\$ 110,458	\$ 259,725	\$ 240,818	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 611,001
50016	Eldridge-Wilde WF Pumps and Motors Replacement	\$ 1,246,978	\$ 123,015	\$ 194,261	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 317,276
50021	Morris Bridge WF Improvements	\$ 576,044	\$ 820,705	\$ 488,753	\$ 462,060	\$ 327,514	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,099,032
50023	Starkey Wellfield Improvements	\$ 70,409	\$ -	\$ 251,100	\$ 399,852	\$ 568,900	\$ 1,295,069	\$ 1,295,069	\$ 1,295,069	\$ 178,630	\$ -	\$ -	\$ -	\$ -	\$ 5,283,689
50031	Cypress Bridge Wellfield Improvements	\$ 666,694	\$ 3,644,498	\$ 3,695,724	\$ 6,730	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 7,346,952
50040	Eldridge Wilde WF Underground Powerline	\$ 2,017,772	\$ 931,140	\$ 1,132,070	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,063,210
50041	Northwest Hillsborough Wellfield Improvements	\$ 1,856	\$ -	\$ 343,907	\$ 605,144	\$ 775,117	\$ 2,024,051	\$ 1,967,381	\$ 275,400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,991,000
50042	Cosme-Odessa Wellfield Improvements	\$ -	\$ -	\$ 1,169	\$ 278,033	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 279,202
50046	Lake Bridge Chemical Piping Replacement	\$ -	\$ 257,422	\$ 647,578	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 905,000
50049	High Service Pump Station Chemical Piping Replacement	\$ 16,280	\$ 120,393	\$ 961,521	\$ 7,105	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,089,019
50051	Cypress Creek Water Treatment Plant Chemical Piping Replacement	\$ -	\$ 160,949	\$ 229,420	\$ 340,812	\$ 116,819	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 848,000
50052	High Service Pump Station Ball Valve Replacement	\$ 19,980	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
50055	Tampa Bay Desalination VFDs Replacement	\$ 426,229	\$ -	\$ -	\$ 492,029	\$ 1,585,426	\$ 352,317	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,429,772
50057	Tampa Bay Desalination Plant Belt Filter Press Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 29,977	\$ 814,562	\$ 353,461	\$ -	\$ -	\$ -	\$ 1,198,000

Table 13: Renewal & Replacement (R&R): Projected Fund Expenditures and Remaining Balance by Fiscal Year (Continued)

			10-Yr Projected Fund Expenditures by Fiscal Year												
Project No.	Project Name	Actuals Thru End of Quarter	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	Total Funds Needed
50058	Tampa Bay Desalination Plant Piping Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 214,208	\$ 494,792	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 709,000
50059	Harney Pump Station Pumps and Motors Replacement	\$ 68,268	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
50063	BUD Wells Pumps and Motors Replacement	\$ -	\$ -	\$ -	\$ 130,882	\$ 156,118	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 287,000
50066	High Service Pump Station and Cypress Creek Water Treatment Plant Diesel Piping Improvements	\$ 168,755	\$ 374,077	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 374,077
50067	TBC TM Cathodic Protection	\$ 69,283	\$ 192,526	\$ 293,191	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 485,717
50068	Keller Hydrogen Sulfide Aeration Blowers	\$ -	\$ -	\$ -	\$ -	\$ 71,977	\$ 290,023	\$ 24,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 386,000
50069	Repump Station Generator	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 81,750	\$ 151,250	\$ -	\$ -	\$ -	\$ 233,000
50070	Repump Station Variable Frequency Drives	\$ -	\$ -	\$ -	\$ 29,436	\$ 185,428	\$ 680,492	\$ 101,644	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 997,000
50074	C.W. Bill Young Regional Reservoir-Compressors Replacement	\$ -	\$ 119,000	\$ 633,502	\$ 636,498	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,389,000
50075	Surface Water Treatment Plant-Renewal and Replacement Program	\$ -	\$ 4,770,257	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,955,457	\$ 3,013,490	\$ 2,144,052	\$ -	\$ -	\$ -	\$ 12,883,256
50076	C.W. Bill Young Regional Reservoir-Dissolved Air Lines Replacement	\$ -	\$ 39,186	\$ 346,637	\$ 226,177	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 612,000
50077	Repump Station Raw Water Line Valve Repair	\$ 49,487	\$ 1,009,415	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,009,415
50078	Tampa Bay Desalination Finished Water Line Repair	\$ 663,884	\$ 234,244	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 234,244
52002	Carrollwood Pumps and Motors Refurbishment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 402,200	\$ 20,800	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 423,000
52003	Lake Bridge Pumps and Motors	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 76,579	\$ 332,162	\$ 319,260	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 728,001
	Totals	\$ 6,061,919	\$ 12,796,827	\$ 9,329,291	\$ 3,874,483	\$ 4,028,117	\$ 4,718,531	\$ 4,336,664	\$ 5,390,755	\$ 4,838,432	\$ 5,148,763	\$ 3,000,000	\$ 5,000,000	\$ -	\$ 62,461,863
			FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	
Projected Fund Fiscal Year Ending Balance			\$ 22,645,782	\$ 19,316,491	\$ 22,442,008	\$ 26,413,891	\$ 28,695,360	\$ 25,358,696	\$ 22,967,941	\$ 21,629,509	\$ 20,230,746	\$ 19,980,746	\$ 19,980,746	\$ 19,980,746	

Table 14: Revenue Bonds (350): Projected Fund Expenditures and Remaining Balance by Fiscal Year

	Current Balance as of 12/31/2021	10-Yr Projected Beginning Balance										
	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future
Fund Projected Fiscal Year Beginning Balance	\$ 3,935,276	\$ 1,606,269	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423
Projected Total Funds to be Added During Fiscal Year	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

			10-Yr Projected Fund Expenditures by Fiscal Year												
Project No.	Project Name	Actuals Thru End of Quarter	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	Total Funds Needed
01615	South Pasco Water Treatment Plant Caustic Feed System	\$ 250,109	\$ 1,315,400	\$ 74,244	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,389,644
07005	South Pasco Wellfield and Treatment Improvements	\$ 81,063	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
07131	Cosme Water Treatment Plant Yard Piping Improvements	\$ 35,297	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
50016	Eldridge-Wilde WF Pumps & Motors Replacement	\$ 2,456,646	\$ 1,013,607	\$ 1,510,602	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,524,209
50040	Eldridge Wilde WF Underground Powerline	\$ 58,211	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Totals	\$ 2,881,326	\$ 2,329,007	\$ 1,584,846	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,913,853
			FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	
Projected Fund Fiscal Year Ending Balance			\$ 1,606,269	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423	\$ 21,423	

Table 15: Revenue Bonds (Future): Projected Fund Expenditures and Remaining Balance by Fiscal Year

	Current Balance as of 12/31/2021	10-Yr Projected Beginning Balance										
	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future
Fund Projected Fiscal Year Beginning Balance	\$ -	\$ -	\$ 70,313,121	\$ 2,785,214	\$ 79,564,907	\$ 1,950,479	\$ 168,572,869	\$ 1,684,355	\$ 83,667,638	\$ 19,333,498	\$ 2,632,991	\$ 111
Projected Total Funds to be Added During Fiscal Year	\$ -	\$ 130,000,000	\$ -	\$ 139,000,000	\$ -	\$ 306,000,000	\$ -	\$ 150,382,000	\$ -	\$ -	\$ -	\$ -

10-Yr Projected Fund Expenditures by Fiscal Year															
Project No.	Project Name	Actuals Thru End of Quarter	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	Total Funds Needed
	Water Quality Improvements Program- Placeholder	\$ -	\$ -	\$ 37,148,387	\$ 38,785,098	\$ 38,487,515	\$ 41,691,570	\$ 41,691,570	\$ 40,891,860	\$ 54,843,919	\$ 55,056,081	\$ -	\$ -	\$ -	\$ 348,596,000
01602	Cypress Creek WF Pumps and Motors	\$ -	\$ -	\$ -	\$ 1,310,925	\$ 2,944,604	\$ 260,471	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,516,000
01603	Cypress Creek WTP Yard Piping Valves	\$ -	\$ -	\$ -	\$ -	\$ 97,973	\$ 407,899	\$ 298,128	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 804,000
01604	Eldridge Wilde Wellfield Treatment Improvements	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 9,278,059	\$ 16,700,507	\$ 2,632,880	\$ -	\$ 28,611,446
01605	Morris Bridge Underground Powerline	\$ -	\$ -	\$ 156,000	\$ 145,042	\$ 150,985	\$ 1,973,322	\$ 1,831,652	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,257,001
01606	S21 WF Pumps and Motors	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 799,893	\$ 360,107	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,160,000
01610	Southern Hillsborough County Supply Expansion-Pipeline Segment A	\$ -	\$ -	\$ 3,237,461	\$ 5,504,761	\$ 3,488,309	\$ 16,523,024	\$ 25,777,891	\$ 25,777,891	\$ 9,569,881	\$ -	\$ -	\$ -	\$ -	\$ 89,879,218
01614	Alafia Pump Station Motors	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 834,023	\$ 1,234,977	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 2,069,000
06321	South Operations and Maintenance Building	\$ -	\$ -	\$ 1,727	\$ 19,594	\$ 19,594	\$ 95,200	\$ 672,198	\$ 668,189	\$ 85,500	\$ -	\$ -	\$ -	\$ -	\$ 1,562,002
07005	South Pasco Wellfield and Treatment Improvements	\$ -	\$ -	\$ 283,492	\$ 660,638	\$ 1,422,210	\$ 4,584,160	\$ 4,109,936	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11,060,436
07033	Tampa Bay Desalination Facility Intake Connection Improvements-Phase 2	\$ -	\$ -	\$ 6,291,132	\$ 6,343,998	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,635,130
07062	Cypress Creek and HSPS Fiber Optic tie- in	\$ -	\$ -	\$ -	\$ -	\$ 309,000	\$ 267,356	\$ 219,530	\$ 2,143,902	\$ 1,698,212	\$ -	\$ -	\$ -	\$ -	\$ 4,638,000
07070	TBC MLK Pumps Refurbishment	\$ -	\$ -	\$ 212,057	\$ 498,621	\$ 462,322	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,173,000
07131	Cosme Water Treatment Plant Yard Piping Improvements	\$ -	\$ -	\$ 198,129	\$ 265,189	\$ 265,189	\$ 133,102	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 861,609
50016	Eldridge-Wilde WF Pumps & Motors Replacement	\$ -	\$ -	\$ 3,995,417	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,995,417

Table 15: Revenue Bonds (Future): Projected Fund Expenditures and Remaining Balance by Fiscal Year (Continued)

Project No.	Project Name	Actuals Thru End of Quarter	10-Yr Projected Fund Expenditures by Fiscal Year												
			FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	Total Funds Needed
50021	Morris Bridge WF Improvements	\$ -	\$ -	\$ 2,511,235	\$ 4,615,721	\$ 3,271,680	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10,398,636
50022	Morris Bridge Booster Station Pumps 1 and 2 Replacement	\$ -	\$ -	\$ -	\$ 83,640	\$ 222,811	\$ 3,149,113	\$ 213,436	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,669,000
50037	Cypress Creek WTP Stationary Generators	\$ -	\$ -	\$ -	\$ 442,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 442,000
50042	Cosme-Odesa Wellfield Improvements	\$ -	\$ -	\$ -	\$ -	\$ 3,650,264	\$ 1,798,534	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,448,798
50043	Cypress Creek Headwall Erosion Repair	\$ -	\$ -	\$ -	\$ 346	\$ 2,101	\$ 2,101	\$ 325,827	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 330,375
50051	Cypress Creek Water Treatment Plant Chemical Piping Replacement	\$ -	\$ -	\$ 238,974	\$ 3,118,615	\$ 905,410	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 4,262,999
50052	High Service Pump Station Ball Valve Replacement	\$ -	\$ -	\$ 51,037	\$ 529,573	\$ 954,150	\$ 51,180	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,585,940
50056	South Pasco Transmission Main Pipe Repair	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 207,755	\$ 181,885	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 389,640
50059	Harney Pump Station Pumps and Motors Replacement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 285,887	\$ 320,113	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 606,000
50062	Tampa Bay Desalination Pipeline Reliability - Phase II	\$ -	\$ -	\$ -	\$ 8,264	\$ 49,911	\$ 1,436,825	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,495,000
50065	Carrollwood Wells Electrical Improvement	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 282,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 282,000
50072	Keller Hydrogen Sulfide Chemical Feed System	\$ -	\$ -	\$ -	\$ 44,735	\$ 187,107	\$ 89,158	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 321,000
50073	Cypress Creek Water Treatment Plant 72-Inch Valve	\$ -	\$ -	\$ 613,987	\$ 559,036	\$ 2,544,750	\$ 1,647,228	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,365,001
50075	Surface Water Treatment Plant-Renewal and Replacement Program	\$ -	\$ -	\$ 4,067,722	\$ 4,005,021	\$ 2,197,332	\$ 1,925,668	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 12,195,743
90003	System Configuration III-New Water Supply-Placeholder	\$ -	\$ -	\$ 680,122	\$ 587,090	\$ 587,090	\$ 284,982	\$ 62,259,314	\$ 96,171,695	\$ 2,201,205	\$ -	\$ -	\$ -	\$ -	\$ 162,771,498
	Totals	\$ -	\$ -	\$ 59,686,879	\$ 67,527,907	\$ 62,220,307	\$ 77,614,428	\$ 139,377,610	\$ 166,888,514	\$ 68,398,717	\$ 64,334,140	\$ 16,700,507	\$ 2,632,880	\$ -	\$ 725,381,889
			FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	
Projected Fund Fiscal Year Ending Balance			\$ -	\$ 70,313,121	\$ 2,785,214	\$ 79,564,907	\$ 1,950,479	\$ 168,572,869	\$ 1,684,355	\$ 83,667,638	\$ 19,333,498	\$ 2,632,991	\$ 111	\$ 111	

Table 16: State of Florida Grants: Projected Fund Expenditures and Remaining Balance by Fiscal Year

		Current Balance as of 12/31/2021	10-Yr Projected Beginning Balance										
		FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future
Fund Projected Fiscal Year Beginning Balance		\$ -	\$ 43,066	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Projected Total Funds to be Added During Fiscal Year		\$ 344,232	\$ 405,768	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

			10-Yr Projected Fund Expenditures by Fiscal Year												
Project No.	Project Name	Actuals Thru End of Quarter	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	Total Funds Needed
50016	Eldridge-Wilde WF Pumps & Motors Replacement	\$ -	\$ 301,166	\$ 448,834	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 750,000
	Totals	\$ -	\$ 301,166	\$ 448,834	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 750,000
			FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	
Projected Fund Fiscal Year Ending Balance			\$ 43,066	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

Table 17: SWFWMD co-Funding: Projected Fund Expenditures and Remaining Balance by Fiscal Year

	Current Balance as of 12/31/2021	10-Yr Projected Beginning Balance											
	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	
Fund Projected Fiscal Year Beginning Balance	\$ -	\$ 2,013,724	\$ 3,162,129	\$ 1,503,686	\$ 541,406	\$ 506,695	\$ 444,809	\$ 382,924	\$ 545,346	\$ 545,346	\$ 545,346	\$ 545,346	
Projected Total Funds to be Added During Fiscal Year	\$ 4,568,676	\$ 5,718,531	\$ 4,568,864	\$ 3,242,273	\$ 28,414,307	\$ 106,136,722	\$ 140,049,104	\$ 18,677,022	\$ -	\$ -	\$ -	\$ -	

			10-Yr Projected Fund Expenditures by Fiscal Year												
Project No.	Project Name	Actuals Thru End of Quarter	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	Total Funds Needed
01609	Southern Hillsborough County Supply Expansion-Booster Pump Station (Brandon Booster Station)	\$ 786,341	\$ 937,360	\$ 1,384,199	\$ 692,100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 3,013,659
01610	Southern Hillsborough County Supply Expansion-Pipeline Segment A	\$ 9,003	\$ 902,009	\$ 1,414,725	\$ 2,965,464	\$ 2,148,612	\$ 16,523,024	\$ 25,777,891	\$ 25,777,891	\$ 9,569,881	\$ -	\$ -	\$ -	\$ -	\$ 85,079,497
01616	Southern Hillsborough County Supply Expansion-Pipeline Segment B	\$ -	\$ 715,583	\$ 1,091,080	\$ 1,982,653	\$ 1,468,851	\$ 11,641,012	\$ 18,161,403	\$ 18,161,403	\$ 6,743,514	\$ -	\$ -	\$ -	\$ -	\$ 59,965,499
09014	Surface Water Treatment Plant Expansion-Feasibility	\$ 269,787	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
90003	System Configuration III-New Water Supply-Placeholder	\$ -	\$ -	\$ 680,122	\$ 587,090	\$ 587,090	\$ 284,982	\$ 62,259,314	\$ 96,171,695	\$ 2,201,205	\$ -	\$ -	\$ -	\$ -	\$ 162,771,498
	Totals	\$ 1,065,131	\$ 2,554,952	\$ 4,570,126	\$ 6,227,307	\$ 4,204,553	\$ 28,449,018	\$ 106,198,608	\$ 140,110,989	\$ 18,514,600	\$ -	\$ -	\$ -	\$ -	\$ 310,830,153
			FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	
Projected Fund Fiscal Year Ending Balance			\$ 2,013,724	\$ 3,162,129	\$ 1,503,686	\$ 541,406	\$ 506,695	\$ 444,809	\$ 382,924	\$ 545,346	\$ 545,346	\$ 545,346	\$ 545,346	\$ 545,346	



Table 18: Uniform Rate Funds: Projected Fund Expenditures and Remaining Balance by Fiscal Year

			Current Balance as of 12/31/2021	10-Yr Projected Beginning Balance											
			FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	
Fund Projected Fiscal Year Beginning Balance			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
Projected Total Funds to be Added During Fiscal Year			\$ 3,763,814	\$ 4,209,493	\$ 2,483,710	\$ 2,160,677	\$ 2,469,304	\$ 1,886,236	\$ 1,494,675	\$ 1,500,000	\$ -	\$ -	\$ -	\$ -	
			10-Yr Projected Fund Expenditures by Fiscal Year												
Project No.	Project Name	Actuals Thru End of Quarter	FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	Total Funds Needed
01610	Southern Hillsborough County Supply Expansion-Pipeline Segment A	\$ 15,000.0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
01611	South Hillsborough Wellfield (New Wellfield via SHARP Credits)-Feasibility	\$ 1,744,130.0	\$ 1,208,147.0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,208,147.0
07131	Cosme Water Treatment Plant Yard Piping Improvements	\$ 900.0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
09010	Tampa Bay Desalination Upgrade/Replace PLC/SCADA System	\$ 90,158.0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
09014	Surface Water Treatment Plant Expansion-Feasibility	\$ 352,781.0	\$ 72,432.0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 72,432.0
09015	Tampa Bay Desalination Water Treatment Plant Expansion-Feasibility	\$ 2,620,947.0	\$ 634,831.0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 634,831.0
09016	2023 Long-Term Master Water Plan	\$ -	\$ 576,471.0	\$ 793,028.0	\$ 130,501.0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,500,000.0
09108	Cypress Creek Wellfield Surface Water Improvements-Phase 3	\$ -	\$ 26,735.0	\$ 131,461.0	\$ 394,282.0	\$ 19,022.0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 571,500.0
11005	Integrated Program Manager Consultant Services	\$ -	\$ 1,230,068.0	\$ 3,269,932.0	\$ 1,505,325.0	\$ 1,500,000.0	\$ 1,500,000.0	\$ 1,500,000.0	\$ 1,494,675.0	\$ 1,500,000.0	\$ -	\$ -	\$ -	\$ -	\$ 13,500,000.0
11009	Starkey Wellfield Collection Main Assessment	\$ -	\$ -	\$ -	\$ -	\$ 264,260.0	\$ 969,304.0	\$ 386,236.0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,619,800.0
11010	Cypress Creek Collection Main Condition Assessment	\$ -	\$ 15,130.0	\$ 15,072.0	\$ 453,602.0	\$ 377,395.0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 861,199.0
50016	Eldridge-Wilde WF Pumps & Motors Replacement	\$ 6,978.0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
50040	Eldridge Wilde WF Underground Powerline	\$ 23,778.0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
50043	Cypress Creek Headwall Erosion Repair	\$ 35,550.0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
50066	High Service Pump Station and Cypress Creek Water Treatment Plant Diesel Piping Improvements	\$ 27,793.0	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	Totals	\$ 4,918,015.0	\$ 3,763,814.0	\$ 4,209,493.0	\$ 2,483,710.0	\$ 2,160,677.0	\$ 2,469,304.0	\$ 1,886,236.0	\$ 1,494,675.0	\$ 1,500,000.0	\$ -	\$ -	\$ -	\$ -	\$ 19,967,909.0
			FY 2022	FY 2023	FY 2024	FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	Future	
Projected Fund Fiscal Year Ending Balance			\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	

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## Project Details

A total of 89 projects are included in the updated Capital Improvements Program. This section provides a description of the projects included in the FYs 2023-2032 Capital Improvements Program and includes the projects' general information.

- Project Name and Number
- Project Manager and Construction Manager (if known as of date of this report)
- Project Description and General Location
- General Project Schedule
- Project Budget by Project Phase
- Planned Project Funding Sources and Expenditure Plan by Fiscal Year

**Project's descriptions are grouped based on the phase as of March 31, 2022.**

- Close-Out: This phase includes projects that have reached substantial completion and are pending final payments or Board approved close-out.
- Construction: This phase includes projects that are actively in construction.
- Bidding: This phase includes projects with on-going procurement or bidding for construction or design-build services.
- Design: This phase includes projects with on-going design and/permitting activities.
- Professional Services Selection: This phase includes projects with on-going selection of engineering or other professional services.
- Planning: This phase includes projects with on-going in-house or outsourced planning/feasibility activities.
- Not Yet Started: Projects that have not started or have been placed on-hold.

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## Close-Out Phase Projects

<b>Project No.</b>	<b>Project Name</b>
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07032 :	Tampa Bay Desalination Facility Intake Connection Improvements-Phase 1
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07604 :	SCADA-Field Communications Security
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09014 :	Surface Water Treatment Plant Expansion-Feasibility
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## 07032: Tampa Bay Desalination Facility Intake Connection Improvements-Phase 1

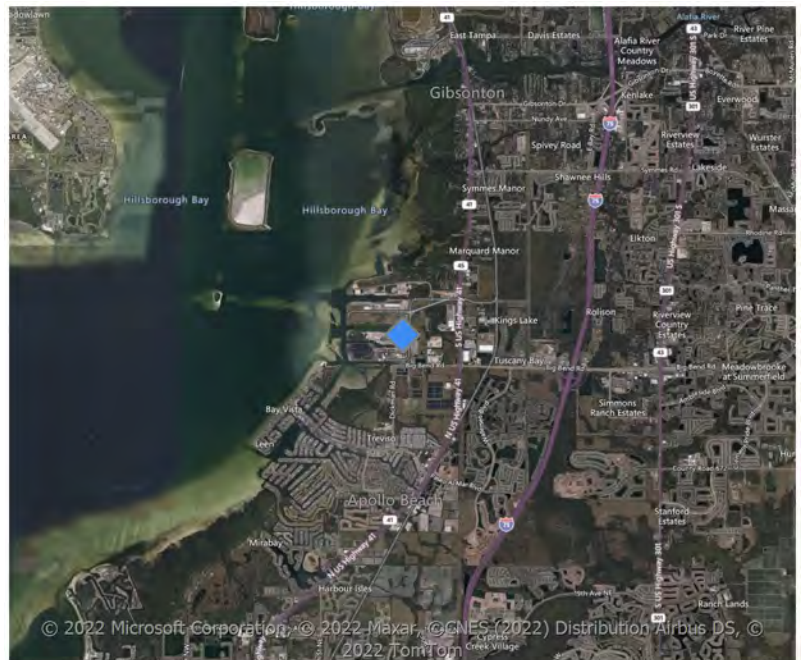
<b>Project Manager</b>	Richard Menzies
<b>Construction Manager</b>	Richard Menzies
<b>Status</b>	Close-Out

### Project Description

This project is located at the Tampa Bay Desalination Water Treatment Plant and includes improvements required at the cooling water intake of the Water Treatment Plant. These improvements are required due to impacts of Tampa Electric's Company (TECO) Modernization Project of Unit No. 1. Improvements will be completed in two separate projects or phases. Improvements in Phase 1 includes modifications to connect to TECO's tunnel no. 1. Phase 2 will include a new pump station and yard piping modifications.

### Project Location

Hillsborough County



### Project Schedule

Project Phase	Start Date	End Date
Planning	9/30/2019	10/11/2019
Professional Services Selection	10/14/2019	1/6/2020
Design	1/6/2020	4/28/2020
Bidding	4/28/2020	8/27/2020
Construction	8/27/2020	5/25/2022
Close-Out	5/25/2022	10/17/2022

### Project Budget by Project Phase

Project Phase	Amount
Design	\$59,357
Bidding	\$11,070
Construction	\$1,852,388

### Expenditure Plan by Fiscal Year and Funding Source



## 07604: SCADA-Field Communications Security

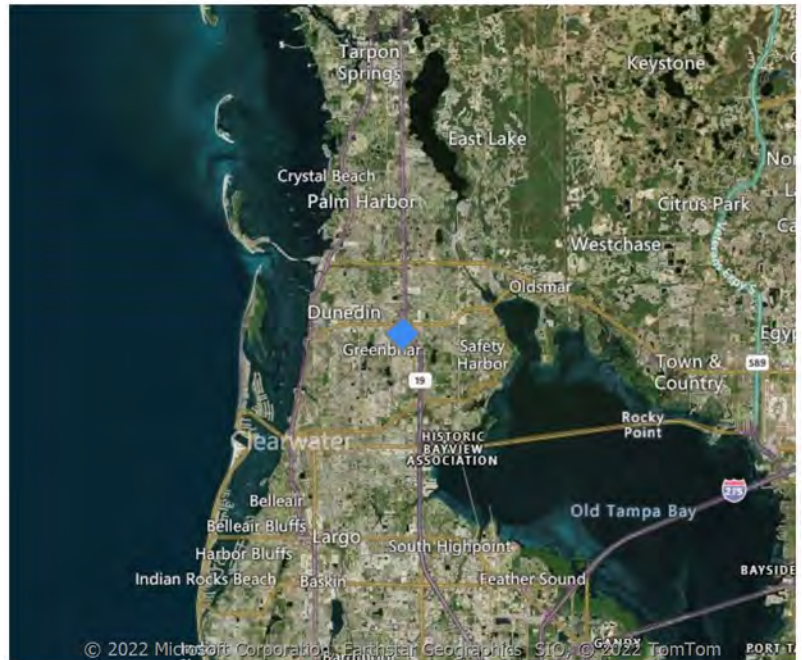
<b>Project Manager</b>	Abdel Hussein
<b>Construction Manager</b>	Abdel Hussein
<b>Status</b>	Close-Out

### Project Description

This project will provide secure communications based on Virtual Private Networks (VPNs) or Software Defined Wide Area Networks (SD-WAN) which in turn may be based on VPNs or similar technologies. The communications will be authenticated and encrypted. Due to the large number of sites and the large area of Tampa Bay Water, a central management tool will be required for managing all the remote devices.

### Project Location

Multiple



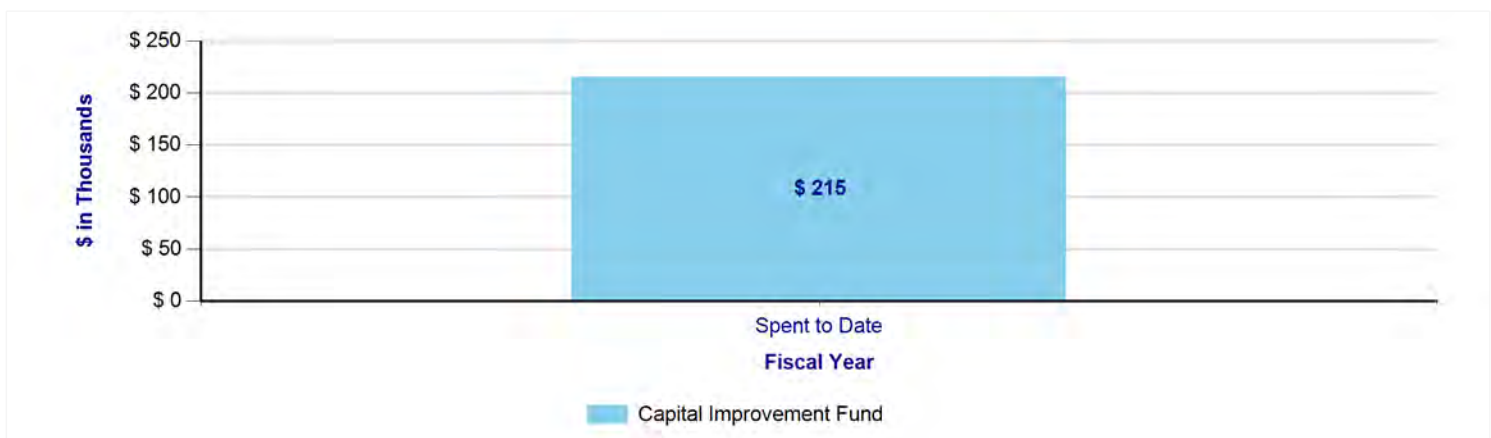
### Project Schedule

Project Phase	Start Date	End Date
Planning	8/31/2020	9/10/2020
Professional Services Selection	9/10/2020	9/18/2020
Design	9/21/2020	10/5/2020
Bidding	10/12/2020	12/31/2020
Construction	10/30/2020	12/31/2021
Close-Out	2/1/2022	2/25/2022

### Project Budget by Project Phase

Project Phase	Amount
Bidding	\$166,597
Construction	\$48,661

### Expenditure Plan by Fiscal Year and Funding Source





<b>Project Manager</b>	Maribel Medina
<b>Construction Manager</b>	Deanna Hamilton
<b>Status</b>	Close-Out

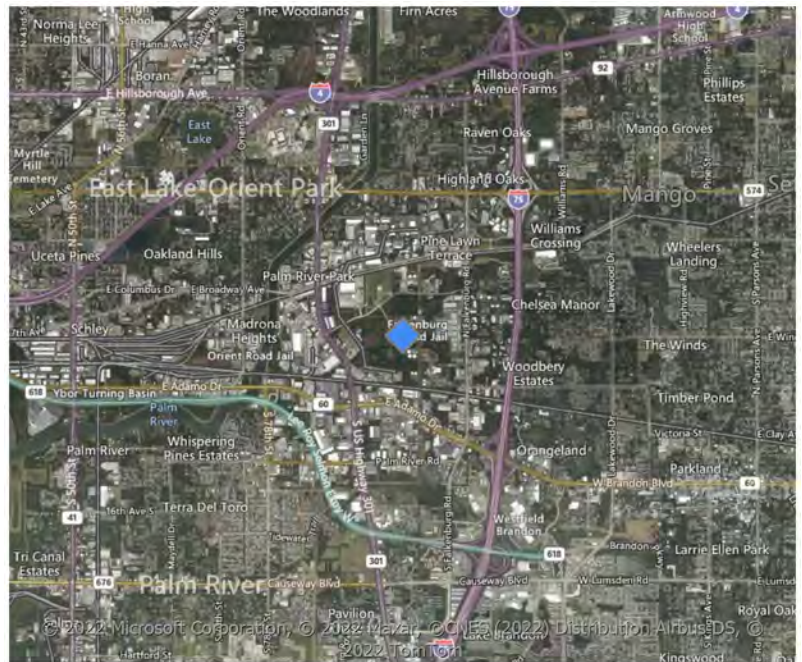
### Project Description

The purpose of this project is to further assess the feasibility of expanding the existing Regional Surface Water Treatment Plant and associated surface water supplies to maximize the available yield of the existing surface water supplies. This project would leverage the existing facility as much as possible for meeting projected regional water demands without significant capital expenditures, as well as inform design decisions for the future expansion. The project will also evaluate a 2nd location of the SWTP near the reservoir and the benefits associated with that location. The overall objective of the project is to increase Tampa Bay Water's surface water treatment capacity by 20 MGD as one of the supply options to obtain an annual average yield of 10-12.5 MGD to meet Tampa Bay Water long term water supply needs as identified in the 2018 Long-term Master Water Plan Update for the 2020 – 2040 planning horizon. The Regional Surface Water Treatment Plant is part of Tampa Bay Water's alternative water supply system that also includes the Regional C.W. Bill Young Regional Reservoir, the Tampa Bay Desalination Facility, and the Regional Facility Site High Service Pump Station.

Note: This project will receive up to \$275,000 through the SWFWMD's Cooperative Funding Initiative.

### Project Location

Hillsborough County



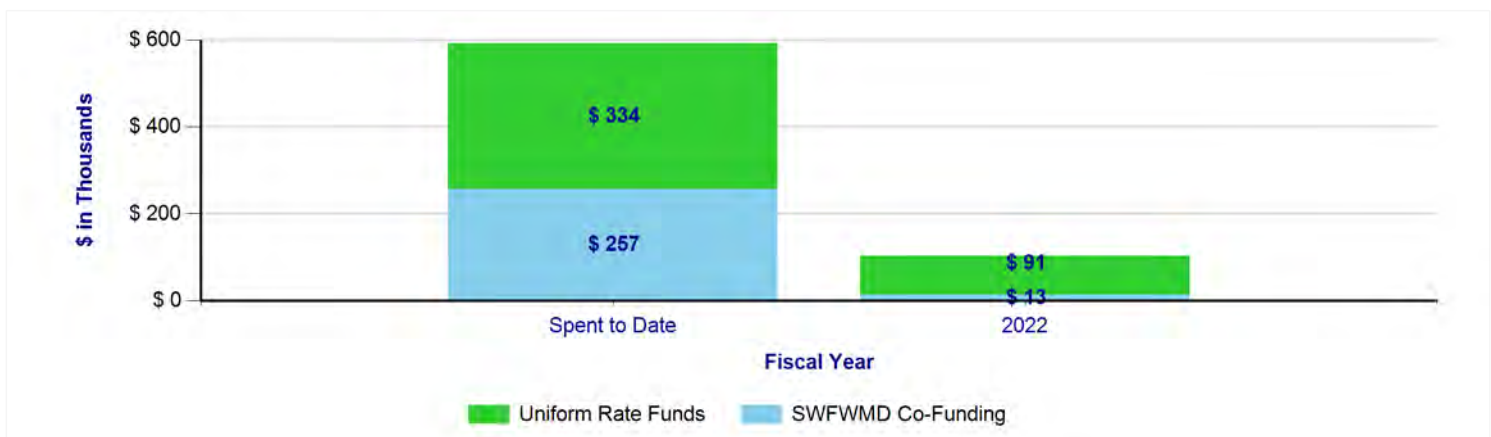
### Project Schedule

Project Phase	Start Date	End Date
Professional Services Selection	5/1/2019	11/4/2019
Planning	11/4/2019	7/31/2021
Close-Out	8/1/2021	6/20/2022

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$573,300
Close-Out	\$121,700

### Expenditure Plan by Fiscal Year and Funding Source





## Construction Phase Projects

<b>Project No.</b>	<b>Project Name</b>
--------------------	---------------------

01609 :	Southern Hillsborough County Supply Expansion: Booster Pump Station (Brandon Booster Station)
01615 :	South Pasco Water Treatment Plant Caustic Feed System
07010 :	Regional Facility Site Pump Station Expansion
07072 :	Tampa Bypass Canal Gates Automation
50016 :	Eldridge-Wilde WF Pumps & Motors Replacement
50031 :	Cypress Bridge Wellfield Improvements
50040 :	Eldridge Wilde WF Underground Powerline
50066 :	High Service Pump Station and Cypress Creek Water Treatment Plant Diesel Piping Improvements
50077 :	Repump Station Raw Water Line Valve Repair
50078 :	TBC TM Cathodic Protection
52004 :	C.W. Bill Young Regional Reservoir Solar Energy System

## 01609: Southern Hillsborough County Supply Expansion-Booster Pump Station (Brandon Booster Station)

<b>Project Manager</b>	Eliana Lara
<b>Construction Manager</b>	Anthony Fera
<b>Status</b>	Construction

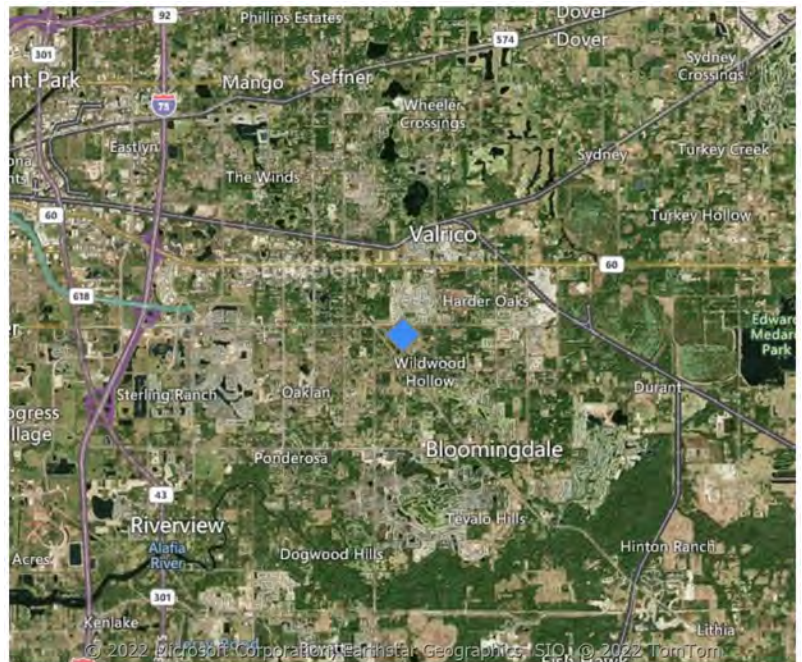
### Project Description

The project is needed to address the short-term water supply needs of Southern Hillsborough County and includes acquiring fee property and the design, permitting, and construction of a new in-line booster station in the vicinity of production well BUD-7. The new Booster Station will be named Brandon Booster Station and will take advantage of residual line pressure in the Brandon Transmission Main coming from the High Service Pump Station and boost pressures to sustain a higher flow rate to the existing Lithia POC than is possible using only High Service Pump Station discharge pressure. The Booster Pump Station will be designed to have booster capacity of 20 MGD with a net gain in transmission line flow of approximately 5 MGD to 7 MGD.

Note: This project will receive up to \$3,800,000 through the SWFWMD's Cooperative Funding Initiative.

### Project Location

Hillsborough County



### Project Schedule

Project Phase	Start Date	End Date
Planning	7/5/2019	12/31/2020
Professional Services Selection	7/5/2019	4/20/2020
Design	4/20/2020	4/1/2022
Bidding	3/31/2022	8/15/2022
Construction	8/16/2021	3/29/2024
Close-Out	3/29/2024	8/19/2024

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$447,619
Design	\$1,671,079
Bidding	\$29,801
Construction	\$16,233,671
Close-Out	\$82,272

### Expenditure Plan by Fiscal Year and Funding Source



## 01615: South Pasco Water Treatment Plant Caustic Feed System

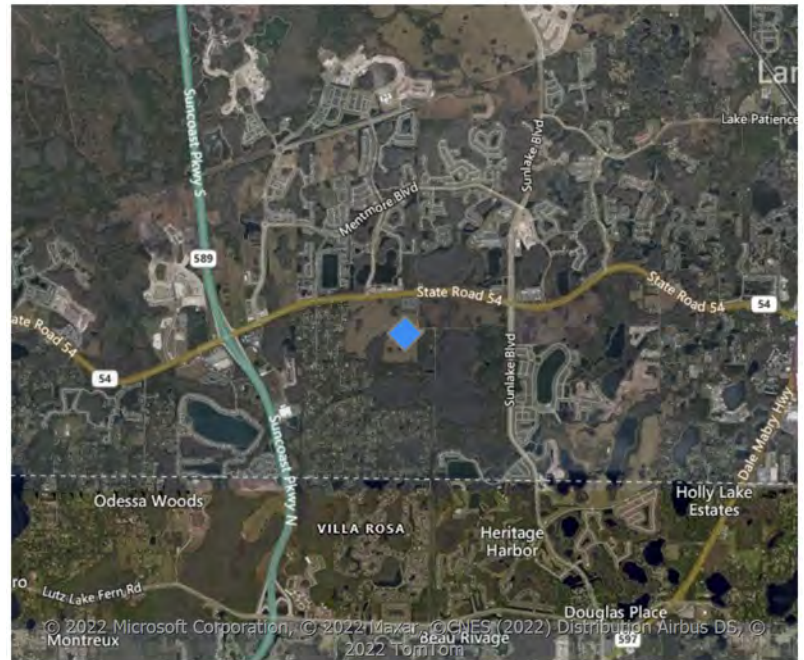
<b>Project Manager</b>	Nicole Thomas
<b>Construction Manager</b>	Anthony Fera
<b>Status</b>	Construction

### Project Location

Pasco County

### Project Description

This project is located at the South Pasco Water Treatment Plant and includes design and installation of a pH adjustment chemical feed system in the existing Water Treatment Plant chemical building. The chemical feed system will include caustic (sodium hydroxide) storage tanks, pump skid system and controls, and associated piping and in-pipe injection point. The system will allow Tampa Bay Water to adjust pH by the addition of either 25% or 50% caustic at the South Pasco Water Treatment Plant for flows between 4 and 28 MGD.



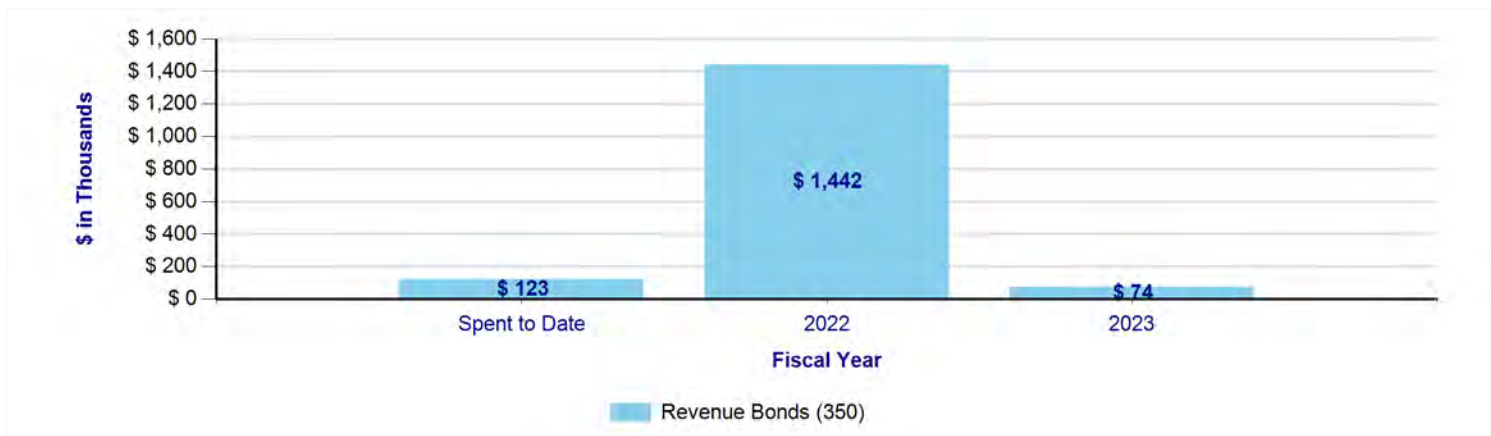
### Project Schedule

Project Phase	Start Date	End Date
Planning	3/2/2020	3/31/2020
Professional Services Selection	4/1/2020	6/15/2020
Design	6/1/2020	7/30/2021
Bidding	6/1/2021	8/24/2021
Construction	8/25/2021	10/17/2022
Close-Out	7/25/2022	8/22/2022

### Project Budget by Project Phase

Project Phase	Amount
Design	\$107,883
Bidding	\$1,499
Construction	\$1,497,371
Close-Out	\$33,000

### Expenditure Plan by Fiscal Year and Funding Source





## 07010: Regional Facility Site Pump Station Expansion

<b>Project Manager</b>	Solomon Kang
<b>Construction Manager</b>	Richard Menzies
<b>Status</b>	Construction

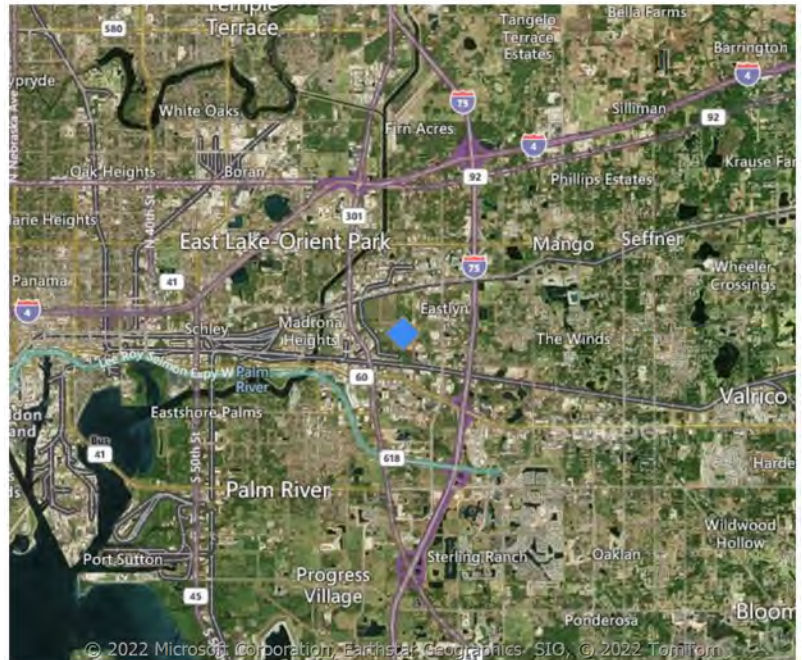
### Project Description

This project is located at the Regional Facility High Service Pump Station. The project will increase the existing regional water firm pumping capacity by 10-12 MGD average and 20 to 22 MGD maximum day at the Regional Facility Site High Service Pump Station – the main pump station for the region's wholesale water system. The project will include engineering services for the design, bidding, construction management, and construction activities associated with the removal of an existing unused 10 MGD (600 HP) jockey pump and installation of a new 24 MGD (2,000 HP) split case pump, Variable Frequency Drive, motor and ancillary electrical and mechanical equipment.

Note: This project will receive up to \$1,200,000 of funding through SWFWMD's Cooperative Funding Initiative.

### Project Location

Hillsborough County



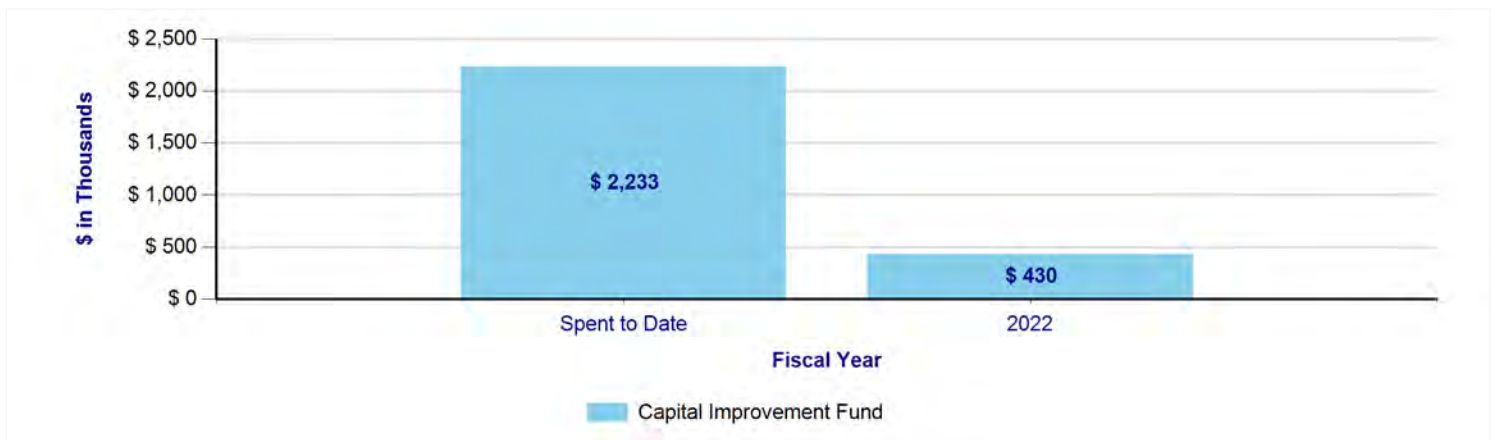
### Project Schedule

Project Phase	Start Date	End Date
Professional Services Selection	5/1/2017	10/1/2018
Design	10/22/2018	5/31/2019
Bidding	6/3/2019	10/21/2019
Construction	10/22/2019	3/15/2022
Close-Out	3/16/2022	8/15/2022

### Project Budget by Project Phase

Project Phase	Amount
Design	\$134,000
Bidding	\$2,500
Construction	\$2,521,363
Close-Out	\$5,000

### Expenditure Plan by Fiscal Year and Funding Source



## 07072: Tampa Bypass Canal Gates Automation

<b>Project Manager</b>	
<b>Construction Manager</b>	Richard Menzies
<b>Status</b>	Construction

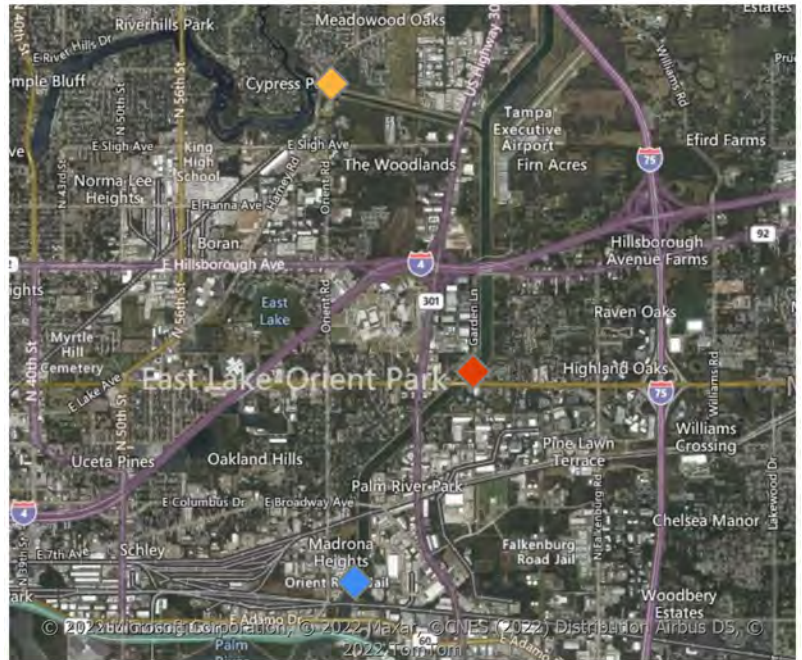
### Project Description

This project will equip the existing manual slide gates located on top of the larger flood control gates with remote-controlled motorized gate actuators at the Tampa Bypass Canal Structures 160, 161, and 162. The structures are owned by the Army Corps of Engineers, the flood control gates are operated by the Southwest Florida Water Management District (SWFWMD), and the slide gates are operated by Tampa Bay Water. There is a total of 15 flood control gates, 14 of which have slide gates at the top. Five of the top-mounted slide gates already have automation installed. This project includes the installation of automation on the remaining nine slide gates.

Note: This project will receive up to \$516,000 through SWFWMD's Cooperative Funding Initiative.

### Project Location

Hillsborough County



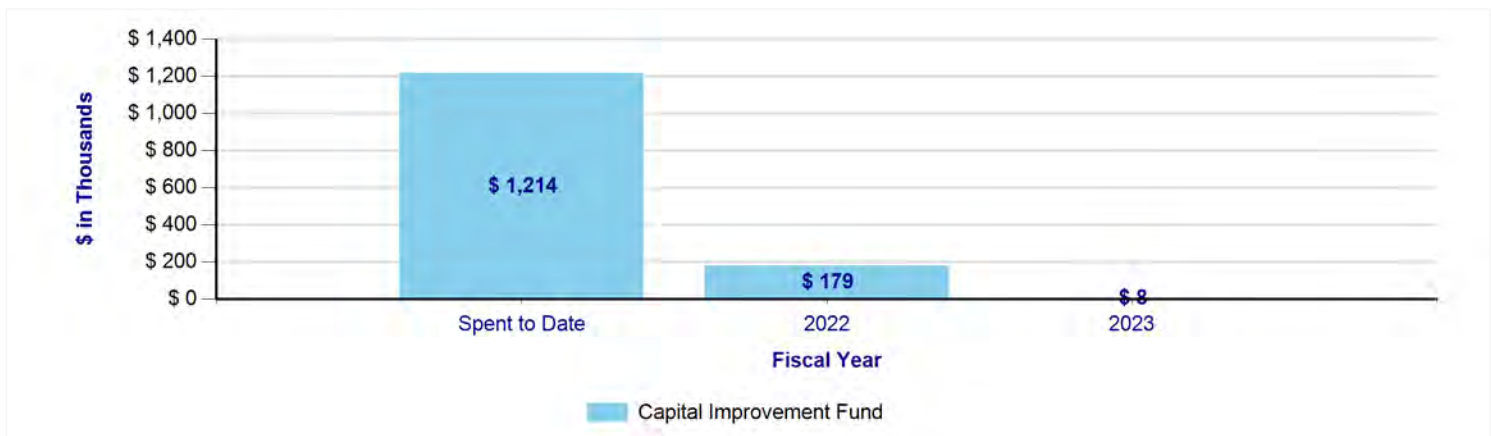
### Project Schedule

Project Phase	Start Date	End Date
Planning	2/1/2018	3/15/2018
Professional Services Selection	3/16/2018	10/22/2018
Design	10/23/2018	5/31/2019
Bidding	6/3/2019	2/17/2020
Construction	2/18/2020	10/5/2022
Close-Out	10/6/2022	12/19/2022

### Project Budget by Project Phase

Project Phase	Amount
Design	\$176,000
Bidding	\$2,500
Construction	\$1,217,100
Close-Out	\$5,000

### Expenditure Plan by Fiscal Year and Funding Source





## 50016: Eldridge-Wilde WF Pumps and Motors Replacement

<b>Project Manager</b>	Danielle Keirsej
<b>Construction Manager</b>	Ryan Morriss
<b>Status</b>	Construction

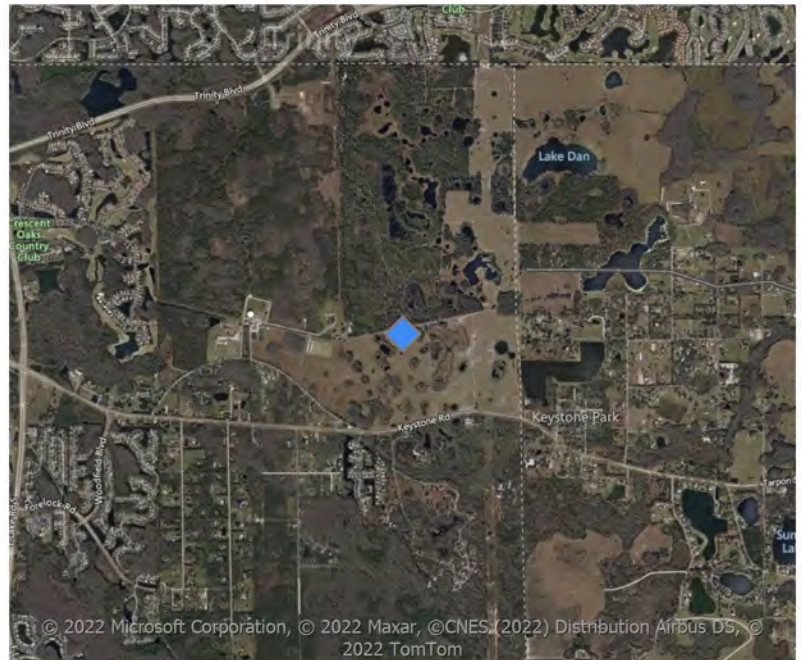
### Project Location

Multiple

### Project Description

This project is located at the Eldridge-Wilde Wellfield and includes: replacement of the pumps, motors, well houses, electrical service, flow measurement and isolation piping at 24 well sites. Access roads and drives will be repaired. 10 existing wells will not be upgraded and will be removed from service per the Wellfield Right-Sizing Analysis completed in September 2016. New pumps and motors will be sized to optimize efficiency for the varying specific capacity at each well. The project includes work in both Hillsborough and Pinellas Counties.

Note: This project will receive up to \$750,000 of State funding from the 2019 Legislative Session. The Funding will be managed by the Florida Department of Environmental Protection



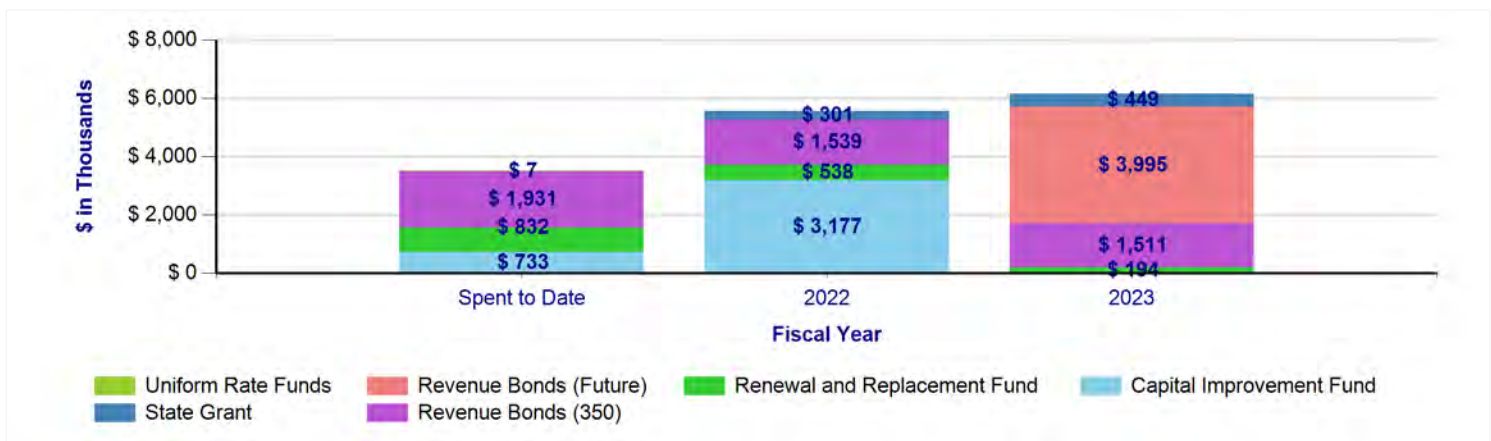
### Project Schedule

Project Phase	Start Date	End Date
Professional Services Selection	1/4/2016	8/15/2016
Design	8/16/2016	5/29/2020
Bidding	6/1/2020	1/1/2021
Construction	1/4/2021	8/21/2023

### Project Budget by Project Phase

Project Phase	Amount
Design	\$1,383,055
Bidding	\$100,323
Construction	\$13,802,539

### Expenditure Plan by Fiscal Year and Funding Source



## 50031: Cypress Bridge Wellfield Improvements

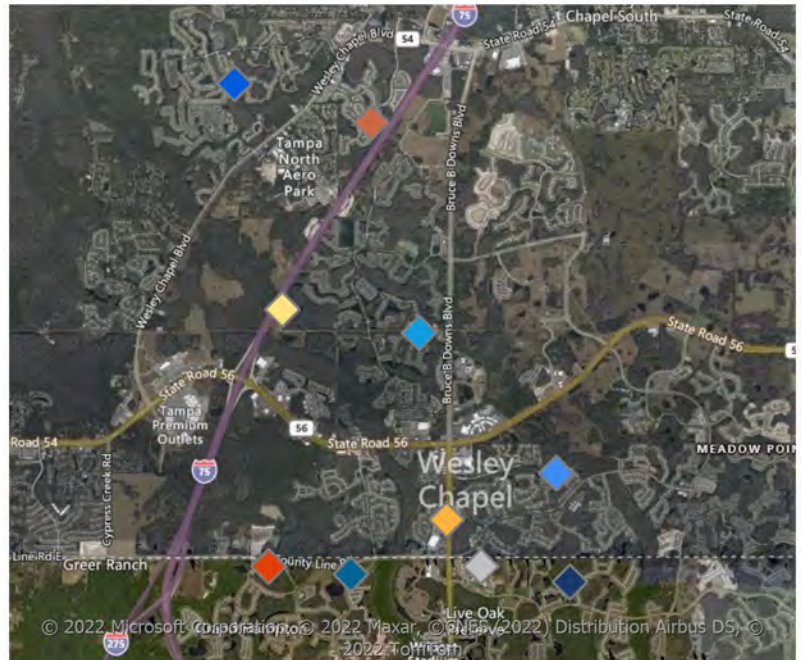
<b>Project Manager</b>	Eliana Lara
<b>Construction Manager</b>	Ryan Morriss
<b>Status</b>	Construction

### Project Description

The project is located at the Cypress Bridge Wellfield and includes replacement and addition of existing electrical overcurrent protection devices (OPD) with new equipment that will reduce the Arc Flash Hazard condition at the wells. Additionally, existing pump/motor control equipment may be replaced based on existing condition, age and maintenance history. Pumps and motors and generators will also be replaced as a part of this project.

### Project Location

Hillsborough County, Pasco County



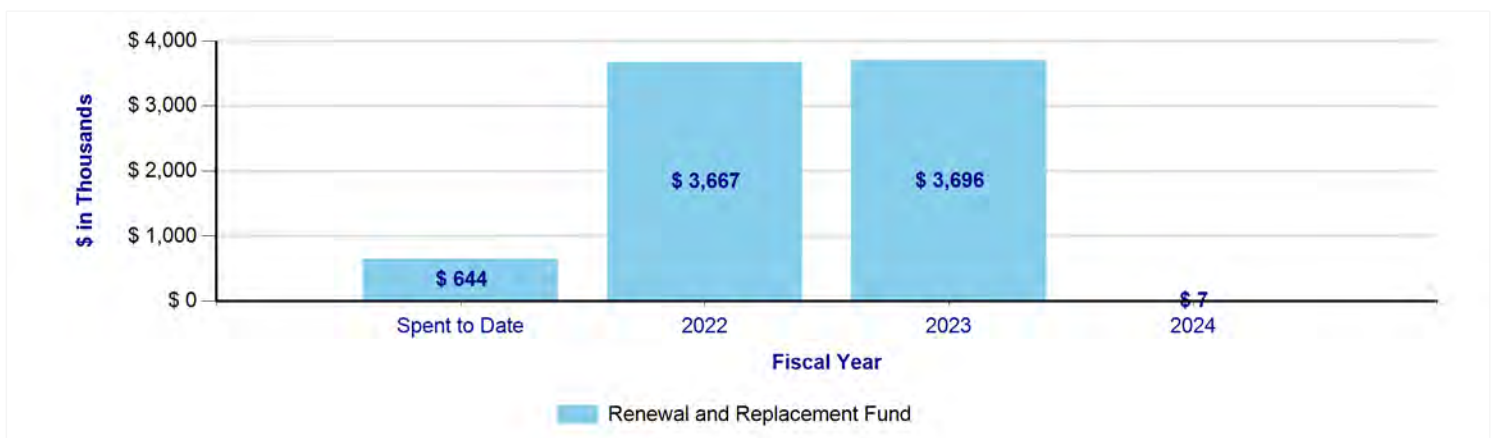
### Project Schedule

Project Phase	Start Date	End Date
Planning	6/17/2019	7/19/2019
Professional Services Selection	7/22/2019	3/6/2020
Design	3/9/2020	6/21/2021
Bidding	6/22/2021	12/31/2021
Construction	1/1/2022	6/20/2023
Close-Out	6/21/2023	10/16/2023

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$5,742
Design	\$693,400
Bidding	\$19,560
Construction	\$7,243,552
Close-Out	\$51,392

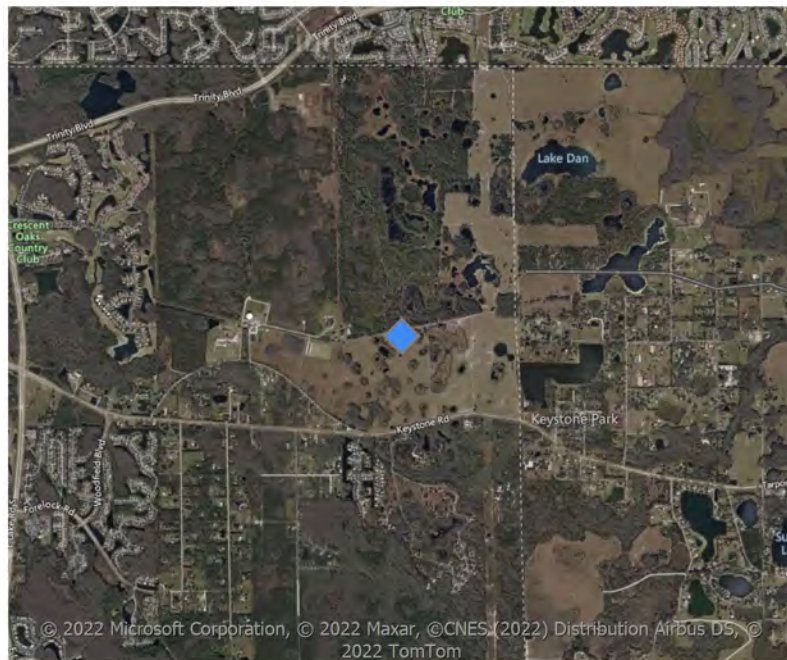
### Expenditure Plan by Fiscal Year and Funding Source





Project Location	
	Multiple

This project is located at the Eldridge Wilde Wellfield and includes the installation of approximately 55,000 Linear Feet (LF) of new underground power line in conduit, configured for radial (non-loop) feed; 55,000 LF of spare conduit parallel to the power line; and demolition of the existing overhead system which has reached the end of its useful life.



Project Budget by Project Phase	
Project Phase	Amount
Design	\$1,024,782
Construction	\$3,252,959

Fiscal Year	Uniform Rate Funds	Revenue Bonds (350)	Renewal and Replacement Fund
Spent to Date	\$68	\$24	\$1,855
2022			\$1,094
2023			\$1,132



## 50066: High Service Pump Station and Cypress Creek Water Treatment Plant Diesel Piping Improvements

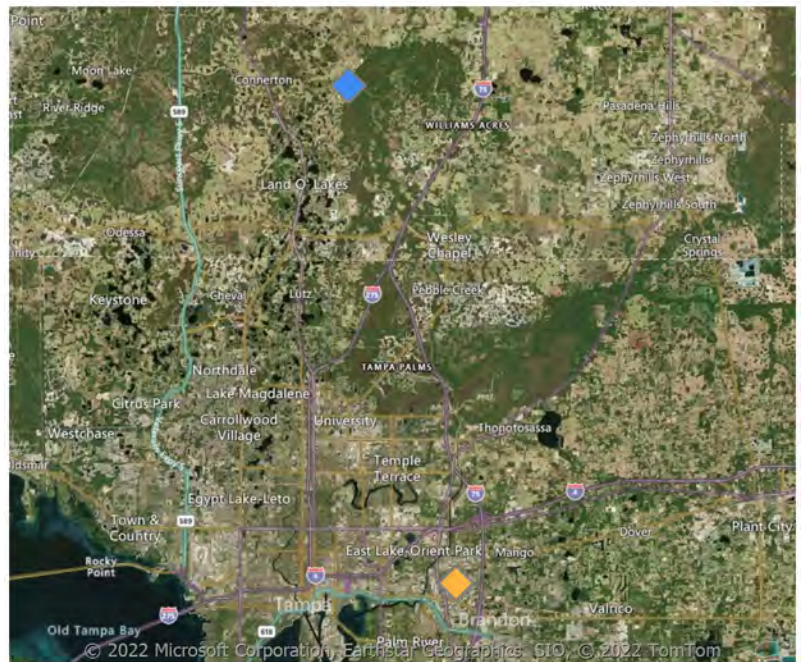
<b>Project Manager</b>	Jonathan Kennedy
<b>Construction Manager</b>	Ryan Morriss
<b>Status</b>	Construction

### Project Description

This project includes design, permitting and construction of diesel piping and filter improvements at the High Service Pump Station in Tampa and Cypress Creek Water Treatment Plant in Land O' Lakes.

### Project Location

Multiple



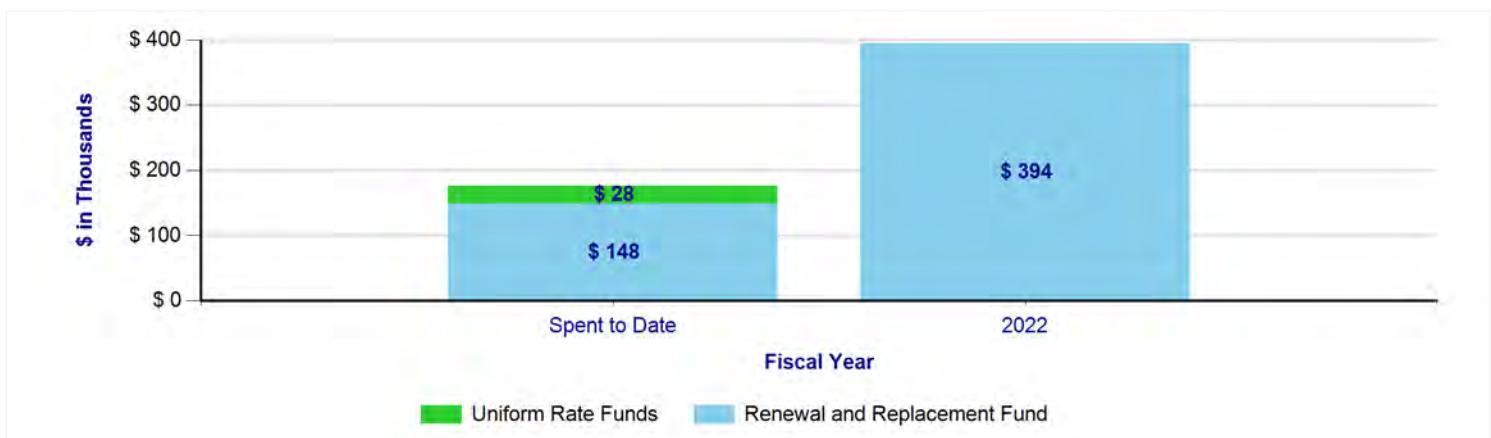
### Project Schedule

Project Phase	Start Date	End Date
Planning	3/2/2016	4/5/2016
Professional Services Selection	4/6/2016	6/24/2016
Design	6/27/2016	2/17/2020
Bidding	2/18/2020	6/15/2020
Construction	6/15/2020	2/18/2022
Close-Out	2/19/2022	5/20/2022

### Project Budget by Project Phase

Project Phase	Amount
Design	\$29,995
Construction	\$482,832
Close-Out	\$60,001

### Expenditure Plan by Fiscal Year and Funding Source



## 50077: Repump Station Raw Water Line Valve Repair

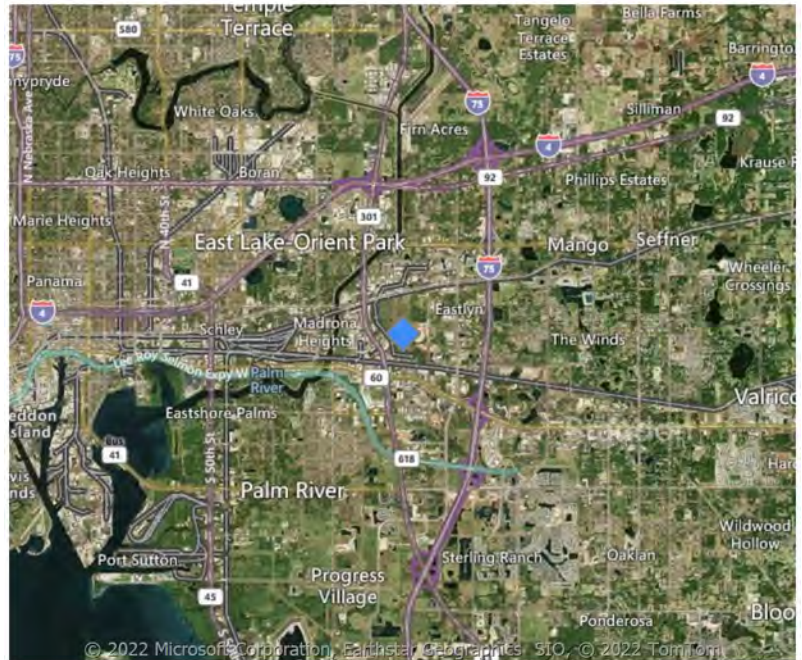
<b>Project Manager</b>	James Smith
<b>Construction Manager</b>	Anthony Fera
<b>Status</b>	Construction

### Project Description

This project is located at the Regional Repump Station and includes the replacement of a 36-inch raw water valve with a new 36-inch control valve. The current valve is an underground plug valve that leaks when in the open position. Currently the 36-inch valve is being bypassed with a 54-inch valve, which is now a single point of failure. If it were to fail it would limit or remove the ability to transfer water from the C.W. Bill Young Regional Reservoir and Alafia River to the Regional Surface Water Treatment Plant.

### Project Location

Hillsborough County



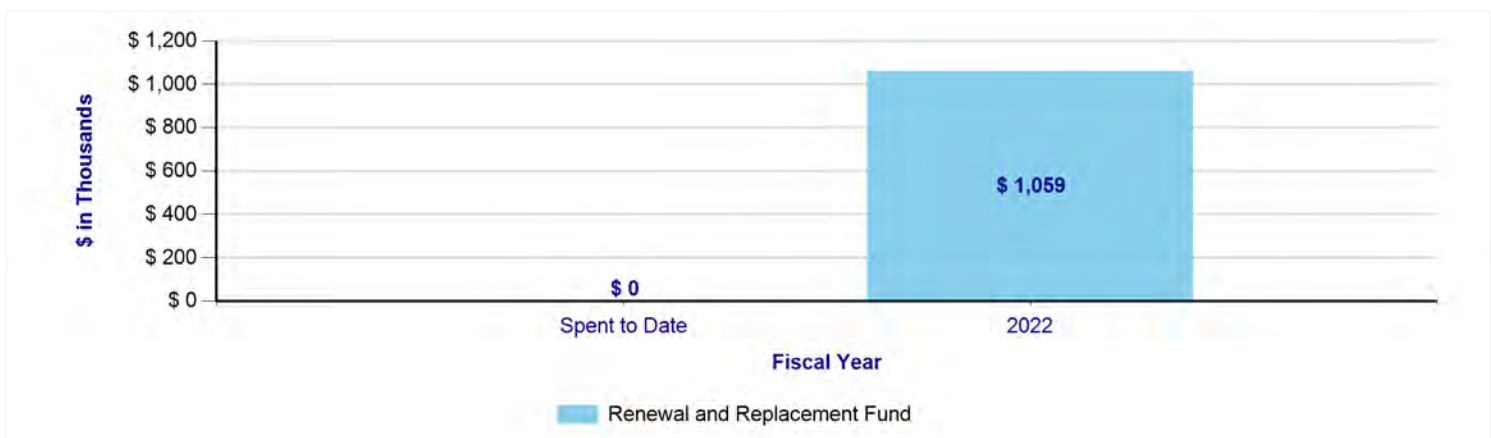
### Project Schedule

Project Phase	Start Date	End Date
Planning	2/1/2021	7/2/2021
Professional Services Selection	6/21/2021	6/24/2021
Design	6/25/2021	6/28/2021
Bidding	6/29/2021	7/30/2021
Construction	8/2/2021	11/30/2022
Close-Out	11/30/2022	1/23/2023

### Project Budget by Project Phase

Project Phase	Amount
Construction	\$1,050,902
Close-Out	\$8,000

### Expenditure Plan by Fiscal Year and Funding Source





## 50078: Tampa Bay Desalination Finished Water Line Repair

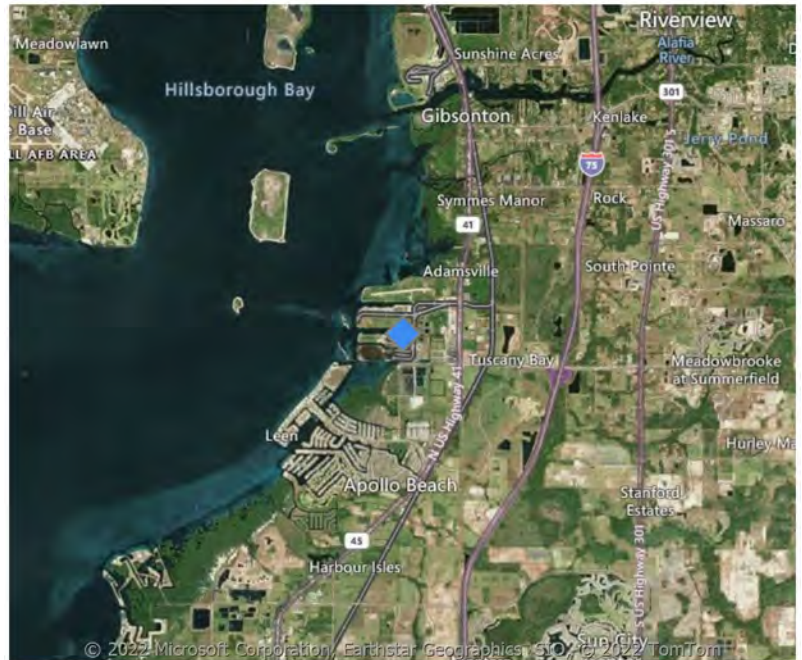
<b>Project Manager</b>	James Smith
<b>Construction Manager</b>	Anthony Feria
<b>Status</b>	Construction

### Project Description

This project is located at the Tampa Bay Desalination Facility and includes repairs to return the facility online. On May 3rd 2021 the Desalination facility was shutdown indefinitely after a large failure was discovered on the discharge piping of Pump #1 at the Product Water Pump Station. All of the piping above and below ground at the Pump Station is fiberglass reinforced plastic (FRP) piping. The failure has disturbed the discharge piping location and therefore has possibly caused damage to the single piece FRP header in the ground; extent of damage is unknown at this time. A previous failure on Pump #2 was noted to have damaged the buried header, but it was repaired. This header's condition is again suspect after the latest incident.

### Project Location

Hillsborough County



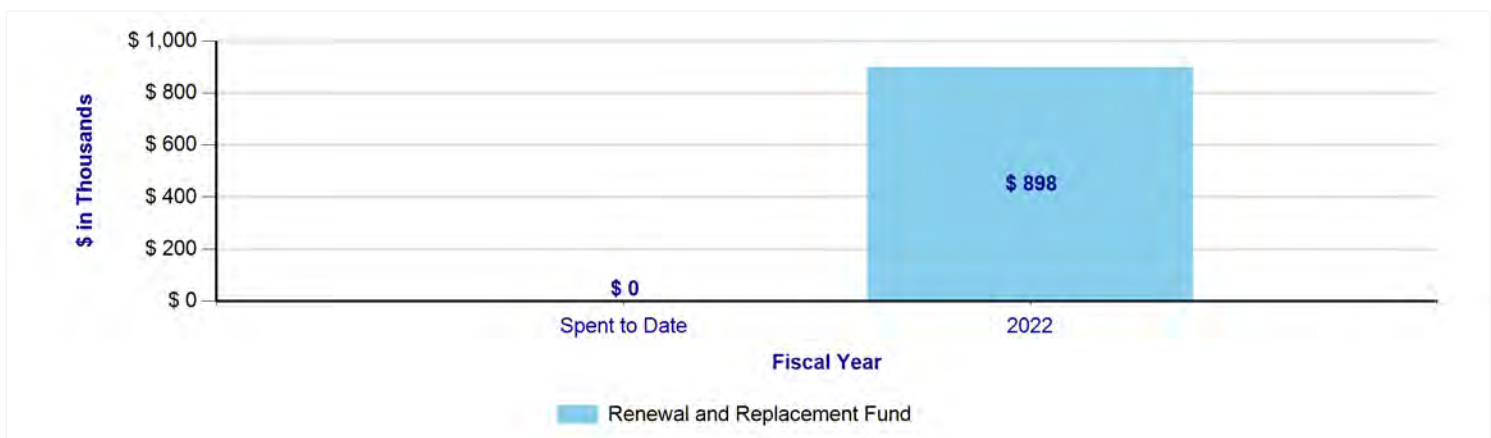
### Project Schedule

Project Phase	Start Date	End Date
Planning	5/3/2021	5/5/2021
Professional Services Selection	5/5/2021	5/5/2021
Design	5/6/2021	5/10/2021
Bidding	5/10/2021	6/7/2021
Construction	6/8/2021	2/28/2022
Close-Out	3/1/2022	5/16/2022

### Project Budget by Project Phase

Project Phase	Amount
Construction	\$898,128

### Expenditure Plan by Fiscal Year and Funding Source



## 52004: C.W. Bill Young Regional Reservoir Solar Energy System

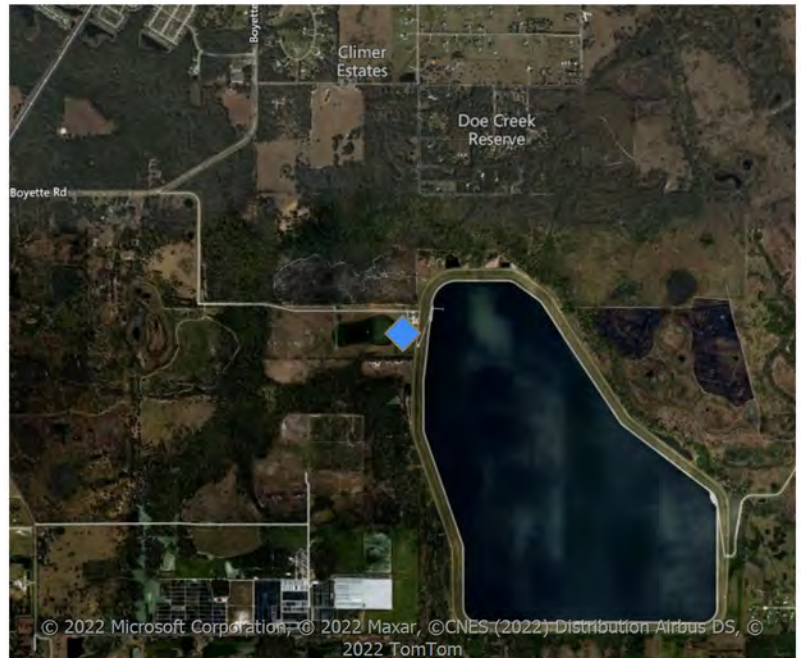
<b>Project Manager</b>	Danielle Keirsej
<b>Construction Manager</b>	Ryan Morriss
<b>Status</b>	Construction

### Project Description

This project is located at the C.W. Bill Young Regional Reservoir (Reservoir) and includes the installation of a Solar Photovoltaic System (System) sized to meet the energy demands at the Reservoir. Currently Tampa Bay Water consumes an average of 2,500,000 kWh per year to supply power to the Reservoir aeration system and limited averaged use of the off-stream Reservoir Pump Station. The System will be sized to about 1.3 MWAC and will be connected to Tampa Electric Company (TECO) through a net-metering interconnection.

### Project Location

Hillsborough County



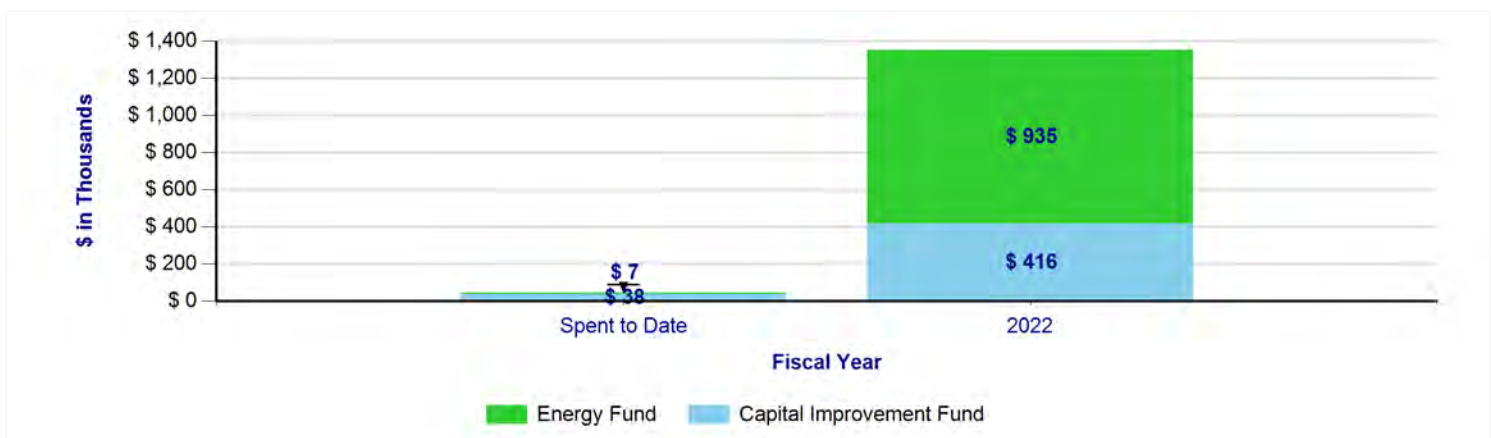
### Project Schedule

Project Phase	Start Date	End Date
Planning	8/5/2019	8/16/2019
Professional Services Selection	8/19/2019	4/29/2020
Design	4/30/2020	9/10/2020
Bidding	9/11/2020	2/26/2021
Construction	3/15/2021	1/17/2022
Close-Out	1/18/2022	4/18/2022

### Project Budget by Project Phase

Project Phase	Amount
Construction	\$1,395,671

### Expenditure Plan by Fiscal Year and Funding Source



## **Bidding Phase Projects**

**Project No.    Project Name**

07131 : Cosme Water Treatment Plant Yard Piping Improvements



## 07131: Cosme Water Treatment Plant Yard Piping Improvements

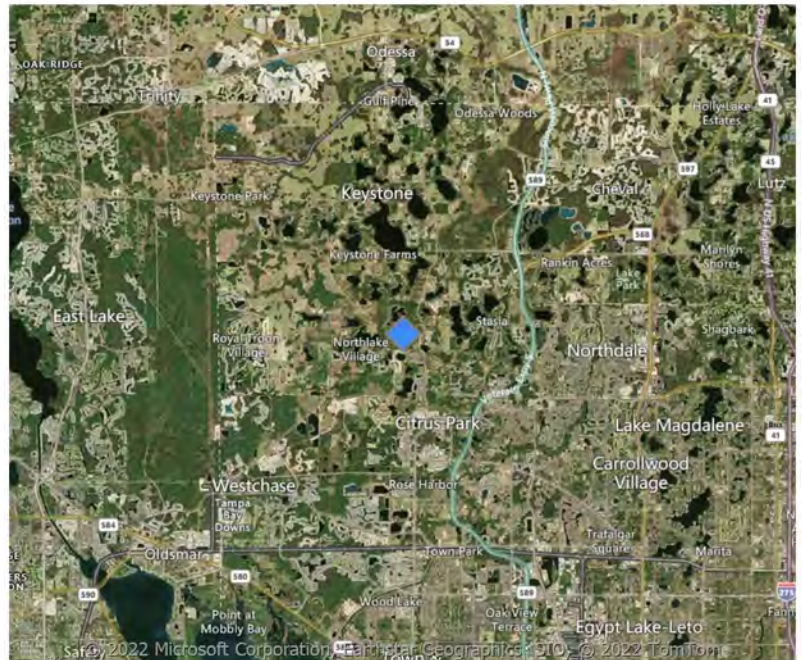
<b>Project Manager</b>	James Smith
<b>Construction Manager</b>	Ryan Morriss
<b>Status</b>	Bidding

### Project Description

This project is located at the Cosme Water Treatment Plant (WTP) and includes new yard piping to permanently connect the South Pasco Transmission Main (TM) to the Northwest Hillsborough TM, and complete a conceptual design for a future emergency interconnection piping at the Cosme WTP site. The connection between the two transmission mains upstream of the Cosme WTP will allow the South Pasco TM to be kept fresh while the Cosme Bypass piping is being utilized. This project is being constructed by the City of St. Petersburg pursuant to the joint project agreement with Tampa Bay Water.

### Project Location

Hillsborough County



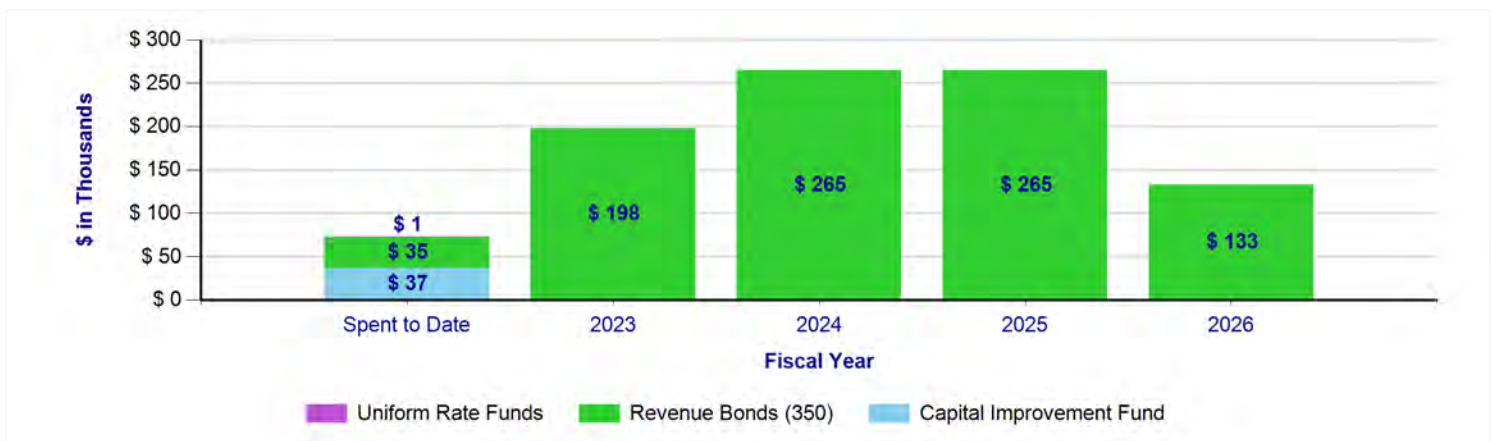
### Project Schedule

Project Phase	Start Date	End Date
Planning	5/1/2007	8/21/2015
Design	7/23/2015	11/29/2018
Bidding	11/30/2018	10/21/2019
Construction	1/2/2023	4/1/2026

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$900
Design	\$72,172
Construction	\$861,609

### Expenditure Plan by Fiscal Year and Funding Source



## **Design Phase Projects**

<b>Project No.</b>	<b>Project Name</b>
--------------------	---------------------

01610 :	Southern Hillsborough County Supply Expansion: Pipeline Segment A
01616 :	Southern Hillsborough County Supply Expansion: Pipeline Segment B
07033 :	Tampa Bay Desalination Facility Intake Connection Improvements: Phase 2
07602 :	SCADA-Wireless Units Upgrade
50021 :	Morris Bridge WF Improvements
50046 :	Lake Bridge Chemical Piping Replacement
50049 :	High Service Pump Station Chemical Piping Replacement
50067 :	TBC TM Cathodic Protection

## 01610: Southern Hillsborough County Supply Expansion-Pipeline Segment A

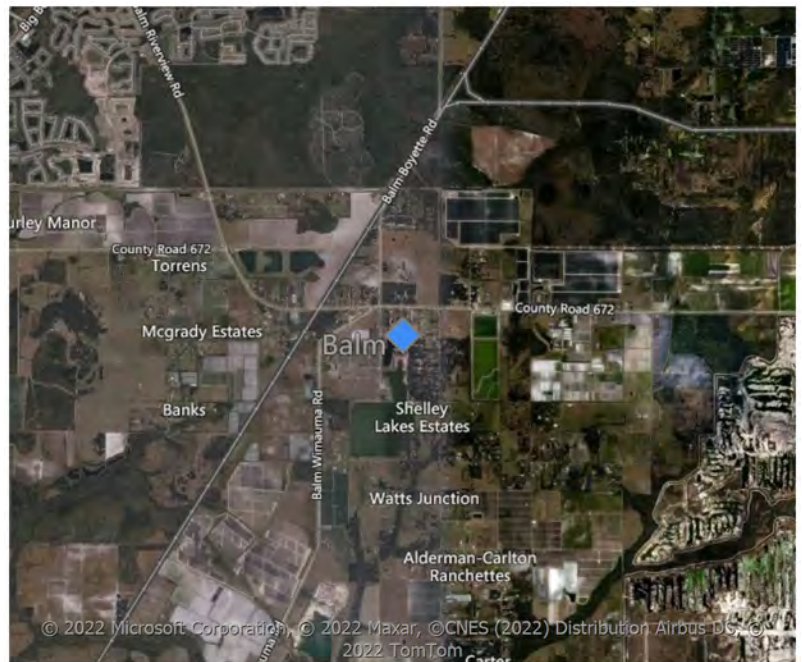
<b>Project Manager</b>	Eliana Lara
<b>Construction Manager</b>	Richard Menzies
<b>Status</b>	Design

### Project Description

This project includes the construction of a new transmission main "Segment A" of the Southern Hillsborough County Supply Expansion Pipelines. Segment A is anticipated to be a 66-inch diameter, 16 - mile-long pipeline from the High Service Pump Station to the existing Lithia Point of Connection. The project when completed will be able to provide an additional 65 MGD of new supply to SE Hillsborough County. This project will receive co-funding from the SWFWMD's Cooperative Funding Initiative.

### Project Location

Hillsborough County



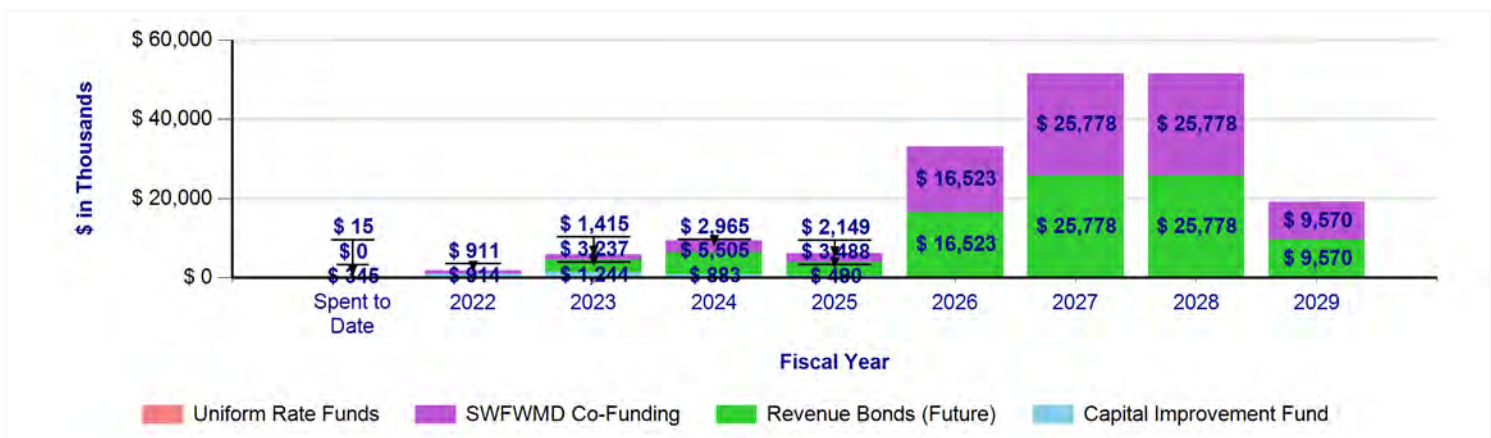
### Project Schedule

Project Phase	Start Date	End Date
Planning	10/1/2018	1/3/2021
Professional Services Selection	1/4/2021	8/16/2021
Design	8/16/2021	4/21/2025
Bidding	4/21/2025	2/16/2026
Construction	2/16/2026	11/2/2028
Close-Out	11/2/2028	2/19/2029

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$359,514
Design	\$22,198,486
Bidding	\$1,851,000
Construction	\$140,050,000
Close-Out	\$14,399,000

### Expenditure Plan by Fiscal Year and Funding Source





## 01616: Southern Hillsborough County Supply Expansion-Pipeline Segment B

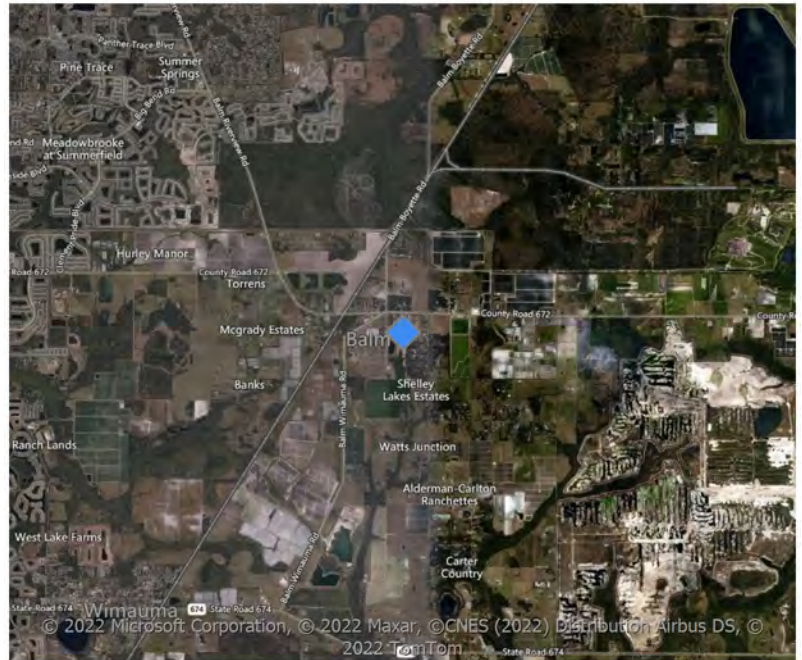
<b>Project Manager</b>	Eliana Lara
<b>Construction Manager</b>	Richard Menzies
<b>Status</b>	Design

### Project Description

This project includes the construction of a new transmission main "Segment B" of the Southern Hillsborough County Supply Expansion Pipelines. Segment B is anticipated to be a 66-inch diameter, 10-mile-long pipeline from an interconnection point along Segment A or at Lithia facilities site to Hillsborough County's new Balm area Point of Connection. The project when completed will be able to provide an additional 60 MGD of new supply to SE Hillsborough County. Project is a result of the signed Memorandum of Understanding with Hillsborough County. This project will receive co-funding from the SWFWMD's Cooperative Funding Initiative.

### Project Location

Hillsborough County



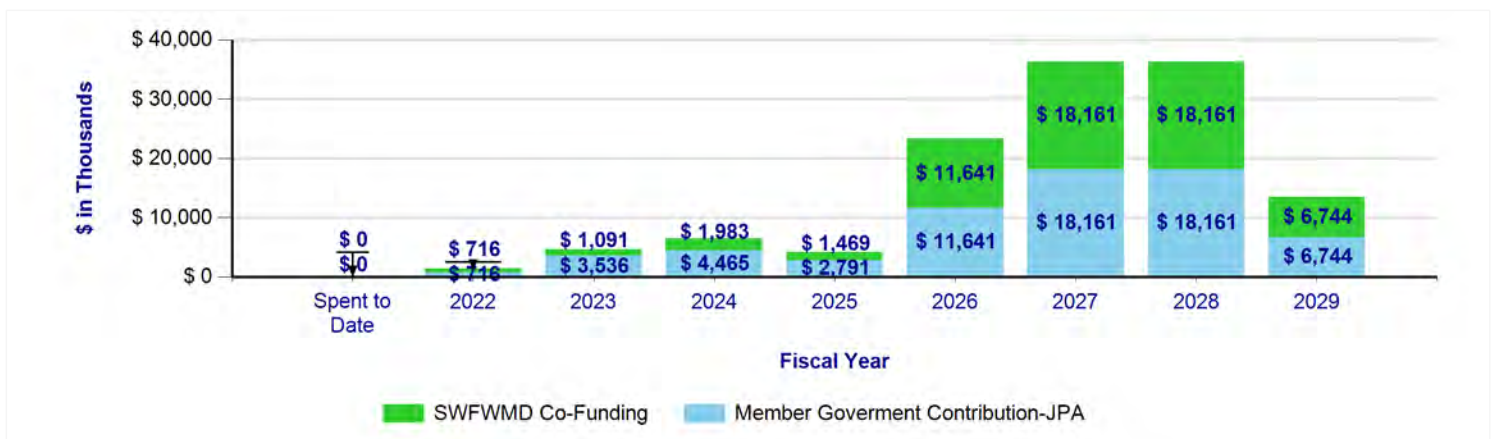
### Project Schedule

Project Phase	Start Date	End Date
Planning	6/1/2020	1/4/2021
Professional Services Selection	1/4/2021	8/16/2021
Design	8/16/2021	6/23/2025
Bidding	4/21/2025	2/16/2026
Construction	2/16/2026	11/2/2028
Close-Out	11/2/2028	2/19/2029

### Project Budget by Project Phase

Project Phase	Amount
Design	\$16,059,000
Bidding	\$1,304,000
Construction	\$98,670,000
Close-Out	\$10,147,000

### Expenditure Plan by Fiscal Year and Funding Source



## 07033: Tampa Bay Desalination Facility Intake Connection Improvements-Phase 2

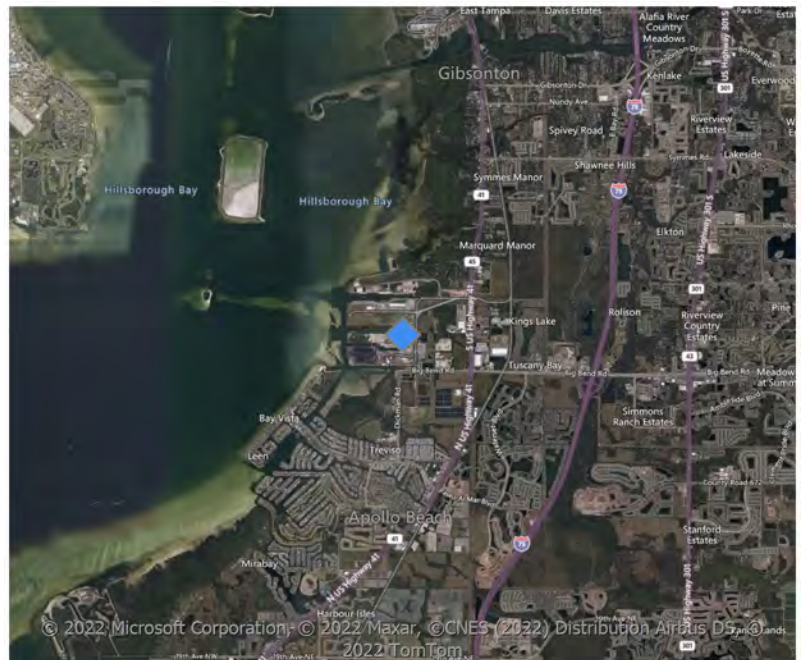
<b>Project Manager</b>	Danielle Keirse
<b>Construction Manager</b>	Richard Menzies
<b>Status</b>	Design

### Project Description

This project is located at the Tampa Bay Seawater Desalination Water Treatment Plant (Desal Plant). The project is to install a new pipeline and pump station at Tampa Electric Company's (TECO's) Big Bend power plant. The new pipeline will connect the Tunnel 1 intake pipeline connection and isolation valve, installed in Phase 1, to the existing Desal Intake Pump Facility.

### Project Location

Hillsborough County



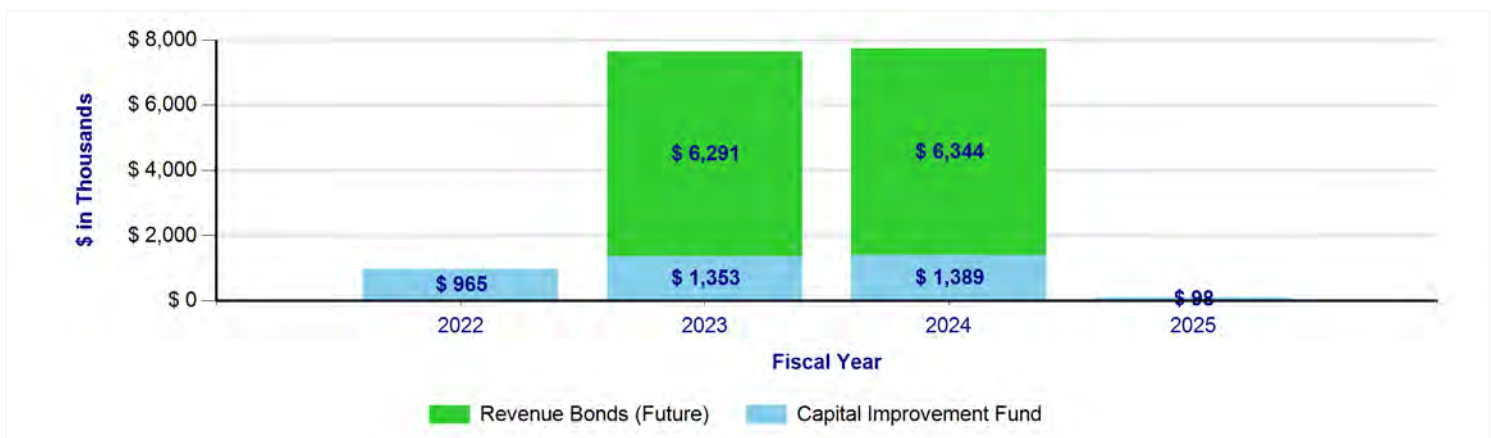
### Project Schedule

Project Phase	Start Date	End Date
Planning	3/1/2021	9/20/2021
Professional Services Selection	9/20/2021	10/18/2021
Design	10/18/2021	6/1/2022
Bidding	6/2/2022	11/21/2022
Construction	11/2/2022	8/30/2024
Close-Out	9/2/2024	12/16/2024

### Project Budget by Project Phase

Project Phase	Amount
Design	\$934,000
Bidding	\$44,000
Construction	\$15,326,130
Close-Out	\$136,000

### Expenditure Plan by Fiscal Year and Funding Source





## 07602: SCADA-Wireless Units Upgrade

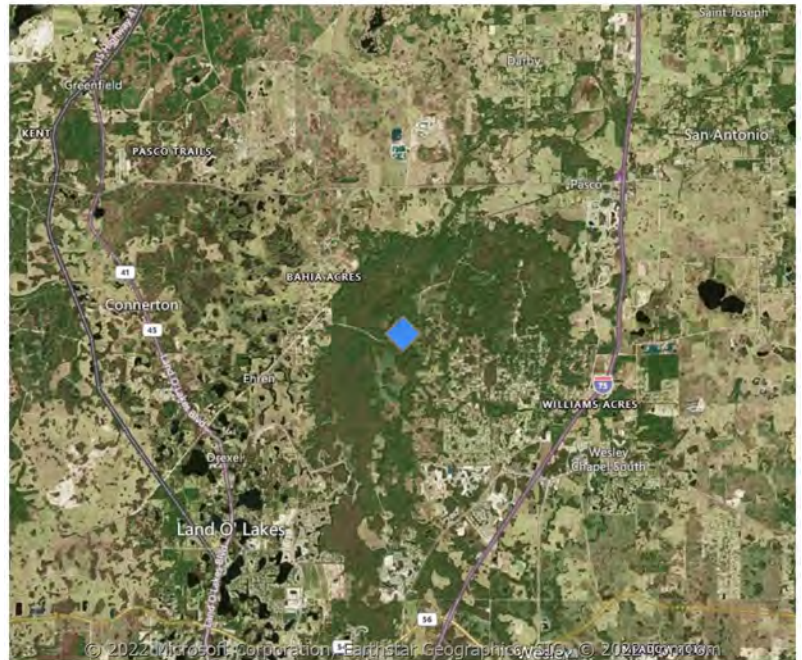
<b>Project Manager</b>	Abdel Hussein
<b>Construction Manager</b>	Abdel Hussein
<b>Status</b>	Not Yet Started

### Project Description

This project will upgrade wireless (cellular) communication devices used for SCADA communications.

### Project Location

Multiple



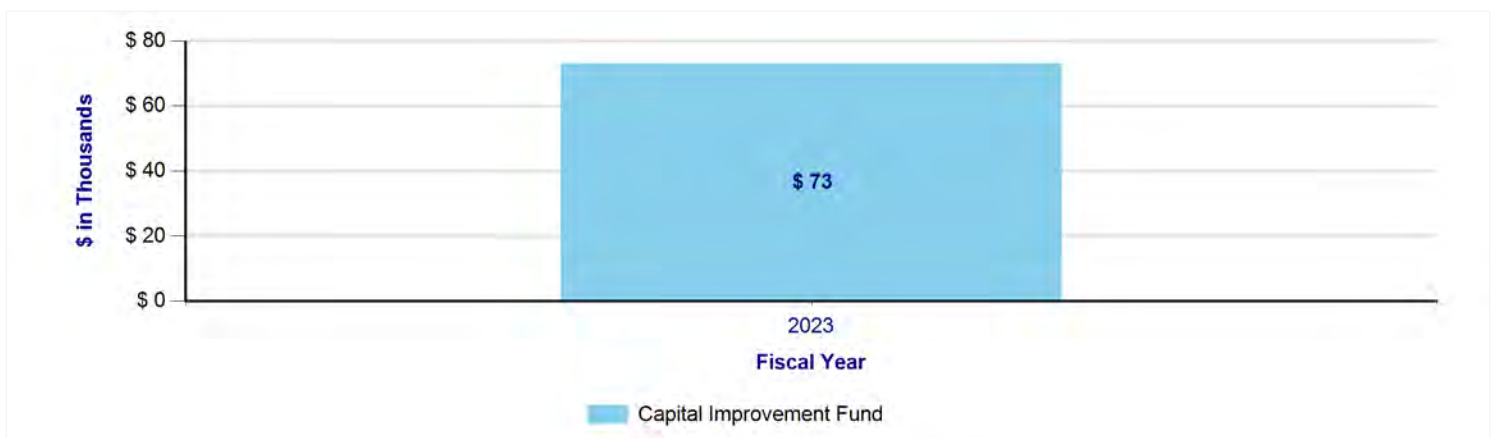
### Project Schedule

Project Phase	Start Date	End Date
Planning	6/10/2022	8/25/2022
Professional Services Selection	8/25/2022	8/25/2022
Design	8/26/2022	12/29/2022
Bidding	10/28/2022	2/20/2023
Construction	2/20/2023	6/26/2023
Close-Out	6/26/2023	8/3/2023

### Project Budget by Project Phase

Project Phase	Amount
Bidding	\$73,000

### Expenditure Plan by Fiscal Year and Funding Source



## 50021: Morris Bridge WF Improvements

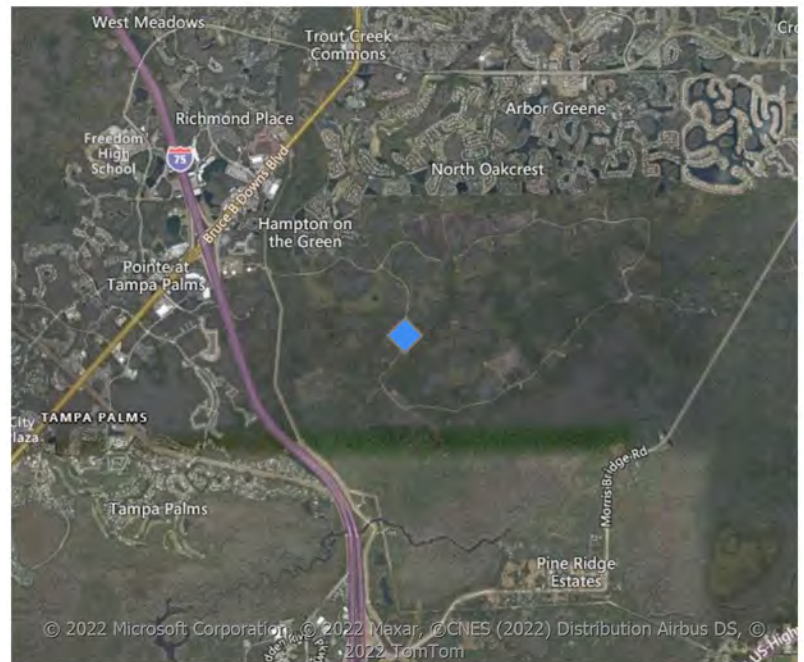
<b>Project Manager</b>	Nicole Thomas
<b>Construction Manager</b>	Richard Menzies
<b>Status</b>	Design

### Project Description

This project is located at the Morris Bridge Wellfield and includes: replacing the pumps and motors, main disconnect switch; and ancillary power equipment and associated load panels for 15 of the Morris Bridge Wellfield Pumps and Motors. In addition, new over-current protection devices will be added to reduce the Arc Flash hazard.

### Project Location

City of Tampa



### Project Schedule

Project Phase	Start Date	End Date
Planning	4/1/2014	9/30/2015
Professional Services Selection	1/13/2020	10/19/2020
Design	10/20/2020	12/7/2022
Bidding	12/8/2022	3/15/2023
Construction	3/16/2023	6/16/2025

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$83,152
Design	\$1,524,162
Bidding	\$26,800
Construction	\$10,967,598
Construction Costs	\$472,001

### Expenditure Plan by Fiscal Year and Funding Source



## 50046: Lake Bridge Chemical Piping Replacement

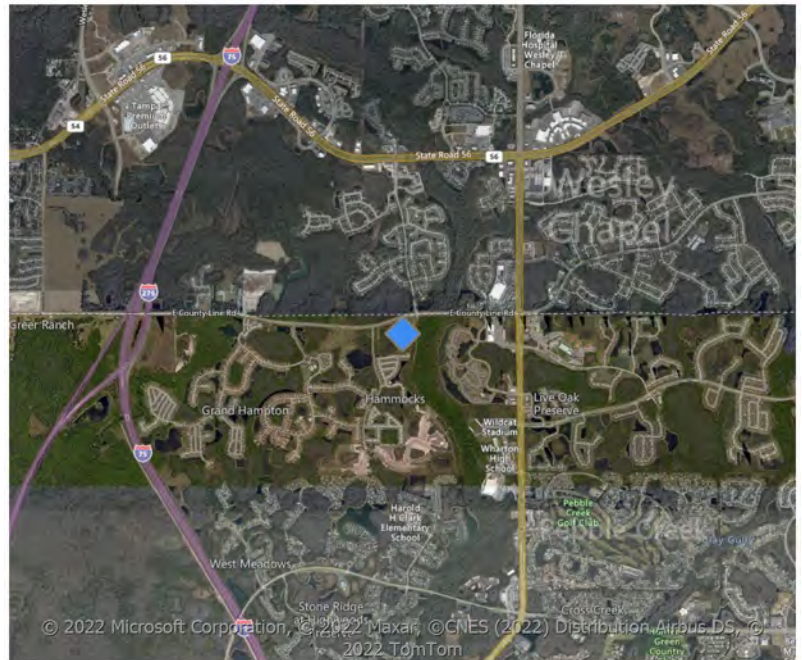
<b>Project Manager</b>	James Smith
<b>Construction Manager</b>	Ryan Morriss
<b>Status</b>	Design

### Project Description

This project is located at the Lake Bridge Water Treatment Plant and includes replacing the chemical feed systems, which includes the above and below ground chemical piping, chemical pumps, in-pipe chemical injection points and HDPE chemical storage tanks.

### Project Location

Hillsborough County



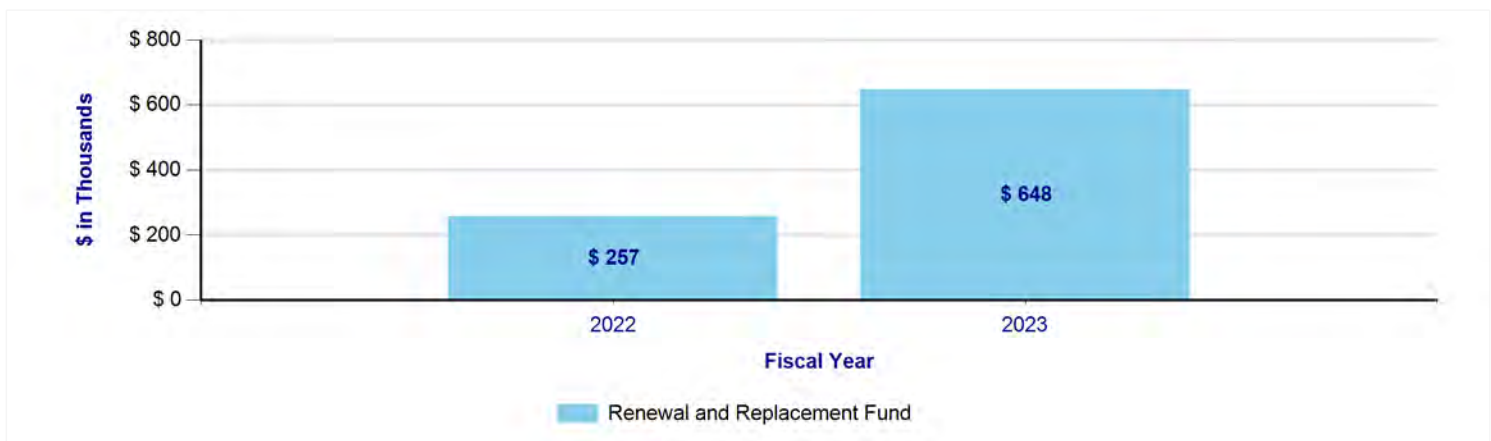
### Project Schedule

Project Phase	Start Date	End Date
Design	6/17/2016	2/10/2022
Bidding	2/11/2022	7/4/2022
Construction	7/5/2022	5/15/2023
Close-Out	5/16/2023	8/21/2023

### Project Budget by Project Phase

Project Phase	Amount
Construction	\$905,000

### Expenditure Plan by Fiscal Year and Funding Source





## 50049: High Service Pump Station Chemical Piping Replacement

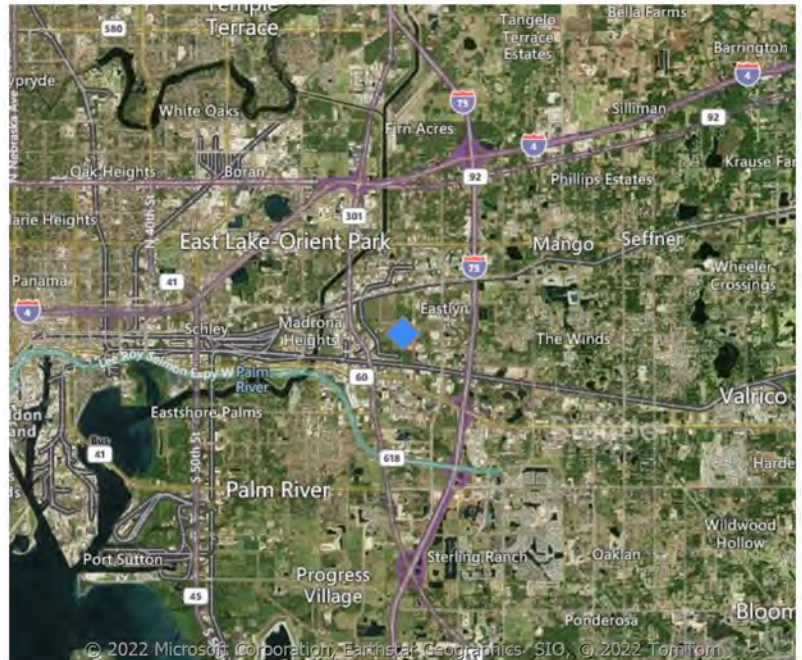
<b>Project Manager</b>	James Smith
<b>Construction Manager</b>	Ryan Morriss
<b>Status</b>	Design

### Project Description

This project is located at the High Service Pump Station and includes replacing the Ammonia Hydroxide and Sodium Hypochlorite chemical piping systems, which includes the above and below ground chemical piping and the in-pipe chemical injection points. As of October 2018, this project also includes the replacement of the underground Sodium Hydroxide chemical piping system at the Alkalinity Adjustment Facility for which a leak was discovered in the primary injection line.

### Project Location

Hillsborough County



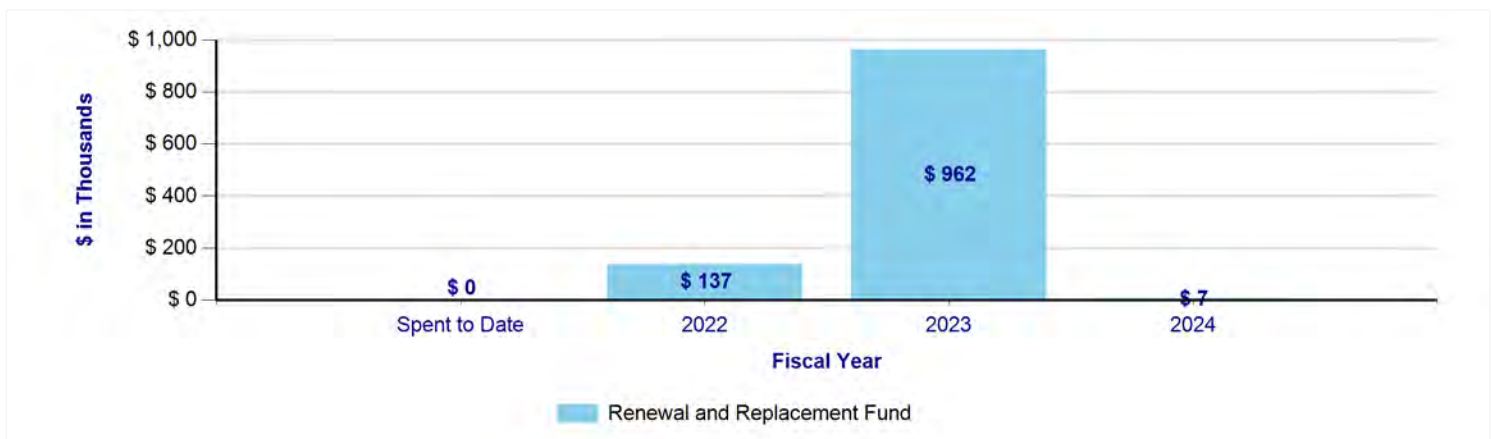
### Project Schedule

Project Phase	Start Date	End Date
Design	12/1/2016	4/8/2022
Bidding	4/11/2022	9/23/2022
Construction	9/26/2022	8/4/2023
Close-Out	8/7/2023	11/20/2023

### Project Budget by Project Phase

Project Phase	Amount
Design	\$100,000
Bidding	\$15,000
Construction	\$975,300
Close-Out	\$15,000

### Expenditure Plan by Fiscal Year and Funding Source



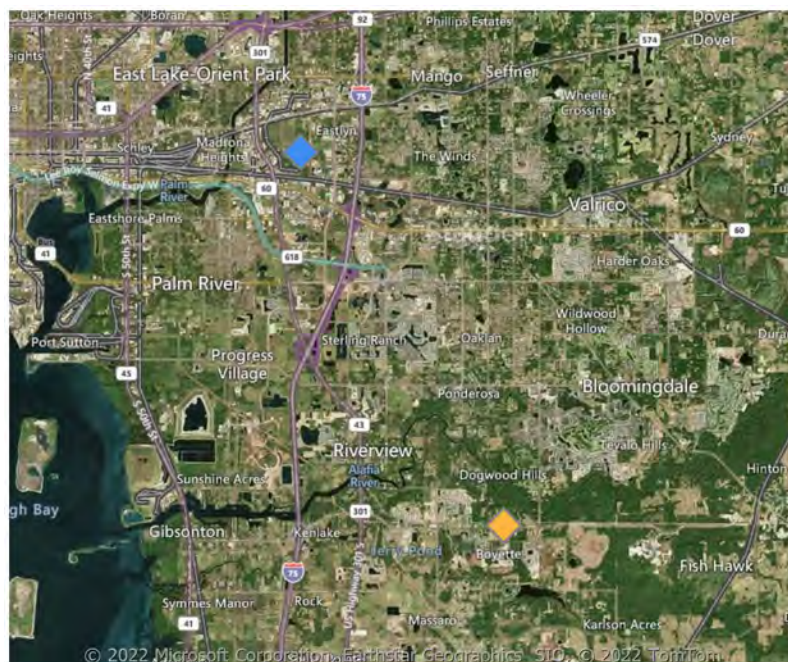
<b>Project Manager</b>	Danielle Keirse
<b>Construction Manager</b>	Richard Menzies
<b>Status</b>	Design

### Project Description

This project will consist of improving or replacing the existing cathodic protection systems along the Tampa Bypass Canal Transmission Main as well as improvements at the Reservoir Off Stream Pump Station which involves bonding a riser pipe to the existing ICCP system. These issues were identified in the 2016 and 2019 cathodic protection survey performed by Tampa Bay Water's corrosion control contractor.

### Project Location

Multiple



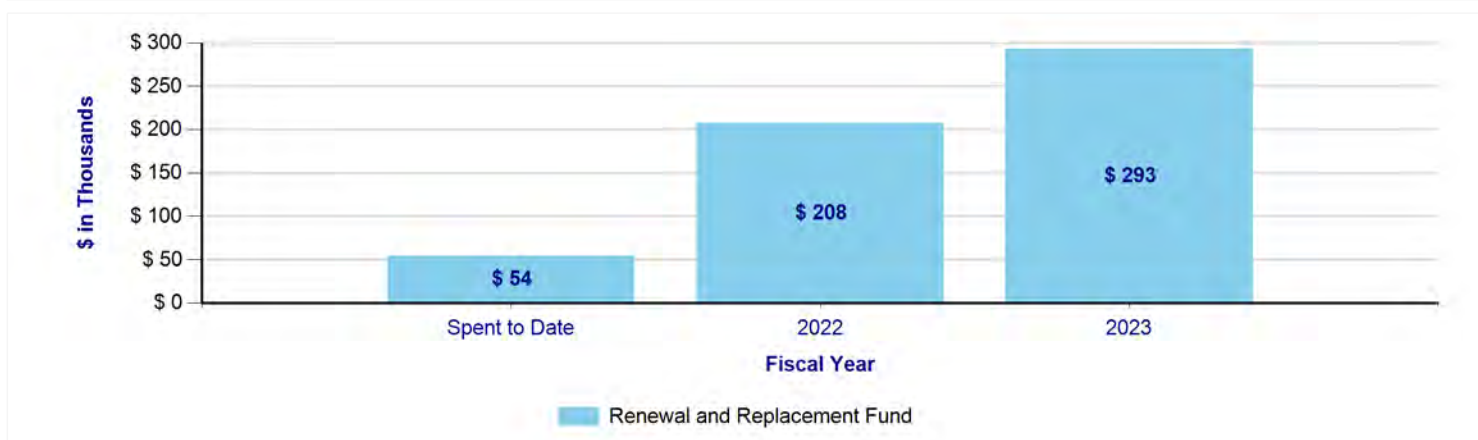
### Project Schedule

Project Phase	Start Date	End Date
Planning	6/3/2019	7/12/2019
Professional Services Selection	7/15/2019	12/15/2019
Design	12/16/2019	3/19/2022
Bidding	3/20/2022	6/20/2022
Construction	6/21/2022	3/20/2023
Close-Out	3/21/2023	5/15/2023

### Project Budget by Project Phase

Project Phase	Amount
Design	\$90,994
Bidding	\$3,800
Construction	\$440,106
Close-Out	\$20,100

### Expenditure Plan by Fiscal Year and Funding Source



## **Professional Services Selection Phase Projects**

No Projects in this Phase



## **Planning Phase Projects**

<b>Project No.</b>	<b>Project Name</b>
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01611 :	South Hillsborough Wellfield (New Wellfield via SHARP Credits): Feasibility
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09015 :	Tampa Bay Desalination Water Treatment Plant Expansion: Feasibility
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09016 :	2023 Long-Term Master Water Plan
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50051 :	Cypress Creek Water Treatment Plant Chemical Piping Replacement
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50074 :	C.W. Bill Young Regional Reservoir-Compressors Replacement
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50075 :	Surface Water Treatment Plant: Renewal and Replacement Program-Placeholder
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## 01611: South Hillsborough Wellfield (New Wellfield via SHARP Credits)-Feasibility

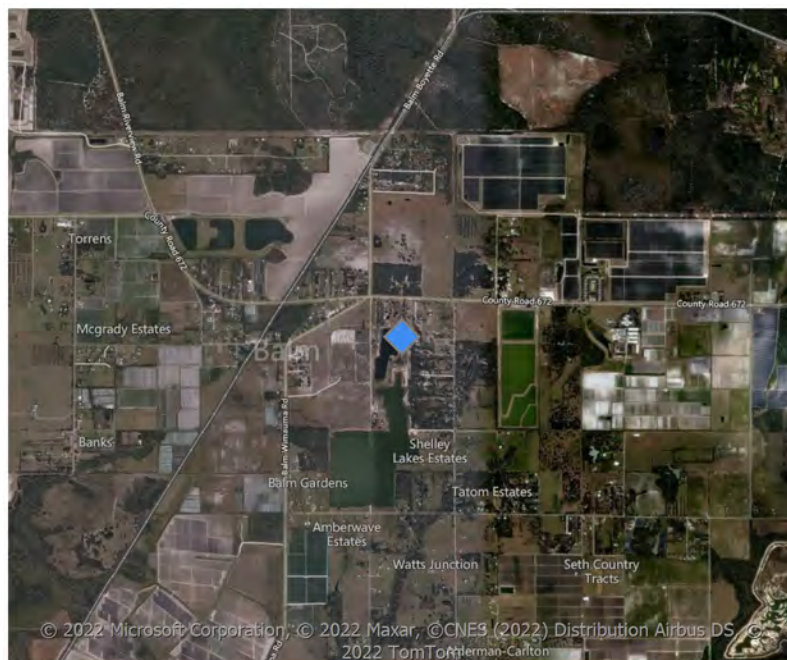
<b>Project Manager</b>	Danielle Keirse
<b>Construction Manager</b>	Richard Menzies
<b>Status</b>	Planning

### Project Description

The South Hillsborough Wellfield Feasibility Study purpose is to further assess the feasibility of developing a new wellfield and associated collection mains and water treatment facilities using credits from the injection of reclaimed water by Hillsborough County. The feasibility project includes a test production well and monitor wells, aquifer performance test, wellfield modeling and water use permit application, collector main layout and water treatment facilities required to meet Exhibit D of the Master Water Supply Contract and finalized negotiations with Hillsborough County for aquifer recharge credits, which in total will enable Tampa Bay Water to determine the cost and capacity of the new wellfield. The overall objective of the project is to evaluate the feasibility of increasing Tampa Bay Water's available groundwater supply by 7.5 mgd.

### Project Location

Hillsborough County



### Project Schedule

Project Phase	Start Date	End Date
Planning	10/8/2018	2/28/2022
Close-Out	3/1/2022	4/18/2022

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$2,931,932
Close-Out	\$132,125

### Expenditure Plan by Fiscal Year and Funding Source



## 09015: Tampa Bay Desalination Water Treatment Plant Expansion-Feasibility

<b>Project Manager</b>	Danielle Keirse
<b>Construction Manager</b>	Danielle Keirse
<b>Status</b>	Planning

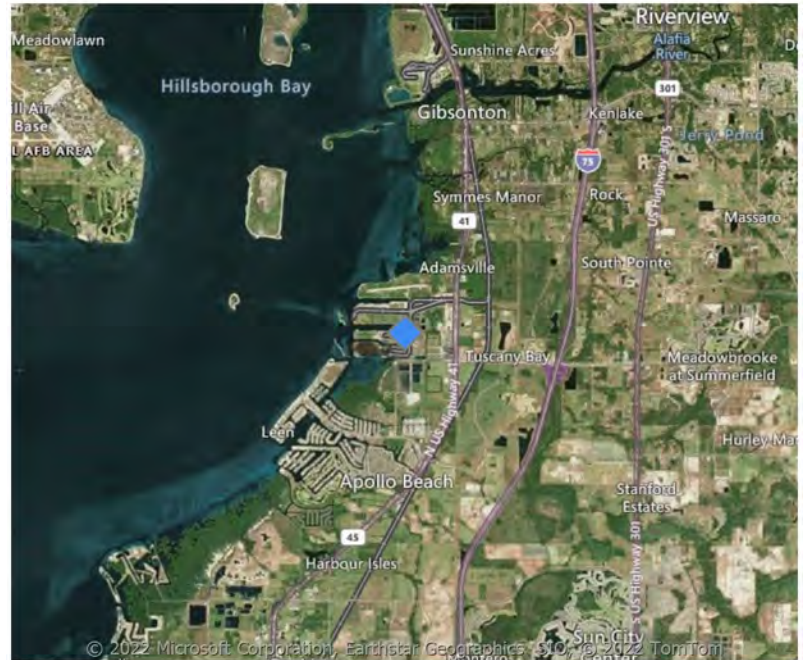
### Project Description

The purpose of this project is to further assess the feasibility of expanding the existing Desalination Water Treatment Plant to maximize the available yield of Tampa Bay Water's regional water supplies. This project would leverage the existing facility as much as possible for meeting projected regional water demands as well as inform design decisions for the future expansion. The overall objective of the project is to increase Tampa Bay Water's available supply by 10 MGD by expanding the Desalination facility as one of the supply options to meet Tampa Bay Water long term water supply needs as identified in the 2018 Long-term Master Water Plan Update for the 2020 – 2040 planning horizon. The Desalination Water Treatment Plant is part of Tampa Bay Water's alternative water supply system that also includes the Regional C.W. Bill Young Regional Reservoir, the Regional Surface Water Treatment Plant, and the Regional Facility Site High Service Pump Station.

Note: This project will receive up to \$1,500,000 through the SWFWMD's Cooperative Funding Initiative.

### Project Location

Hillsborough County



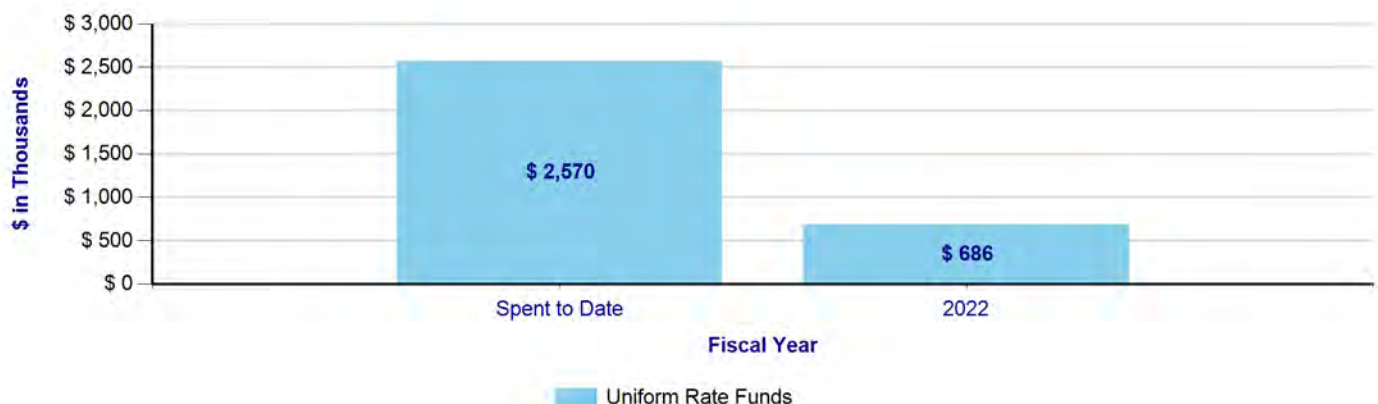
### Project Schedule

Project Phase	Start Date	End Date
Professional Services Selection	5/1/2019	11/4/2019
Planning	11/4/2019	12/6/2021
Close-Out	12/6/2021	2/21/2022

### Project Budget by Project Phase

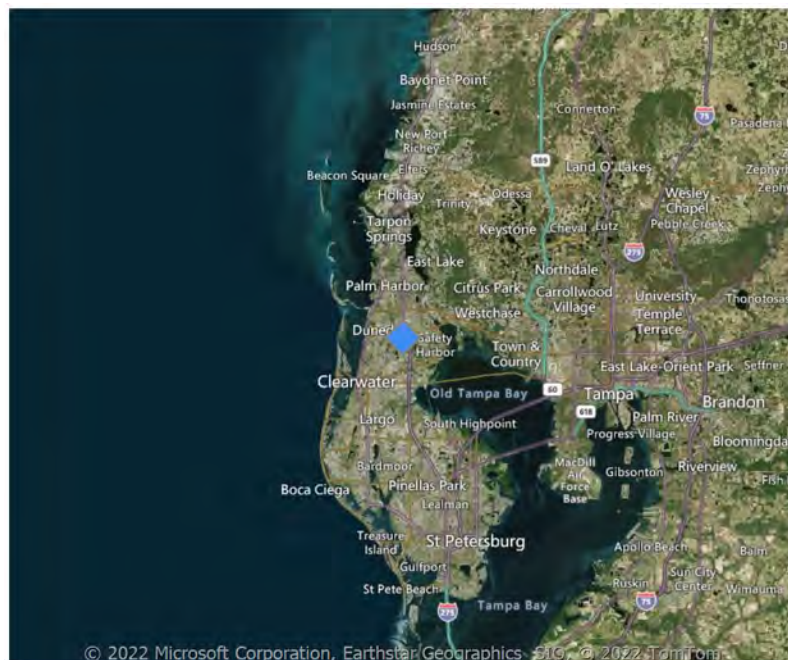
Project Phase	Amount
Planning	\$3,207,008
Close-Out	\$112,992

### Expenditure Plan by Fiscal Year and Funding Source



Project Location	
	Multiple

The 2023 Long-term Master Water Plan was initiated in January 2019 and is scheduled to be presented to the Board for approval in December 2023. The Plan will evaluate potential new supplies that could meet the 2040 regional drinking water demands, as well as other agency- wide efforts such as long-term demand forecast, demand management and conservation activities, source water quality and protection, and climate change adaptation and resiliency.



Project Budget by Project Phase	
Project Phase	Amount
Planning	\$1,400,000
Close-Out	\$100,000

Fiscal Year	Uniform Rate Funds (\$ in Thousands)
2022	\$576
2023	\$793
2024	\$131



## 50051: Cypress Creek Water Treatment Plant Chemical Piping Replacement

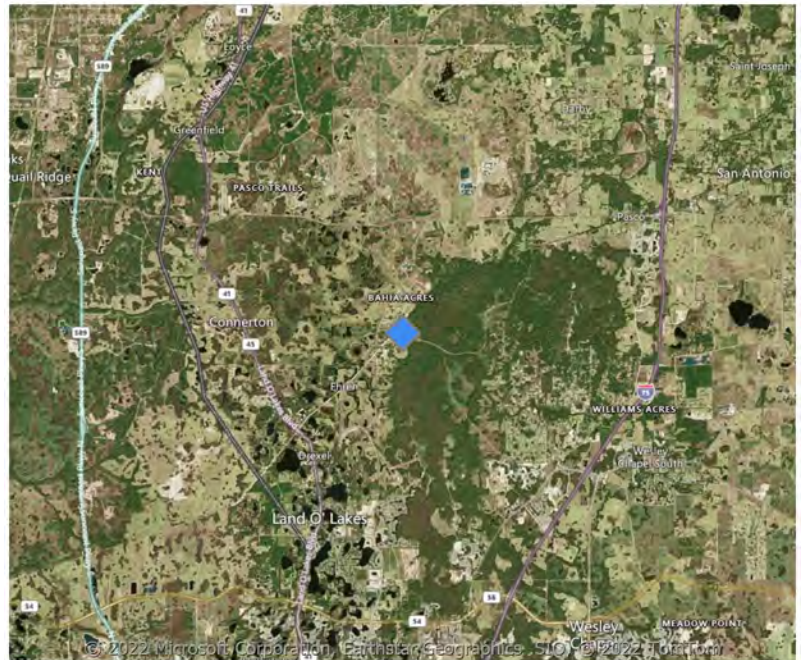
<b>Project Manager</b>	James Smith
<b>Construction Manager</b>	Richard Menzies
<b>Status</b>	Planning

### Project Description

This project is located at the Cypress Creek Water Treatment Plant and includes evaluating the replacement of the existing chemical feed systems for (A) Sodium Hydroxide (NaOH), (B) Ammonium Hydroxide (NH3), and (C) Sodium Hypochlorite (NaOCl). Will include the above and below ground chemical piping, chemical pumps, bulk chemical tanks, and in-pipe chemical injection points.

### Project Location

Pasco County



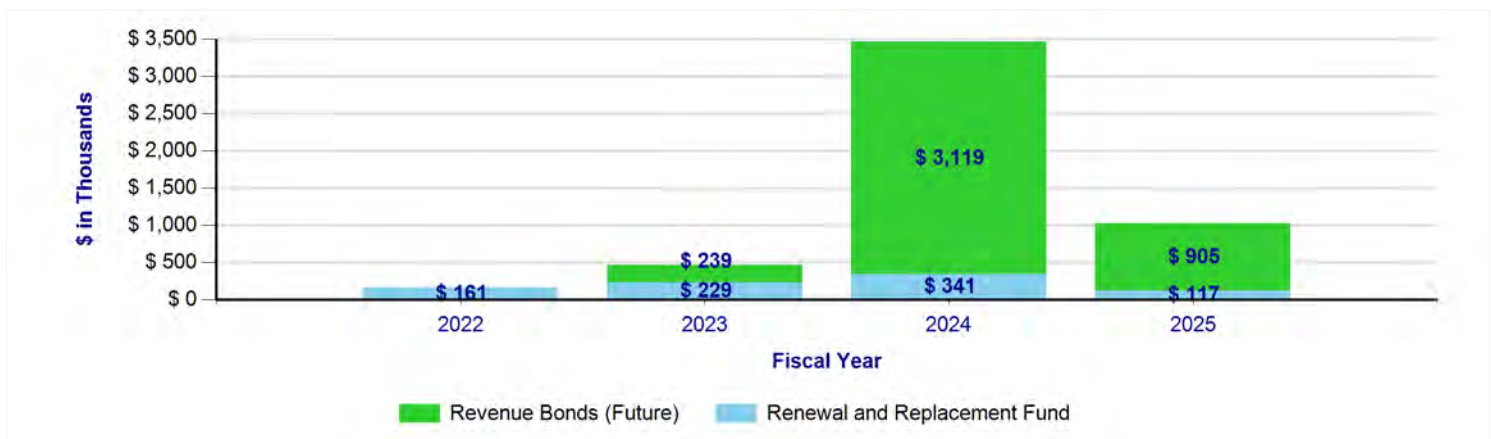
### Project Schedule

Project Phase	Start Date	End Date
Design	1/10/2022	3/29/2023
Bidding	3/29/2023	9/4/2023
Construction	9/4/2023	1/6/2025
Close-Out	1/6/2025	2/17/2025

### Project Budget by Project Phase

Project Phase	Amount
Construction	\$4,194,000
Close-Out	\$69,000
Engineering Services	\$161,000
Engineering Services	\$687,000

### Expenditure Plan by Fiscal Year and Funding Source



## 50074: C.W. Bill Young Regional Reservoir-Compressors Replacement

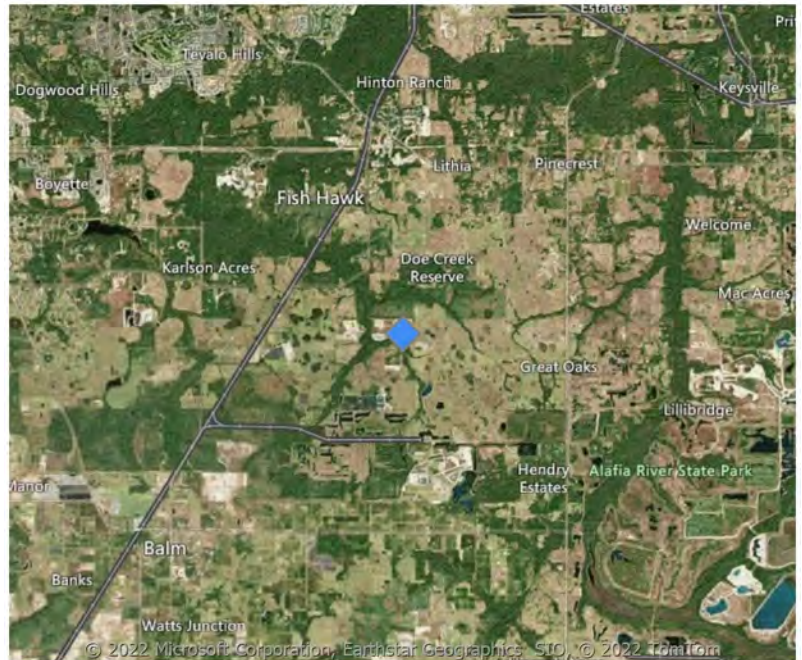
<b>Project Manager</b>	James Smith
<b>Construction Manager</b>	Richard Menzies
<b>Status</b>	Planning

### Project Description

This project is located at the C.W. Bill Young Regional Reservoir and includes replacement of three existing oil free compressors and addition of one new oil free compressor. An auxiliary power connection will also be provided to allow a mobile auxiliary power source to be connected in the event of a commercial power outage.

### Project Location

Hillsborough County



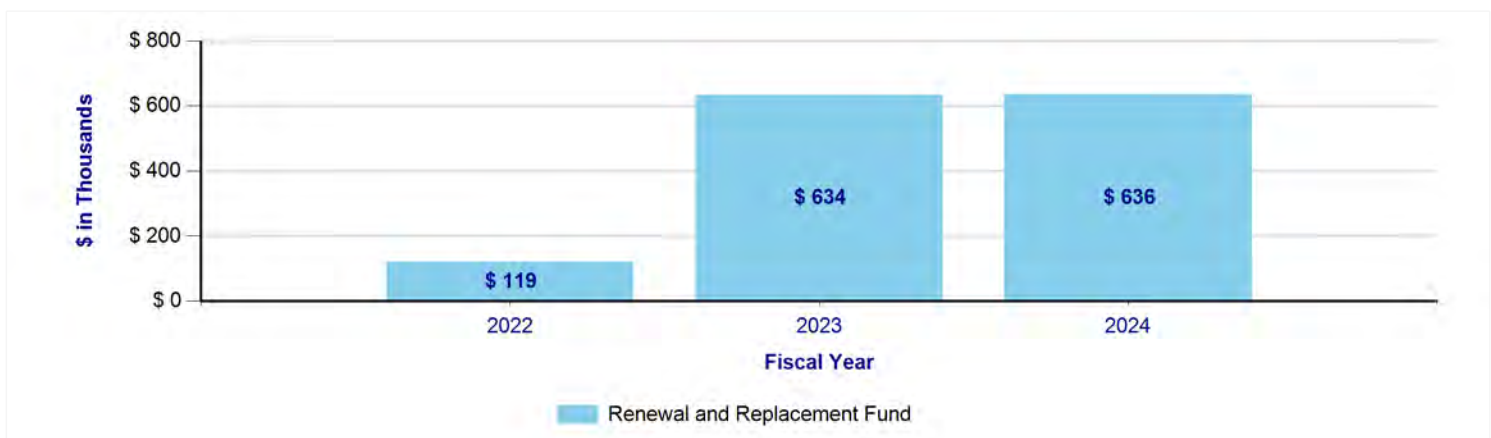
### Project Schedule

Project Phase	Start Date	End Date
Planning	12/1/2021	12/28/2021
Professional Services Selection	12/29/2021	4/18/2022
Design	4/19/2022	12/8/2022
Bidding	12/9/2022	3/20/2023
Construction	3/21/2023	3/25/2024
Close-Out	3/26/2024	5/20/2024

### Project Budget by Project Phase

Project Phase	Amount
Professional Services Selection	\$119,000
Bidding	\$24,000
Construction	\$1,162,000
Close-Out	\$84,000

### Expenditure Plan by Fiscal Year and Funding Source





## 50075: Surface Water Treatment Plant-Renewal and Replacement Program

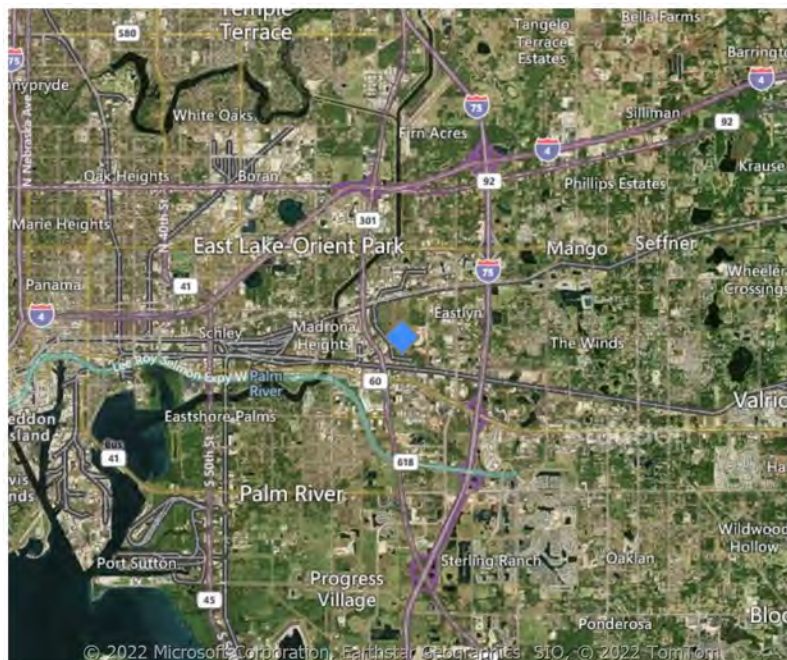
<b>Project Manager</b>	Deanna Hamilton
<b>Construction Manager</b>	Deanna Hamilton
<b>Status</b>	Planning

### Project Description

This is placeholder for future not yet determined Renewal and Replacement Projects at the Surface Water Treatment Plant. As projects are defined and prioritized these will be added as separate projects in the CIP and the corresponding costs deducted from this placeholder project.

### Project Location

Hillsborough County



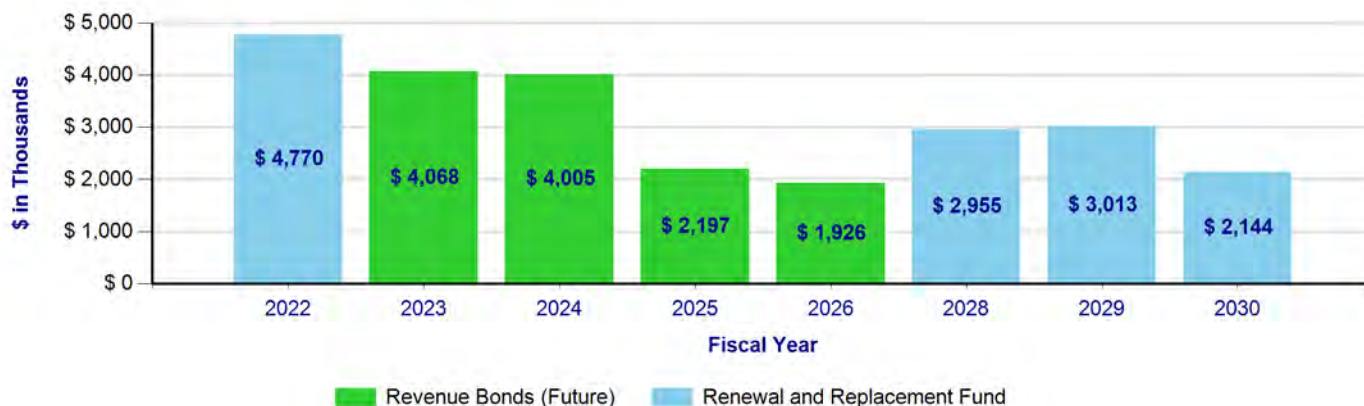
### Project Schedule

Project Phase	Start Date	End Date
Planning	10/4/2021	9/30/2030

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$25,079,000

### Expenditure Plan by Fiscal Year and Funding Source



## **Not Yet Started Projects**

<b>Project No.</b>	<b>Project Name</b>
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01602 :	Cypress Creek WF Pumps and Motors
01603 :	Cypress Creek WTP Yard Piping Valves
01604 :	Eldridge Wilde Wellfield Treatment Improvements
01605 :	Morris Bridge Underground Powerline
01606 :	S21 WF Pumps and Motors
01614 :	Alafia Pump Station Motors
01700 :	Future-Renewal & Replacement-Placeholder
06004 :	Tampa Bay Desalination Plant Reverse Osmosis Trench Supports
06321 :	South Operations and Maintenance Building
07005 :	South Pasco Wellfield and Treatment Improvements
07007 :	Cypress Creek WTP Chemical System Upgrades
07029 :	Cypress Creek Water Treatment Plant Drainage Improvements
07030 :	Cypress Creek Roads and Security Upgrades
07061 :	South Pasco Wellfield Underground Commercial Powerline
07062 :	Cypress Creek and HSPS Fiber Optic tie-in
07064 :	Ground Storage Tanks Fall Protection
07065 :	Maytum Vault Confined Space Removal
07070 :	TBC MLK Pumps Refurbishment
07100 :	Future-Information Technology-Placeholder
07540 :	South Hillsborough Wellfield-Phase 1
07603 :	SCADA-Software Features
07605 :	SCADA-System Monitoring
07606 :	SCADA-Management Cluster and HA-DA Enhancements
07608 :	SCADA-Quality Assurance Enhancements
09010 :	Tampa Bay Desalination Upgrade/Replace PLC/SCADA System
09108 :	Cypress Creek Wellfield Surface Water Improvements-Phase 3
11005 :	Integrated Program Manager Consultant Services
11009 :	Starkey Wellfield Collection Main Assessment
11010 :	Cypress Creek Collection Main Condition Assessment
50022 :	Morris Bridge Booster Station Pumps 1 and 2 Replacement
50023 :	Starkey Wellfield Improvements
50037 :	Cypress Creek WTP Stationary Generators
50041 :	Northwest Hillsborough Wellfield Improvements
50042 :	Cosme-Odessa Wellfield Improvements



**Project No.      Project Name**

50043 : Cypress Creek Headwall Erosion Repair  
50047 : Morris Bridge Chemical Piping Replacement  
50048 : BUD 5 Chemical Piping Replacement  
50052 : High Service Pump Station Ball Valve Replacement  
50055 : Tampa Bay Desalination VFDs Replacement  
50056 : South Pasco Transmission Main Pipe Repair  
50057 : Tampa Bay Desalination Plant Belt Filter Press Replacement  
50058 : Tampa Bay Desalination Plant Piping Replacement  
50059 : Harney Pump Station Pumps and Motors Replacement  
50060 : Keller Hydrogen Sulfide Facility Roofing Replacement  
50061 : Odessa Booster Station Pumps Replacement  
50062 : Tampa Bay Desalination Pipeline Reliability - Phase II  
50063 : BUD Wells Pumps and Motors Replacement  
50065 : Carrollwood Wells Electrical Improvement  
50068 : Keller Hydrogen Sulfide Aeration Blowers  
50069 : Repump Station Generator  
50070 : Repump Station Variable Frequency Drives  
50071 : Cypress Creek Pump Station Variable Frequency Drives  
50072 : Keller Hydrogen Sulfide Chemical Feed System  
50073 : Cypress Creek Water Treatment Plant 72-Inch Valve  
50076 : C.W. Bill Young Regional Reservoir-Dissolved Air Lines Replacement  
52002 : Carrollwood Pumps and Motors Refurbishment  
52003 : Lake Bridge Pumps and Motors  
52005 : Tampa-Hillsborough Interconnect Pump Station  
90003 : System Configuration III-New Water Supply-Placeholder  
TBD : Water Quality Improvements Program-Placeholder

## 01602: Cypress Creek WF Pumps and Motors

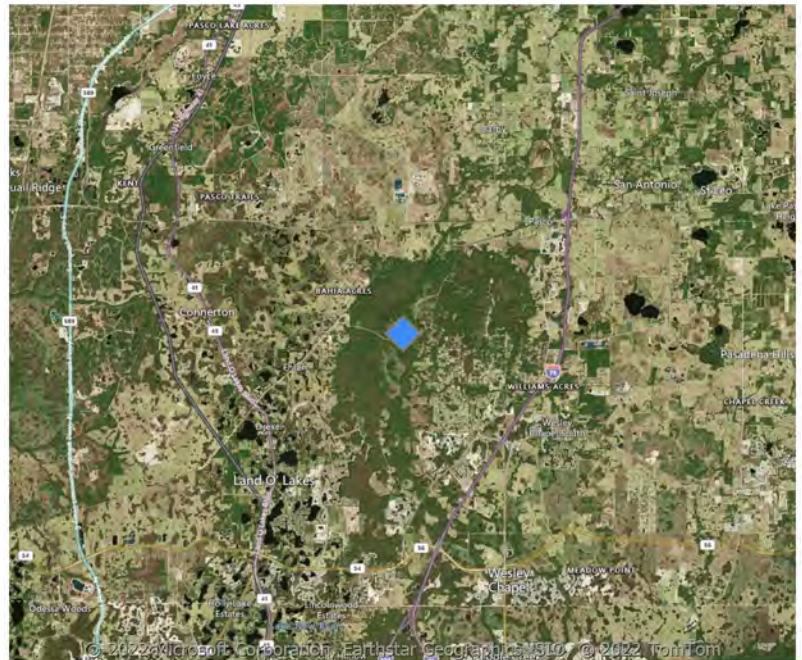
<b>Project Manager</b>	Nicole Thomas
<b>Construction Manager</b>	Richard Menzies
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Cypress Creek Wellfield (Pasco County) and includes the replacement of 13 pumps and motors and improving or replacing the well houses to meet the current electrical code requirements.

### Project Location

Pasco County



### Project Schedule

Project Phase	Start Date	End Date
Planning	4/1/2022	6/23/2022
Professional Services Selection	6/24/2022	3/6/2023
Design	3/7/2023	8/26/2024
Bidding	8/27/2024	4/30/2025
Construction	5/1/2025	12/23/2026
Close-Out	12/24/2026	4/19/2027

### Project Budget by Project Phase

Project Phase	Amount
Design	\$695,000
Bidding	\$35,000
Construction	\$4,883,000
Close-Out	\$398,000

### Expenditure Plan by Fiscal Year and Funding Source



## 01603: Cypress Creek WTP Yard Piping Valves

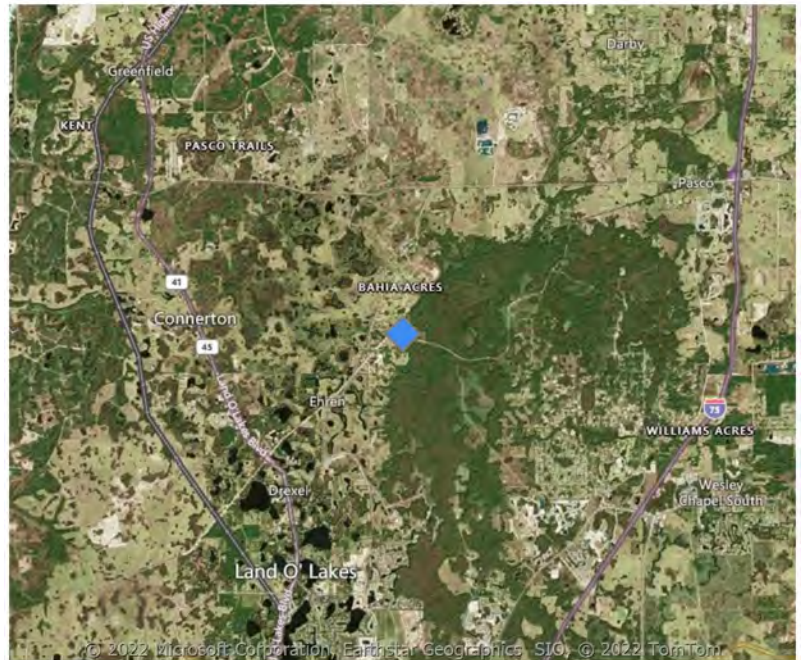
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Cypress Creek Water Treatment Plant. The project includes the replacement of three 42-inch butterfly valves.

### Project Location

Pasco County



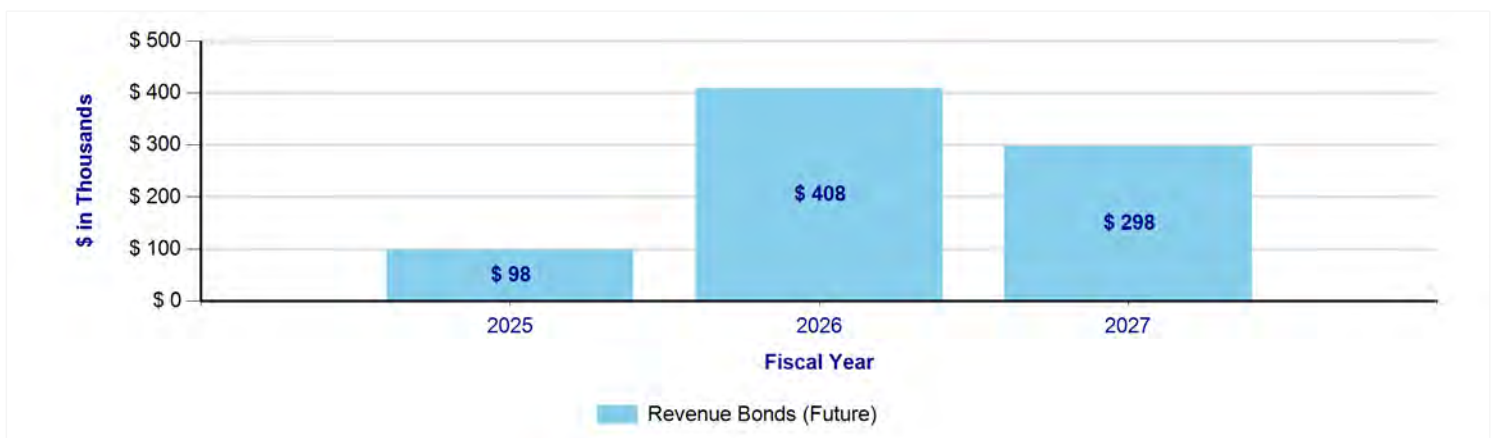
### Project Schedule

Project Phase	Start Date	End Date
Planning	8/25/2023	4/9/2024
Professional Services Selection	4/10/2024	10/3/2024
Design	10/4/2024	7/10/2025
Bidding	7/11/2025	1/29/2026
Construction	1/30/2026	2/25/2027
Close-Out	2/26/2027	6/3/2027

### Project Budget by Project Phase

Project Phase	Amount
Design	\$94,000
Bidding	\$10,000
Construction	\$649,000
Close-Out	\$51,000

### Expenditure Plan by Fiscal Year and Funding Source





## 01604: Eldridge Wilde Wellfield Treatment Improvements

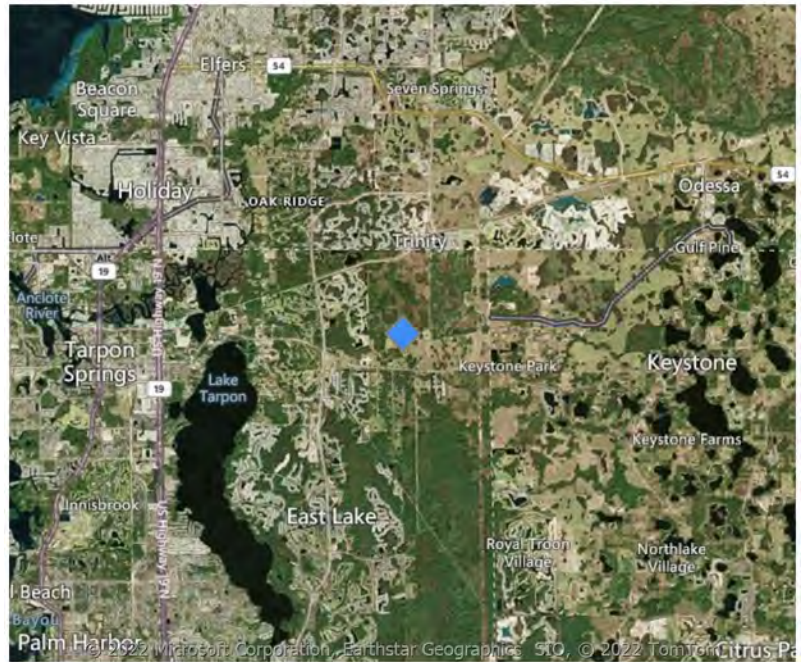
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Eldridge Wilde Hydrogen Sulfide Removal Facility which treats groundwater from the Eldridge Wilde Wellfield to remove hydrogen sulfide. The wellfield supplies an average flow of 11 million gallons per day and a maximum of 36 million gallons per day. The current system consists of a forced draft aeration system that is close to the end of its useful life. The project includes the replacement of the existing system with a new hydrogen sulfide ozone treatment. The project includes the design of oxygen storage, ozone generators, a side stream injector system, contact chambers, and ozone destruct units. This project may require additional property and/or construction easements from Pinellas County.

### Project Location

Pinellas County



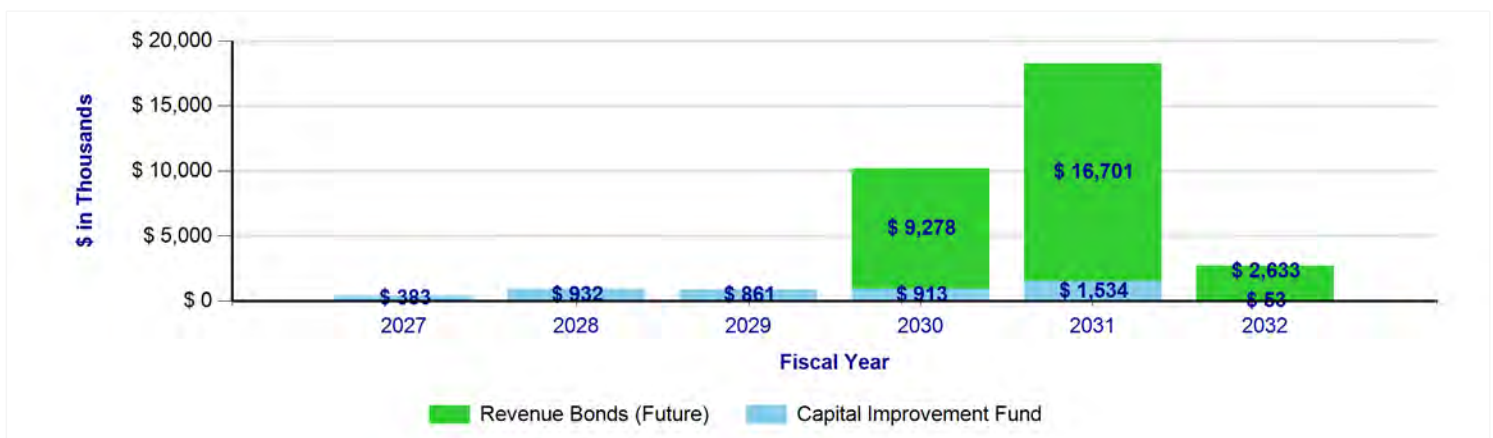
### Project Schedule

Project Phase	Start Date	End Date
Planning	10/1/2026	3/22/2027
Professional Services Selection	3/23/2027	12/13/2027
Design	8/17/2027	8/29/2029
Bidding	8/30/2029	3/11/2030
Construction	3/12/2030	10/13/2031
Close-Out	10/14/2031	2/23/2032

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$265,000
Design	\$1,899,000
Bidding	\$73,000
Construction	\$28,993,000
Close-Out	\$2,057,000

### Expenditure Plan by Fiscal Year and Funding Source



## 01605: Morris Bridge Underground Powerline

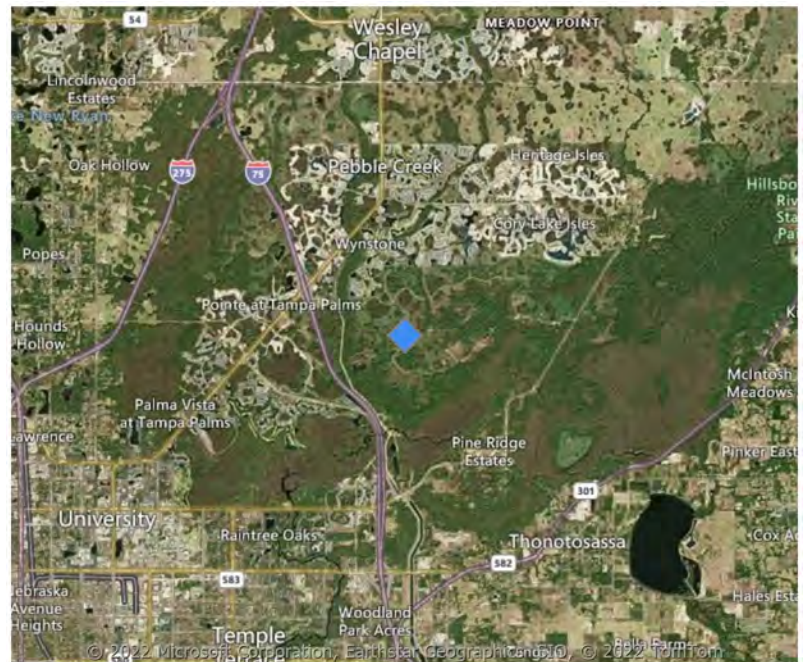
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Morris Bridge Wellfield and will replace about 90,000 LF of direct buried underground powerline that have reached the end of its useful life.

### Project Location

Hillsborough County



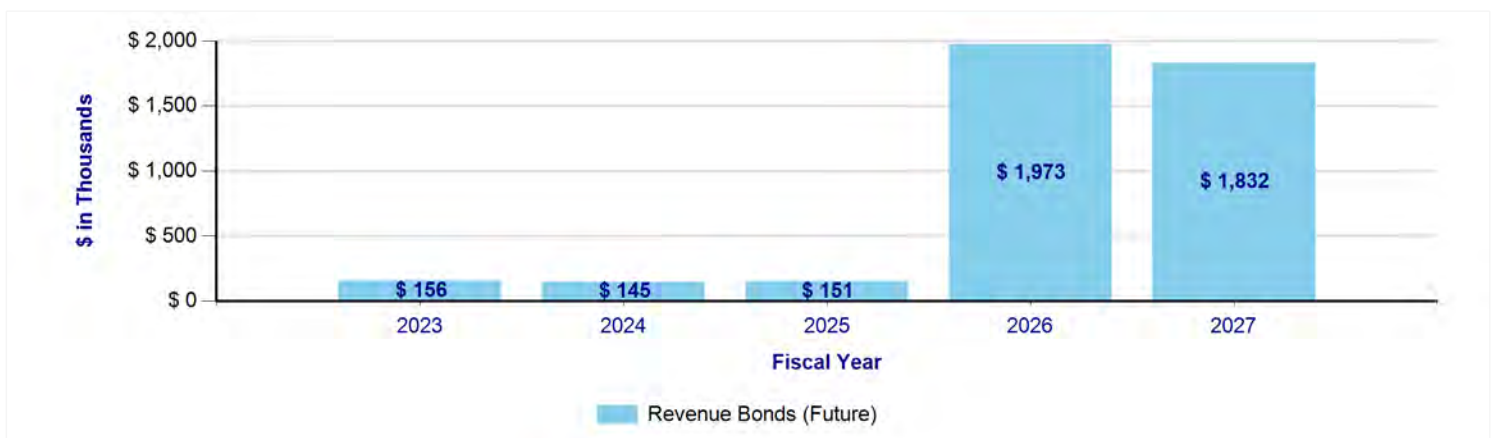
### Project Schedule

Project Phase	Start Date	End Date
Planning	2/1/2023	7/18/2023
Professional Services Selection	7/19/2023	12/28/2023
Design	1/12/2024	5/30/2025
Bidding	6/2/2025	12/29/2025
Construction	12/30/2025	2/15/2027
Close-Out	2/16/2027	5/24/2027

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$156,000
Design	\$280,000
Bidding	\$28,000
Construction	\$2,947,000
Close-Out	\$846,000

### Expenditure Plan by Fiscal Year and Funding Source





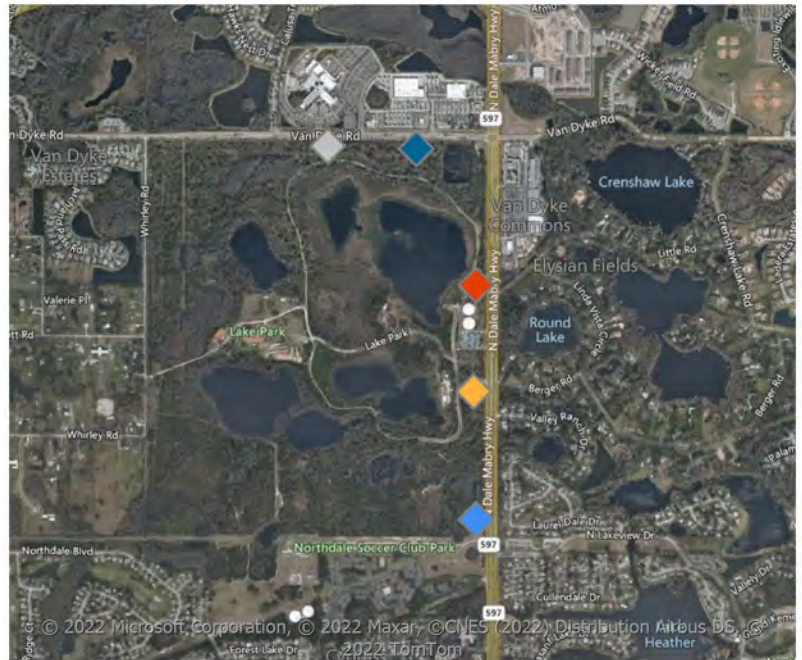
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Section 21 Wellfield and entails reconditioning or replacing the pumps and motors of five 100 HP wells (wells 5, 6, 8, 9, and 10). As part of this project, motors will be downsized to account for the new operating conditions.

### Project Location

Hillsborough County



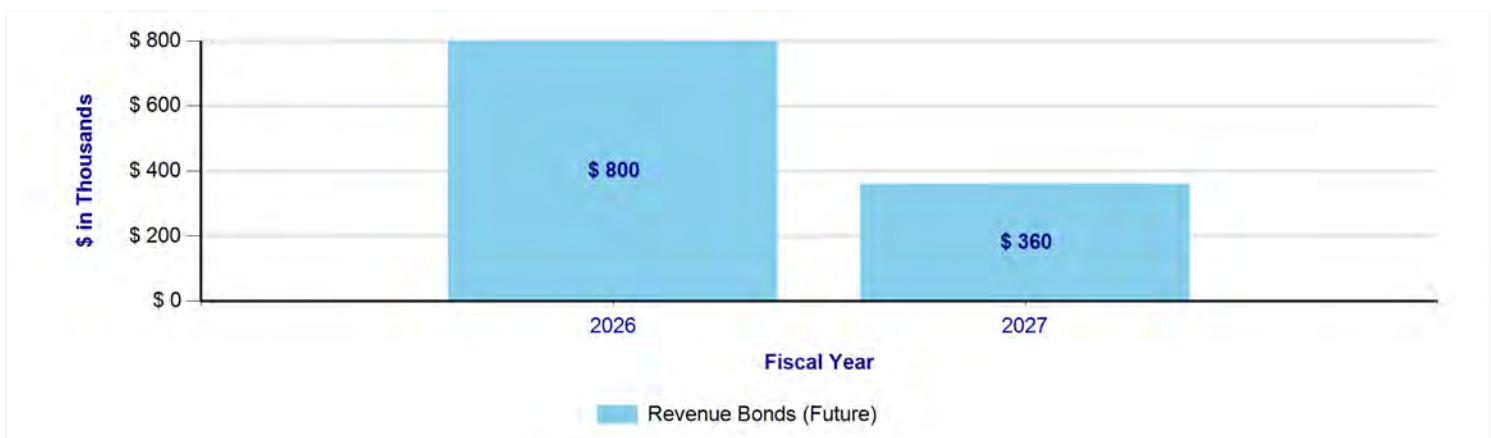
### Project Schedule

Project Phase	Start Date	End Date
Planning	2/1/2024	3/27/2024
Professional Services Selection	3/28/2024	7/31/2024
Design	8/1/2024	5/29/2025
Bidding	5/30/2025	10/20/2025
Construction	10/21/2025	11/16/2026
Close-Out	11/17/2026	1/8/2027

### Project Budget by Project Phase

Project Phase	Amount
Construction	\$910,000
Close-Out	\$250,000

### Expenditure Plan by Fiscal Year and Funding Source



## 01614: Alafia Pump Station Motors

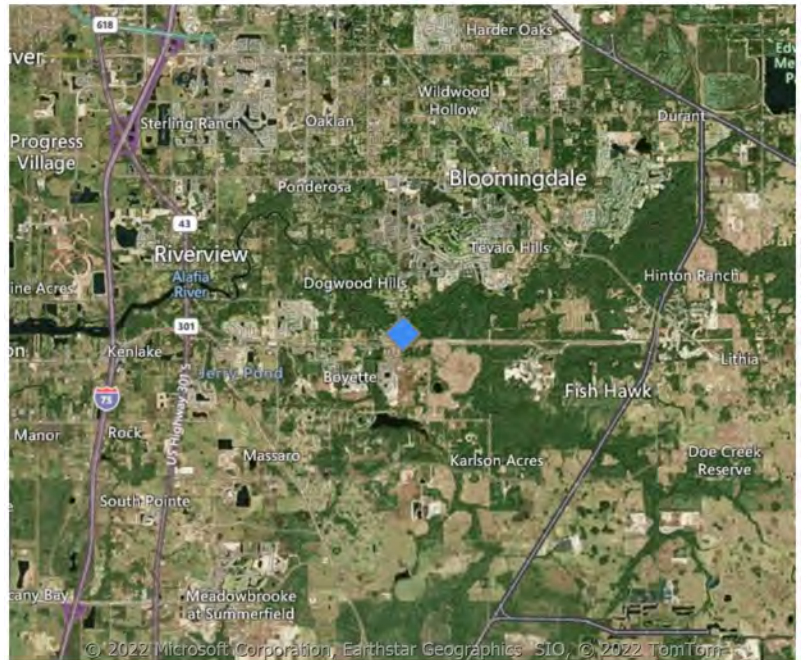
<b>Project Manager</b>	Eliana Lara
<b>Construction Manager</b>	Richard Menzies
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Alafia River Pump Station and includes the replacement of four 800 HP motors.

### Project Location

Hillsborough County



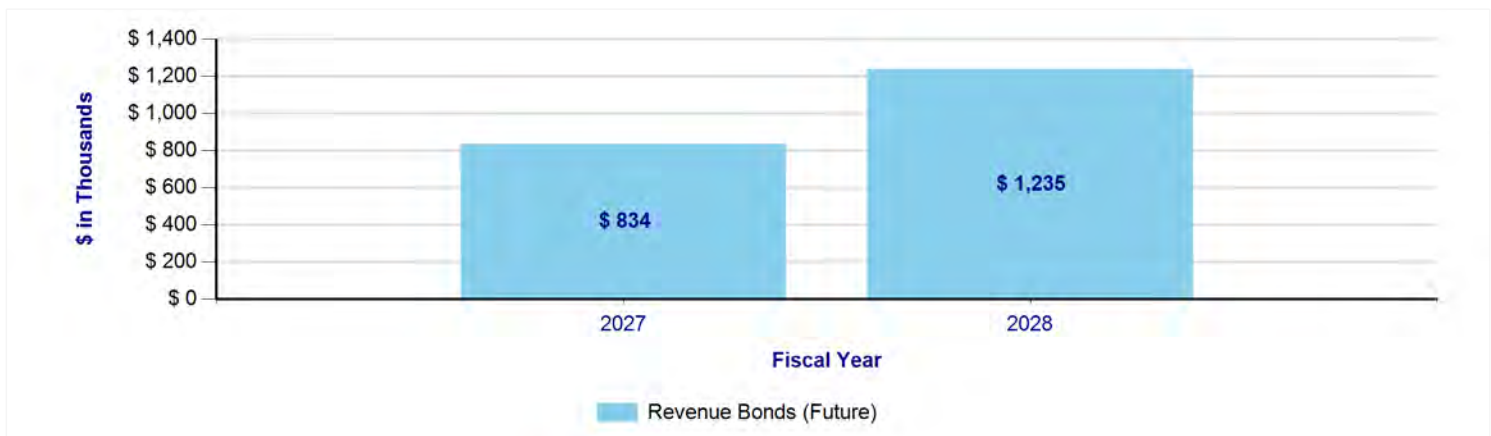
### Project Schedule

Project Phase	Start Date	End Date
Planning	7/7/2025	9/5/2025
Professional Services Selection	9/8/2025	2/20/2026
Design	2/23/2026	9/28/2026
Bidding	9/29/2026	4/29/2027
Construction	4/30/2027	4/20/2028
Close-Out	4/21/2028	8/21/2028

### Project Budget by Project Phase

Project Phase	Amount
Construction	\$1,941,000
Close-Out	\$128,000

### Expenditure Plan by Fiscal Year and Funding Source



## 01700: Future-Renewal & Replacement-Placeholder

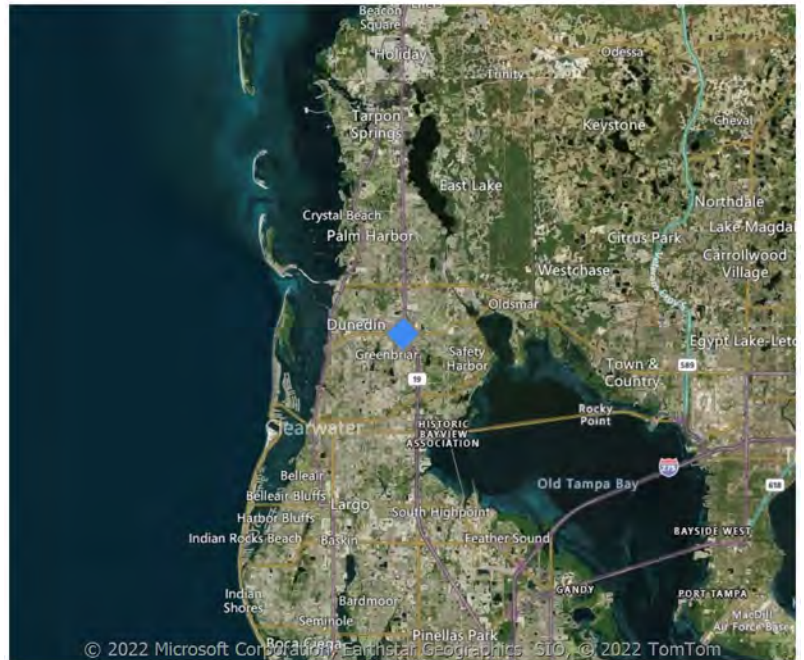
<b>Project Manager</b>	Maribel Medina
<b>Construction Manager</b>	Maribel Medina
<b>Status</b>	Not Yet Started

### Project Description

This is placeholder for future not yet determined Renewal and Replacement Projects. As projects are further defined these will be added as separate projects and the corresponding costs deducted from this placeholder project.

### Project Location

None



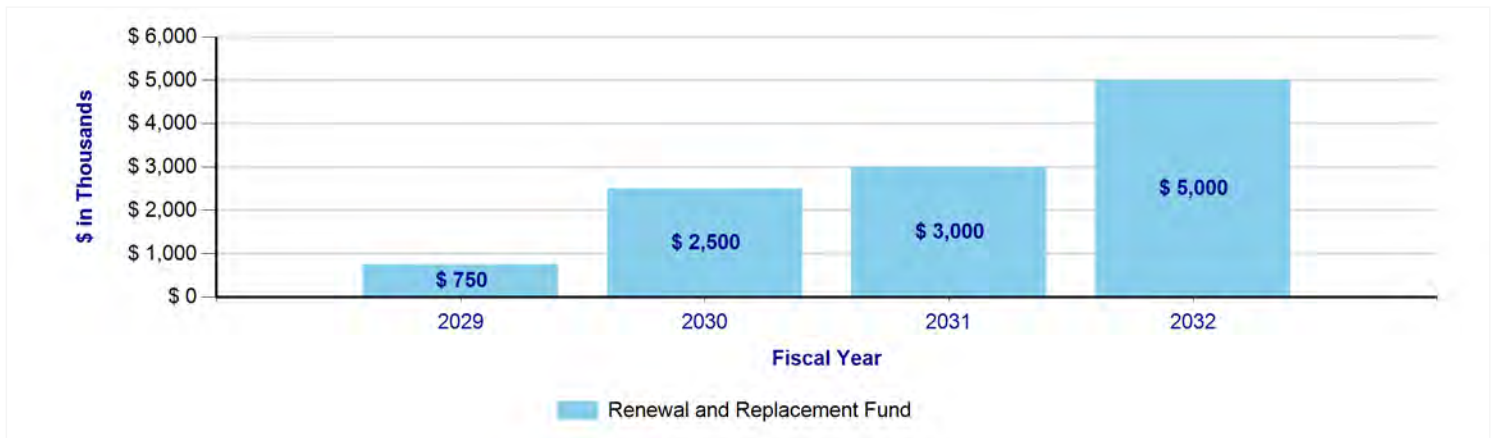
### Project Schedule

Project Phase	Start Date	End Date
Planning	10/2/2028	9/30/2032

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$11,250,000

### Expenditure Plan by Fiscal Year and Funding Source





## 06004: Tampa Bay Desalination Plant Reverse Osmosis Trench Supports

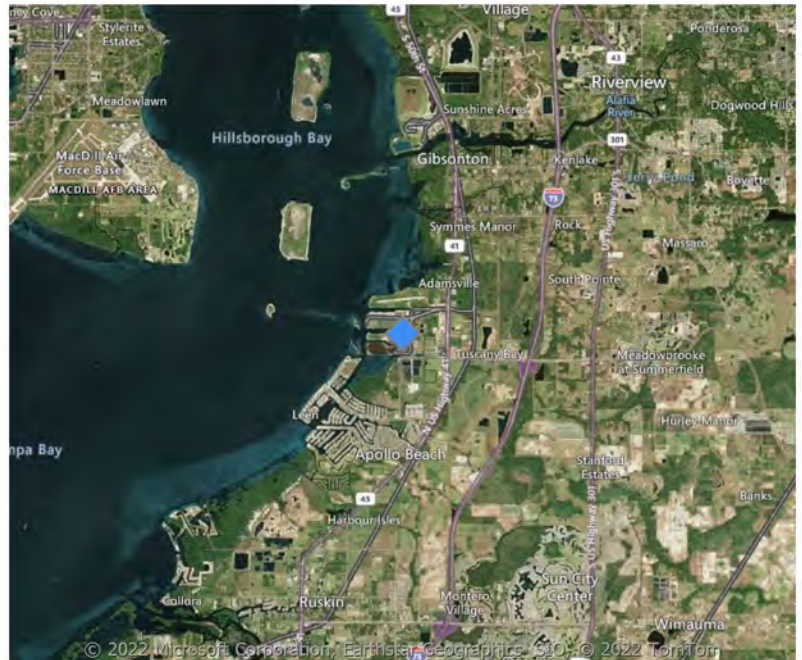
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Tampa Bay Desalination Plant and includes the replacement and repair of the existing reverse osmosis (RO) support system which consists of concrete and steel beams.

### Project Location

Hillsborough County



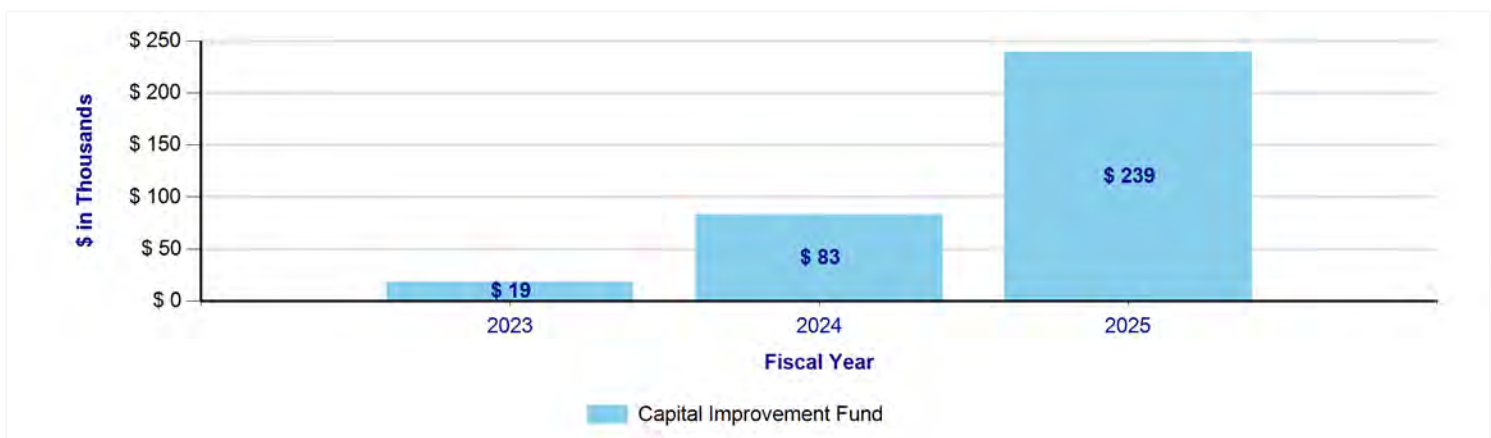
### Project Schedule

Project Phase	Start Date	End Date
Planning	9/1/2022	9/20/2022
Professional Services Selection	9/1/2022	12/29/2022
Design	12/30/2022	2/16/2024
Bidding	2/19/2024	6/14/2024
Construction	6/17/2024	9/19/2025
Close-Out	9/22/2025	12/15/2025

### Project Budget by Project Phase

Project Phase	Amount
Design	\$28,000
Bidding	\$2,000
Construction	\$311,000

### Expenditure Plan by Fiscal Year and Funding Source



## 06321: South Operations and Maintenance Building

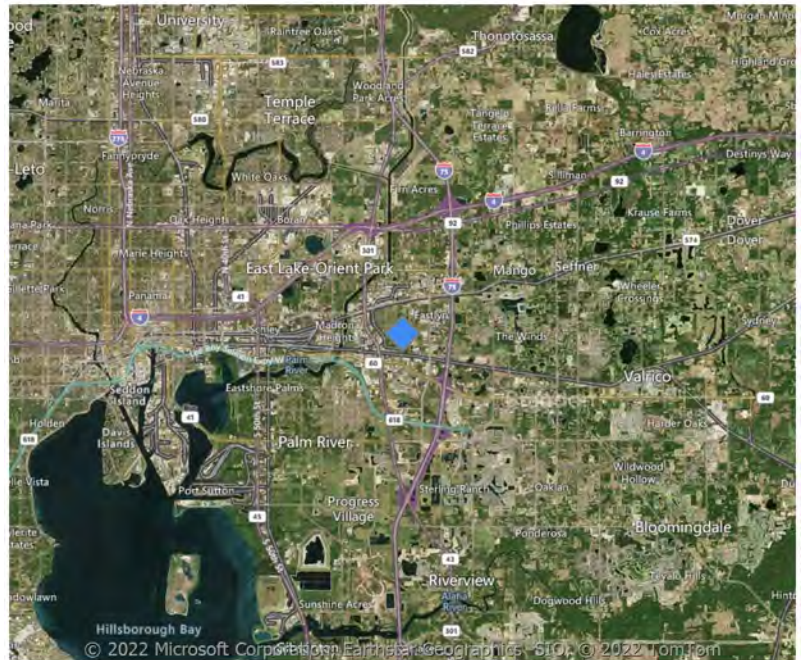
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Regional Facilities Site and includes: (1) Replacement of the existing leased office space with a 5,000 square feet permanent structure; (2) construction of a new 1,200 square feet with a 5-ton crane maintenance shop; and (3) construction of a new 2,000 square feet warehouse facility.

### Project Location

Hillsborough County



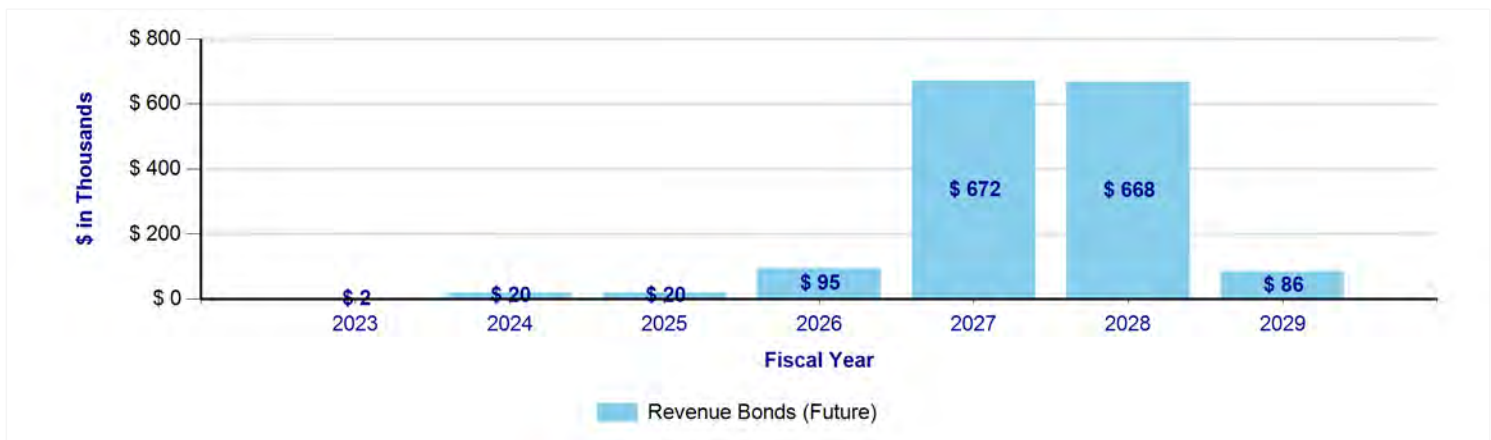
### Project Schedule

Project Phase	Start Date	End Date
Planning	4/7/2025	12/27/2025
Design	8/30/2023	5/12/2026
Bidding	5/13/2026	8/21/2026
Construction	8/24/2026	9/1/2028
Close-Out	9/4/2028	11/20/2028

### Project Budget by Project Phase

Project Phase	Amount
Design	\$53,000
Bidding	\$11,000
Construction	\$1,365,000
Close-Out	\$133,000

### Expenditure Plan by Fiscal Year and Funding Source





## 07005: South Pasco Wellfield and Treatment Improvements

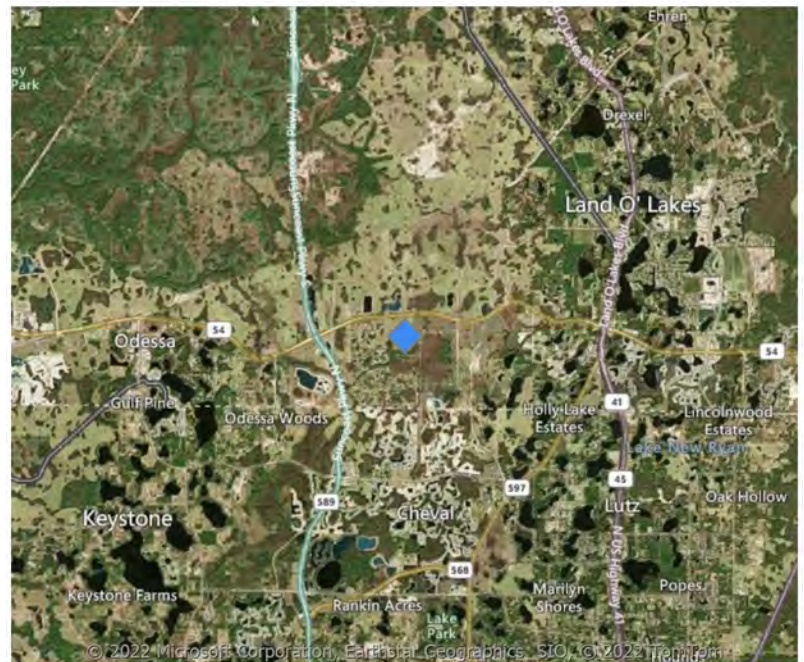
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the South Pasco Wellfield, and includes: (1) replacement of 8 pumps and motors at each production well sized to deliver supply to the new storage tank; (2) Modification of the ammonia feed location; (3) addition of a caustic feed location; (4) Addition of a 250,000 gallon tank for increased chlorine contact time; (5) install blending capability after the ammonia and caustic addition for blending with regional supply; (6) A new tap on the 42-inch steel regional transmission main; (7) Five new 80 horsepower pumps capable of pumping the supply to the high pressure north, or the low pressure system to the south; (8) A 7,200 square foot building to house the new pumps and VFDs; (9) a 8,000 gallons ammonia storage tank with metering pumps; (10) a 5,000 gallons (a full truck delivery is 3,750 gallons) of caustic tank and associated metering pumps and analyzers; (11) installation of piping from the upstream side of the meter pit that will provide fire flow for the facility; (12) installation of an energy recovery turbine that will generate energy from the drop in system pressure at the meter pit from the regional supply.

### Project Location

Pasco County



Project Schedule		
Project Phase	Start Date	End Date
Professional Services Selection	4/1/2016	4/26/2023
Design	4/27/2023	1/14/2025
Bidding	1/15/2025	6/26/2025
Construction	6/27/2025	8/24/2027

Project Budget by Project Phase	
Project Phase	Amount
Professional Services Selection	\$81,063
Design	\$1,136,500
Bidding	\$35,500
Construction	\$9,888,437

### Expenditure Plan by Fiscal Year and Funding Source



## 07007: Cypress Creek WTP Chemical System Upgrades

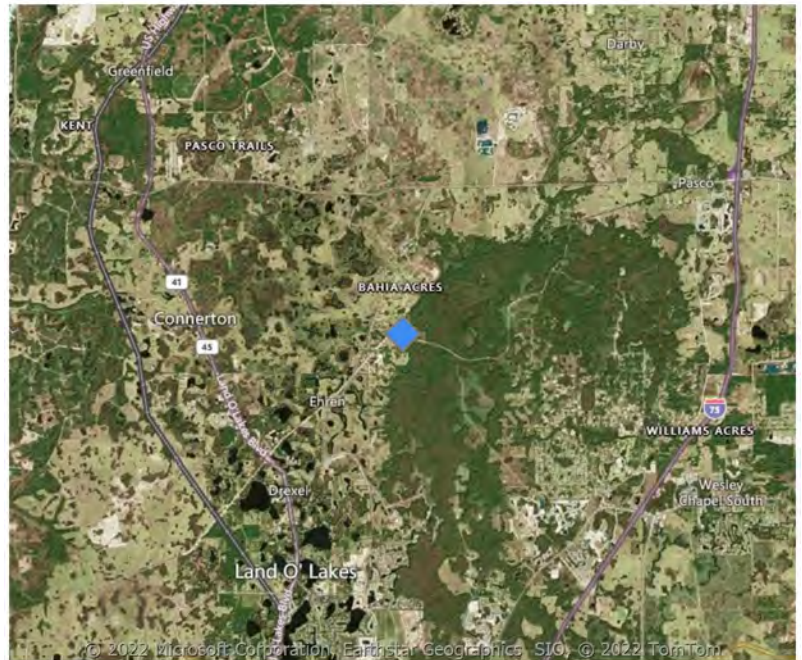
<b>Project Manager</b>	James Smith
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Cypress Creek Pump Station and includes: (1) Design and construction of an aqueous ammonia open building including: Roof or canopy; Spill containment wall capable of holding 110% of the tank volume; and Electrical and Instrumentation & Control; (2) Design and installation of a transfer pump, a redundant pump, and associated piping to transfer aqueous ammonia from the bulk storage tank to the two aqueous ammonia day tanks located inside the chemical building; and (3) Design and installation of a bulk aqueous ammonia tank capable of holding a total of 6,000 to 8,000 gallons of aqueous ammonia.

### Project Location

Pasco County



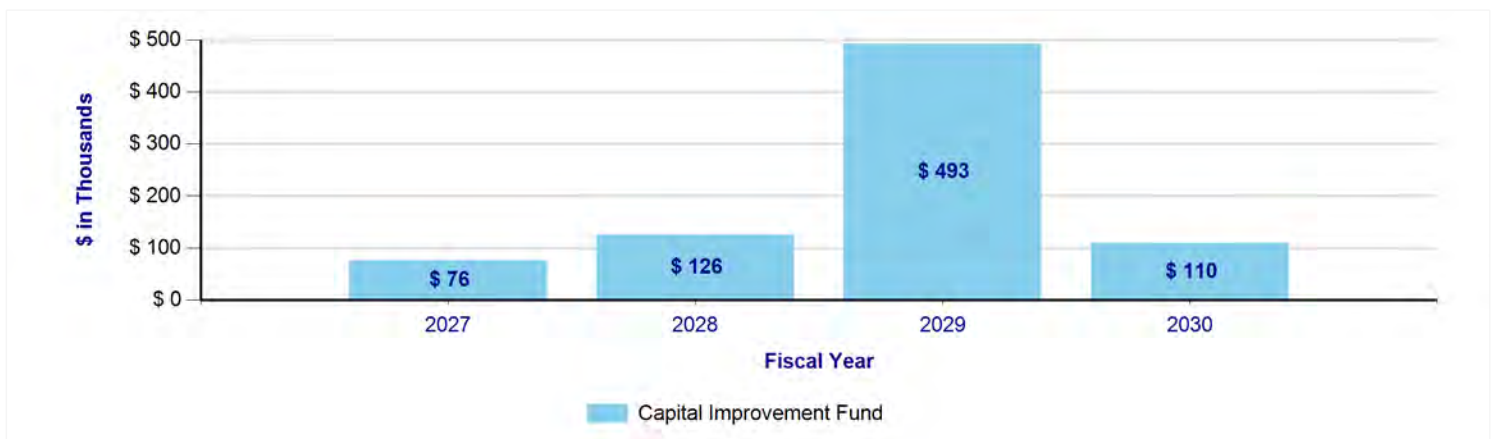
### Project Schedule

Project Phase	Start Date	End Date
Professional Services Selection	10/1/2024	11/26/2026
Design	11/27/2026	12/28/2027
Bidding	12/29/2027	7/19/2028
Construction	7/20/2028	12/19/2029

### Project Budget by Project Phase

Project Phase	Amount
Design	\$98,000
Bidding	\$5,000
Construction	\$701,000

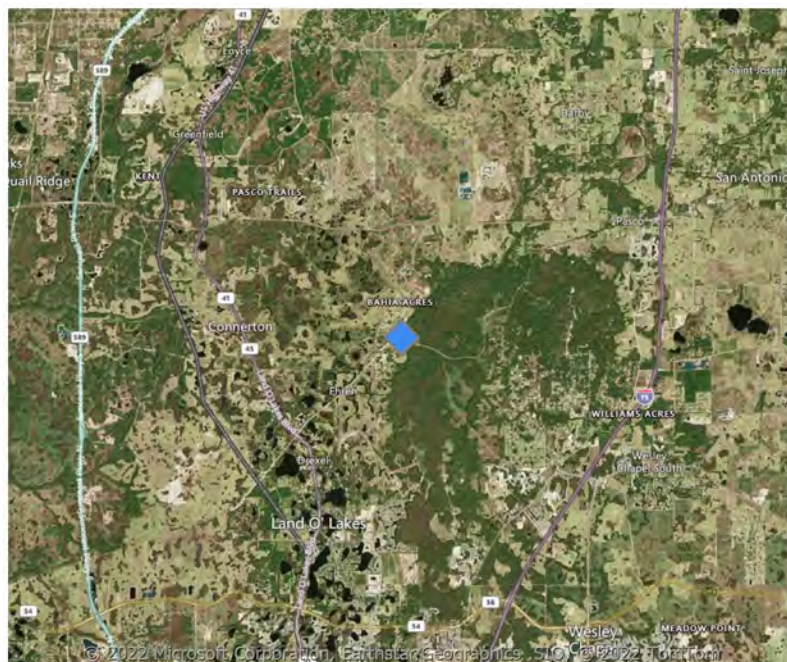
### Expenditure Plan by Fiscal Year and Funding Source





<b>Project Location</b>
Pasco County

This project is located at the Cypress Creek Pump Station and includes improvements to the existing fuel delivery road and storm water drainage system.



Project Budget by Project Phase	
Project Phase	Amount
Design	\$57,000
Bidding	\$2,000
Construction	\$285,625

Fiscal Year	Capital Improvement Fund (\$ in Thousands)
2026	\$45
2027	\$107
2028	\$193

## 07030: Cypress Creek Roads and Security Upgrades

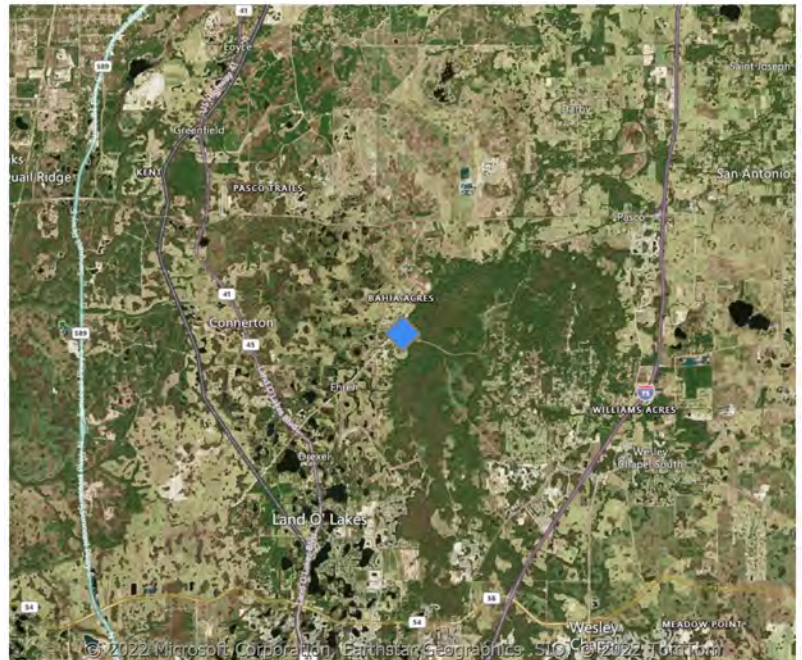
<b>Project Manager</b>	Danielle Keirse
<b>Construction Manager</b>	Justin Fox
<b>Status</b>	Not Yet Started

### Project Description

The project is located the Cypress Creek Pump Station and includes: (1) Relocating about 800 feet of fence south of the IEM building; (2) Relocation of the asphalt drive closer to the southern property boundary at the Cypress Creek Pump Station; and (3) Construction of a new public parking area near Gate Four for access to Cypress Creek Wellfield.

### Project Location

Pasco County



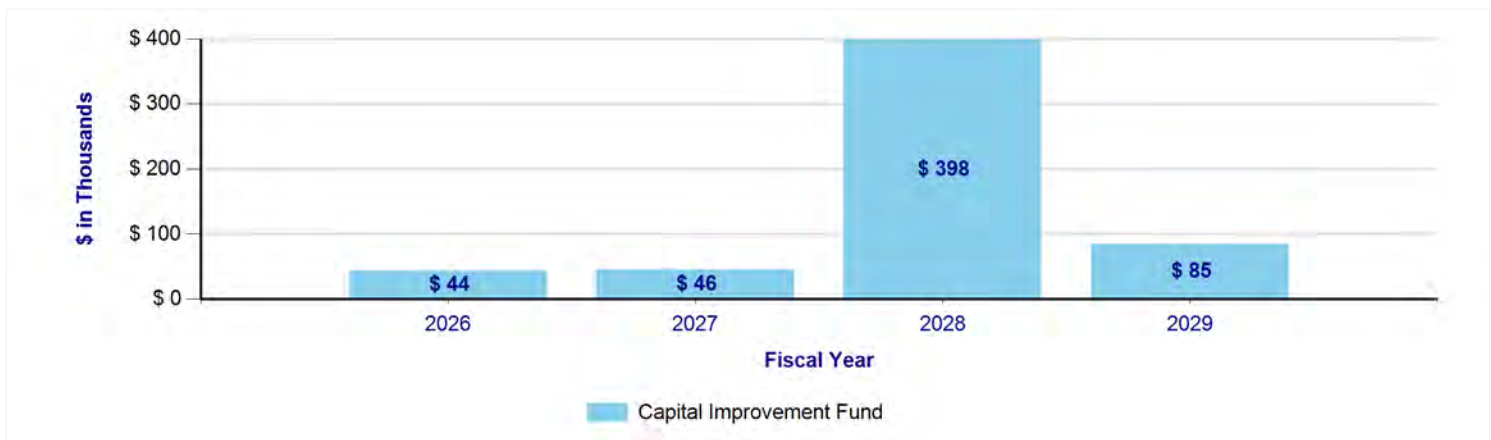
### Project Schedule

Project Phase	Start Date	End Date
Design	6/16/2026	1/12/2027
Professional Services Selection	4/15/2026	6/16/2026
Bidding	1/13/2027	10/19/2027
Construction	10/20/2027	12/12/2028
Close-Out	12/13/2028	2/20/2029

### Project Budget by Project Phase

Project Phase	Amount
Construction	\$482,950
Design	\$86,200
Bidding	\$3,400

### Expenditure Plan by Fiscal Year and Funding Source





## 07061: South Pasco Wellfield Underground Commercial Powerline

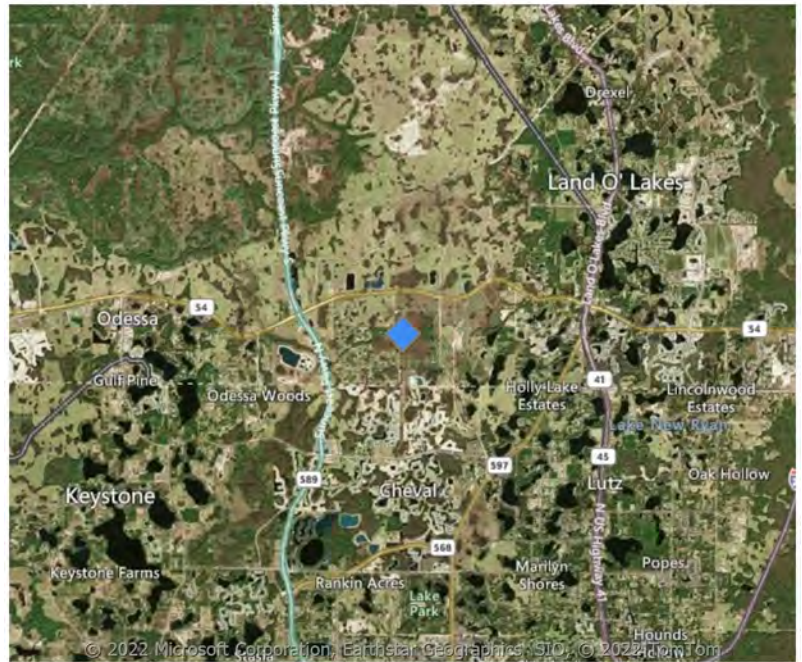
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

The project is located at the South Pasco Wellfield and includes the replacement of the existing overhead commercial power lines with looped underground power lines that will feed the eight wells.

### Project Location

Hillsborough County



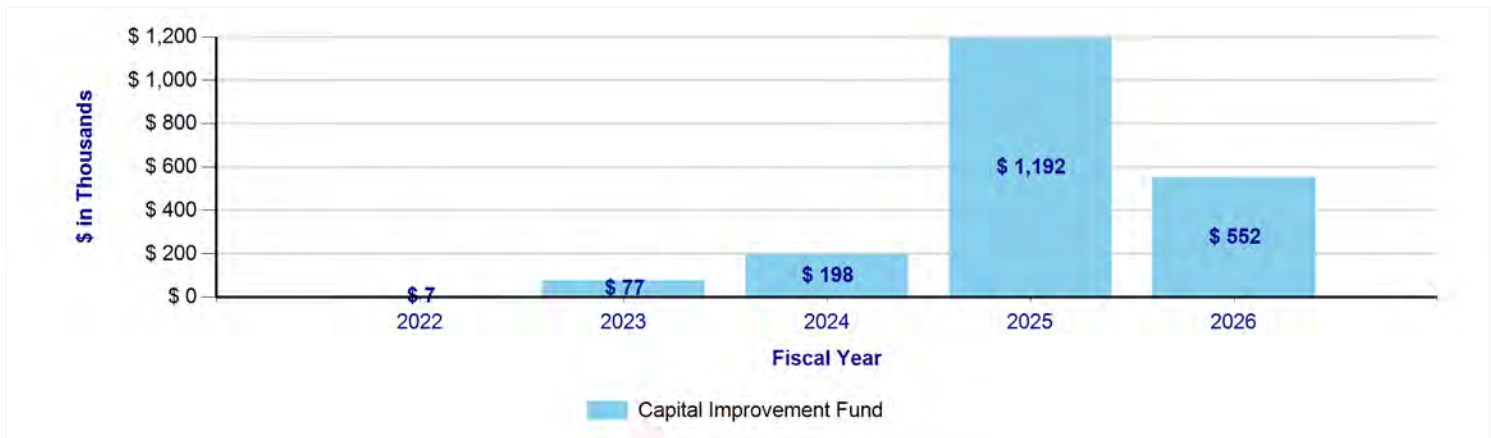
### Project Schedule

Project Phase	Start Date	End Date
Planning	9/5/2022	5/12/2023
Professional Services Selection	5/15/2023	8/30/2023
Design	8/30/2023	4/25/2024
Bidding	4/25/2024	9/10/2024
Construction	9/10/2024	3/18/2026

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$52,000
Design	\$112,000
Bidding	\$17,000
Construction	\$1,788,000
Construction Owner's Allowance	\$57,000

### Expenditure Plan by Fiscal Year and Funding Source





## 07062: Cypress Creek and HSPS Fiber Optic tie-in

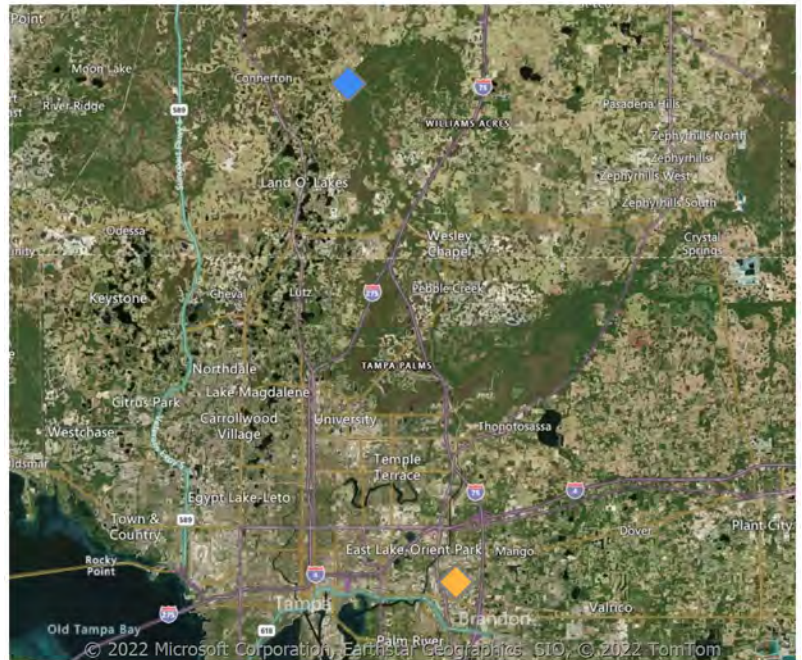
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project will create a new, secure fiber optic connection between Cypress Creek and the High Service Pump Station, replacing sole reliance on commercial communication carriers. The line will be agency-owned and as the primary communications line and will provide increased communications reliability.

### Project Location

Multiple



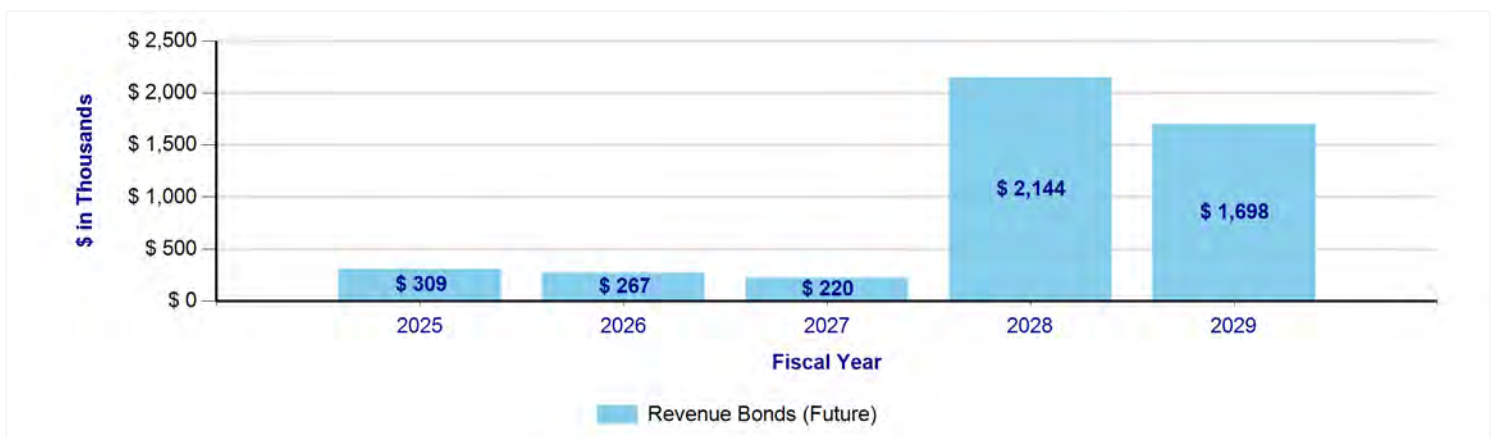
### Project Schedule

Project Phase	Start Date	End Date
Planning	1/5/2025	7/5/2025
Professional Services Selection	7/6/2025	12/28/2025
Design	12/29/2025	5/5/2027
Bidding	5/6/2027	12/24/2027
Construction	12/25/2027	3/31/2029
Close-Out	4/1/2029	8/9/2029

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$309,000
Design	\$478,000
Bidding	\$14,000
Construction	\$3,529,000
Close-Out	\$308,000

### Expenditure Plan by Fiscal Year and Funding Source



## 07064: Ground Storage Tanks Fall Protection

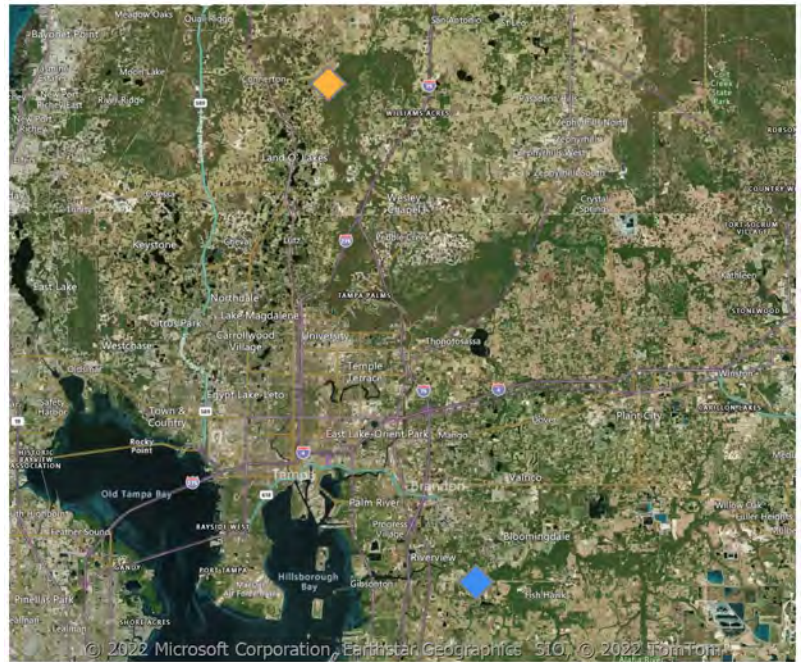
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at both the South Central Hillsborough Intertie Booster Pump Station and the Cypress Creek Water Treatment Plant. The project entails adding roof access safety measures (i.e. ladder cages) and fall protection equipment including rails and tie-off anchors at two groundwater storage tanks at the above-referenced facilities.

### Project Location

Multiple



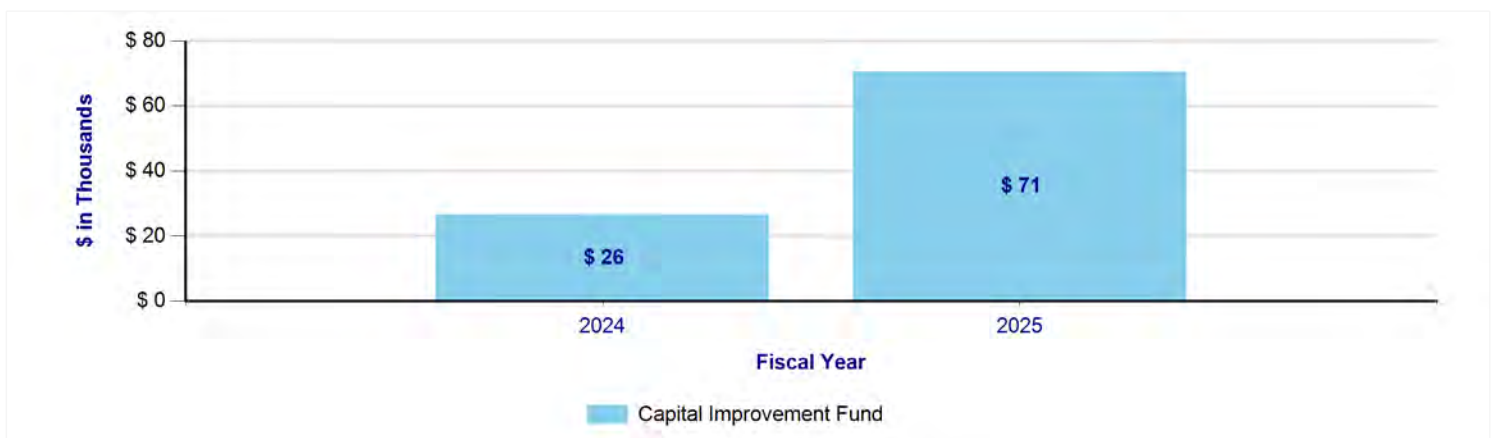
### Project Schedule

Project Phase	Start Date	End Date
Planning	6/1/2023	7/12/2023
Professional Services Selection	7/13/2023	10/16/2023
Design	10/17/2023	3/26/2024
Bidding	3/4/2024	8/19/2024
Construction	8/20/2024	6/25/2025
Close-Out	6/26/2025	8/18/2025

### Project Budget by Project Phase

Project Phase	Amount
Design	\$15,589
Bidding	\$2,411
Construction	\$63,000
Close-Out	\$16,000

### Expenditure Plan by Fiscal Year and Funding Source





## 07065: Maytum Vault Confinement Space Removal

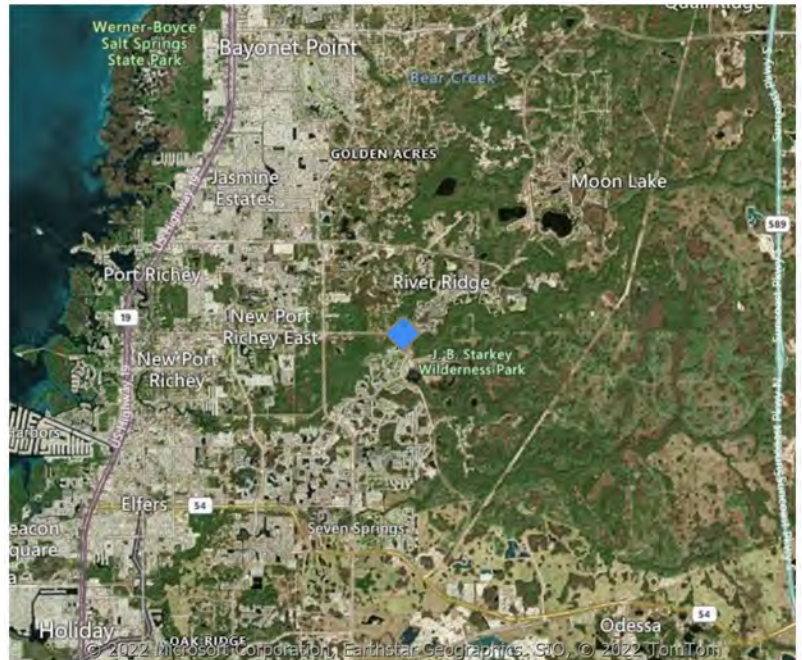
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Maytum Water Treatment Plant. The project includes modifications to an underground venturi meter vault (approx. 8' x 20') at the facility. The venturi meter will remain in place, but all electrical and instrumentation will be relocated to an above-grade control box adjacent to the vault. From the new control box, the electrical and controls system will be reconnected with the New Port Richey WTP terminal box. The top of the vault will be removed, backfilled and compacted around the flow meters to eliminate the confined space.

### Project Location

Pasco County



### Project Schedule

Project Phase	Start Date	End Date
Planning	1/3/2025	2/27/2025
Professional Services Selection	2/27/2025	2/27/2025
Design	2/28/2025	6/19/2025
Bidding	6/20/2025	8/21/2025
Construction	8/22/2025	10/2/2025
Close-Out	10/3/2025	12/18/2025

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$8,161
Design	\$12,242
Bidding	\$2,448
Construction	\$93,852
Close-Out	\$27,000

### Expenditure Plan by Fiscal Year and Funding Source



## 07070: TBC MLK Pumps Refurbishment

<b>Project Manager</b>	
<b>Construction Manager</b>	Richard Menzies
<b>Status</b>	Not Yet Started

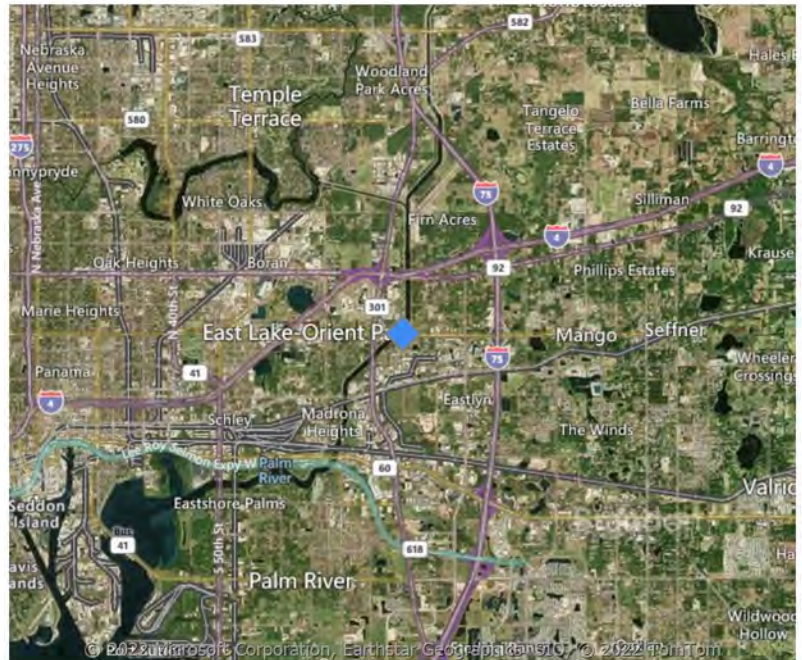
### Project Description

This project is located at the Tampa Bypass Canal Martin Luther King Pump Station and entails removing, inspecting and reconditioning of both the pump and motor of eight 800 HP Fairbanks vertical turbine raw water pumps.

Project description note -- Updated cost in Feb 2021 did not including coating the pumps.

### Project Location

Hillsborough County



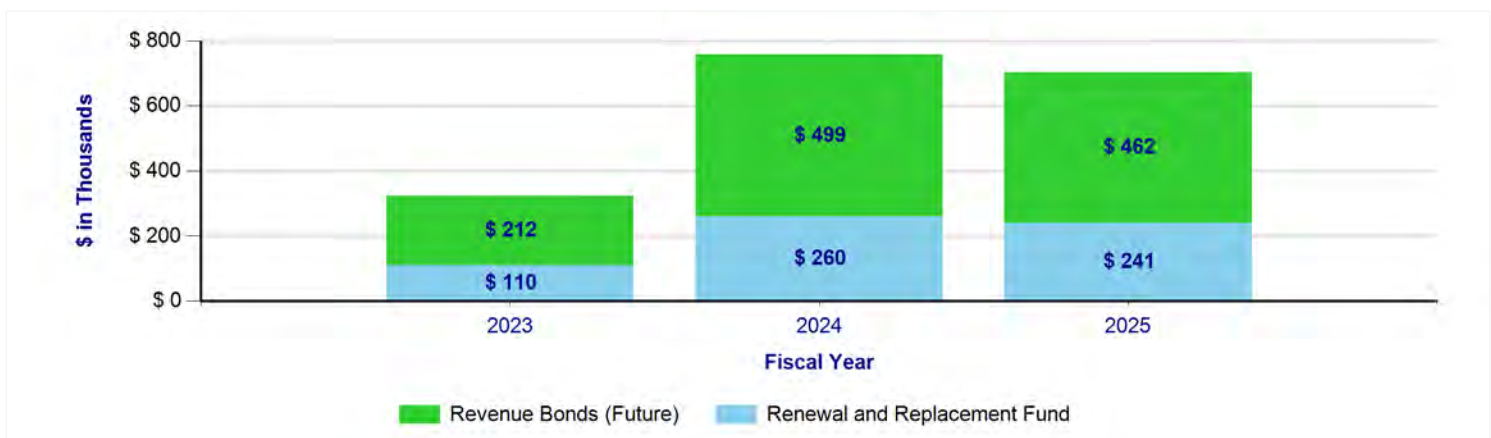
### Project Schedule

Project Phase	Start Date	End Date
Planning	10/3/2022	11/11/2022
Professional Services Selection	11/14/2022	11/14/2022
Design	11/15/2022	1/16/2023
Bidding	12/28/2022	4/27/2023
Construction	4/28/2023	9/2/2025
Close-Out	9/3/2025	12/15/2025

### Project Budget by Project Phase

Project Phase	Amount
Construction	\$1,784,000

### Expenditure Plan by Fiscal Year and Funding Source





## 07100: Future-Information Technology-Placeholder

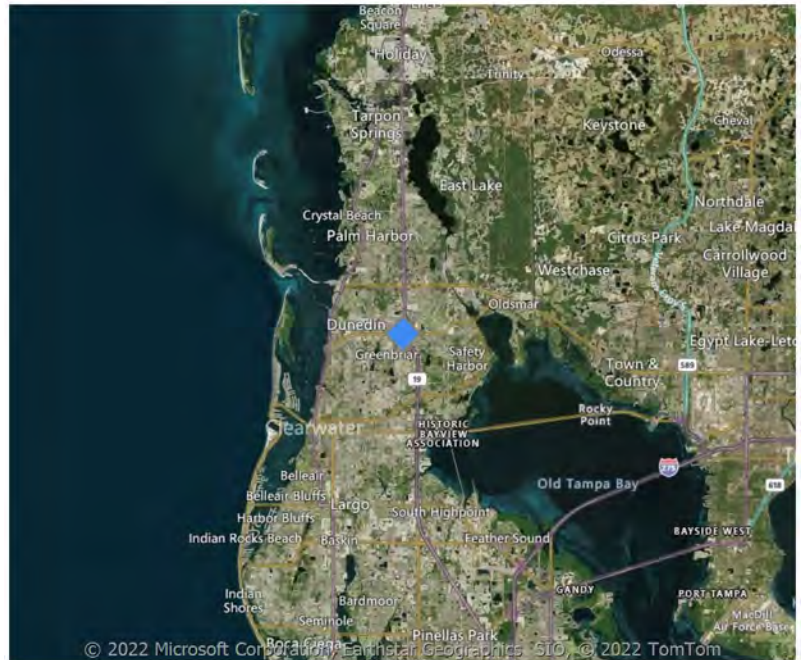
<b>Project Manager</b>	Maribel Medina
<b>Construction Manager</b>	Maribel Medina
<b>Status</b>	Not Yet Started

### Project Description

This is placeholder for future not yet determined Information Technology Projects. As projects are further defined these will be added as separate projects and the corresponding costs deducted from this placeholder project.

### Project Location

Multiple



### Project Schedule

Project Phase	Start Date	End Date
Planning	10/1/2021	9/30/2032

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$13,550,000

### Expenditure Plan by Fiscal Year and Funding Source



## 07540: South Hillsborough Wellfield-Phase 1

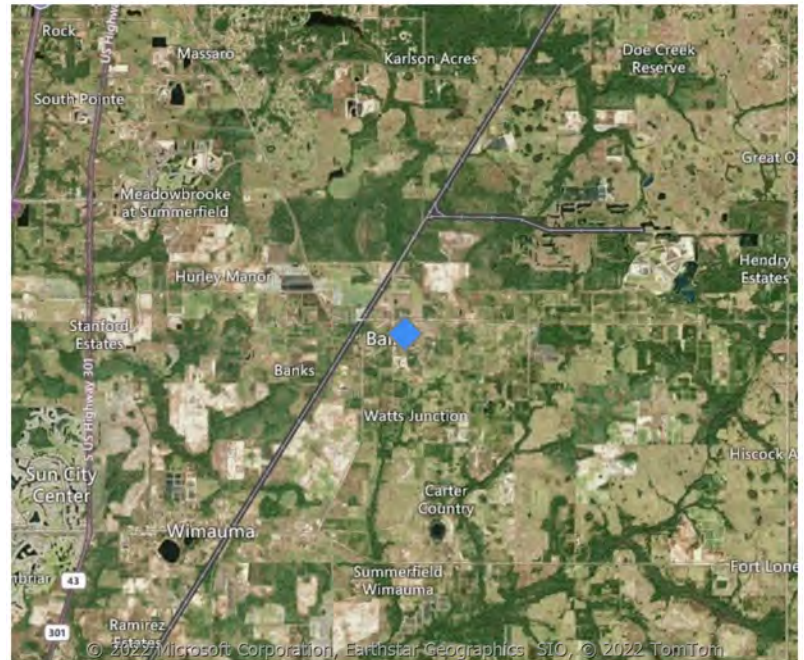
<b>Project Manager</b>	Maribel Medina
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

The South Hillsborough Wellfield Phase 1 includes the design, permitting and construction of two to three water production wells, monitoring wells, well houses, temporary water treatment facilities, collection main, and the acquisition of temporary and permanent easements. Phase 1 of the wellfield will have a 2.35 to 3.35 mgd annual average production capacity and a maximum day capacity of 4.0 mgd. Phase 1 is the first phase of the South Hillsborough Wellfield which is a long-term water supply concept recommended in the 2018 Long-term Master Water Plan, a future phase of the project includes expansion of the wellfield to add additional wells and design and construction of a hydrogen sulfide removal facility by ozonation. The wellfield will be possible by obtaining and acquiring exiting agricultural water use permitted quantities and by allocating groundwater credits obtained by the injection of up 5.0 mgd of Hillsborough County's reclaimed water in the County's South Hillsborough Aquifer Recharge Program (SHARP.)

### Project Location

Hillsborough County



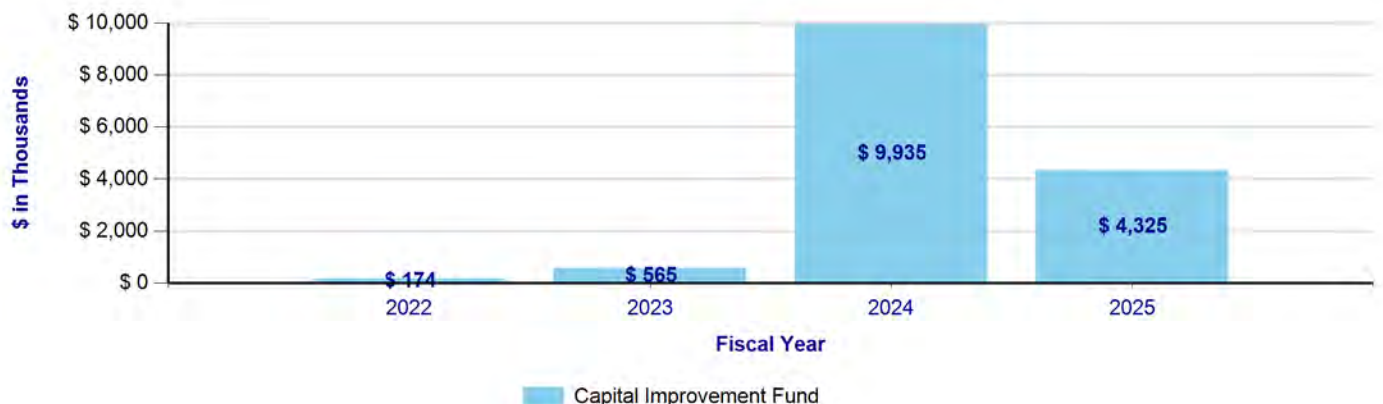
### Project Schedule

Project Phase	Start Date	End Date
Planning	6/20/2022	10/17/2022
Professional Services Selection	10/18/2022	2/20/2023
Design	2/21/2023	8/4/2023
Bidding	8/7/2023	11/20/2023
Construction or Execution	11/21/2023	2/14/2025
Close-Out	2/17/2025	4/21/2025

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$200,000
Design	\$500,000
Bidding	\$75,000
Construction or Execution	\$14,225,000

### Expenditure Plan by Fiscal Year and Funding Source



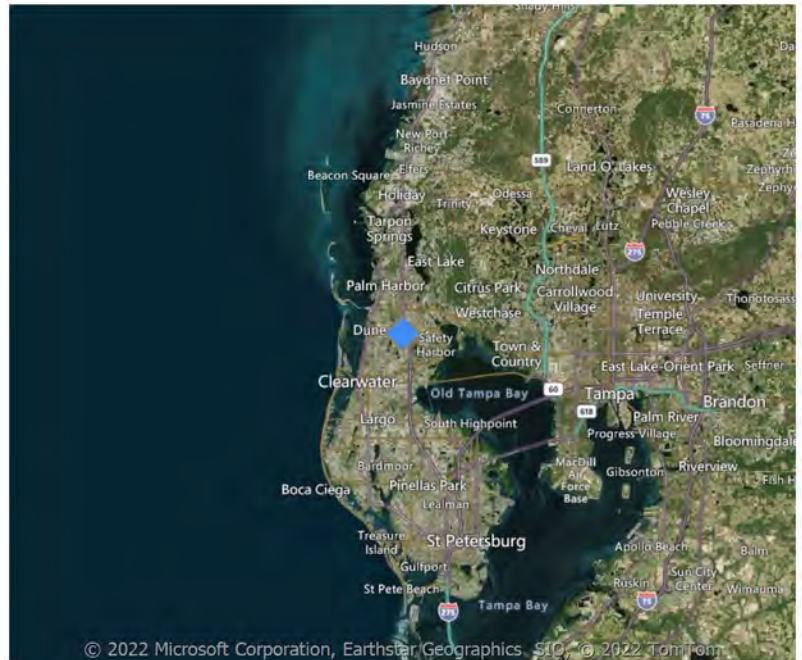
<b>Project Manager</b>	Abdel Hussein
<b>Construction Manager</b>	Abdel Hussein
<b>Status</b>	Not Yet Started

### Project Description

This project will add software features from the existing SCADA vendor to enhance security including Project Development System (PDS), DNP3 protocol, and Archiver Reporting Tool (ARA)

### Project Location

Multiple



### Project Schedule

Project Phase	Start Date	End Date
Planning	4/12/2021	6/7/2021
Professional Services Selection	6/3/2021	6/3/2021
Design	6/8/2021	9/20/2021
Bidding	9/21/2021	12/20/2021
Construction	12/20/2021	5/2/2022
Close-Out	5/2/2022	6/3/2022

### Project Budget by Project Phase

Project Phase	Amount
Bidding	\$109,000

### Expenditure Plan by Fiscal Year and Funding Source





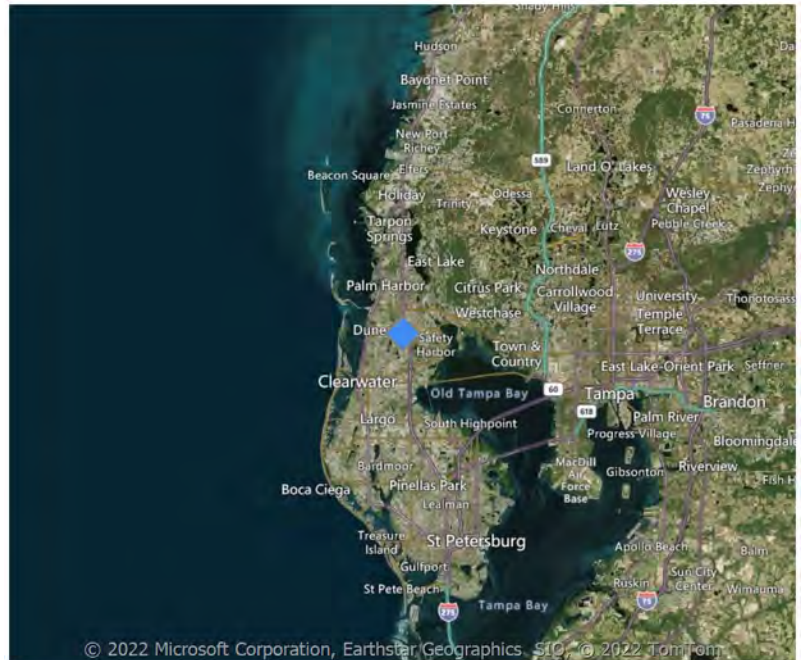
<b>Project Manager</b>	Abdel Hussein
<b>Construction Manager</b>	Abdel Hussein
<b>Status</b>	Not Yet Started

### Project Description

This project adds system monitoring which will provide detection of any incidents or abnormal security events in SCADA.

### Project Location

Multiple



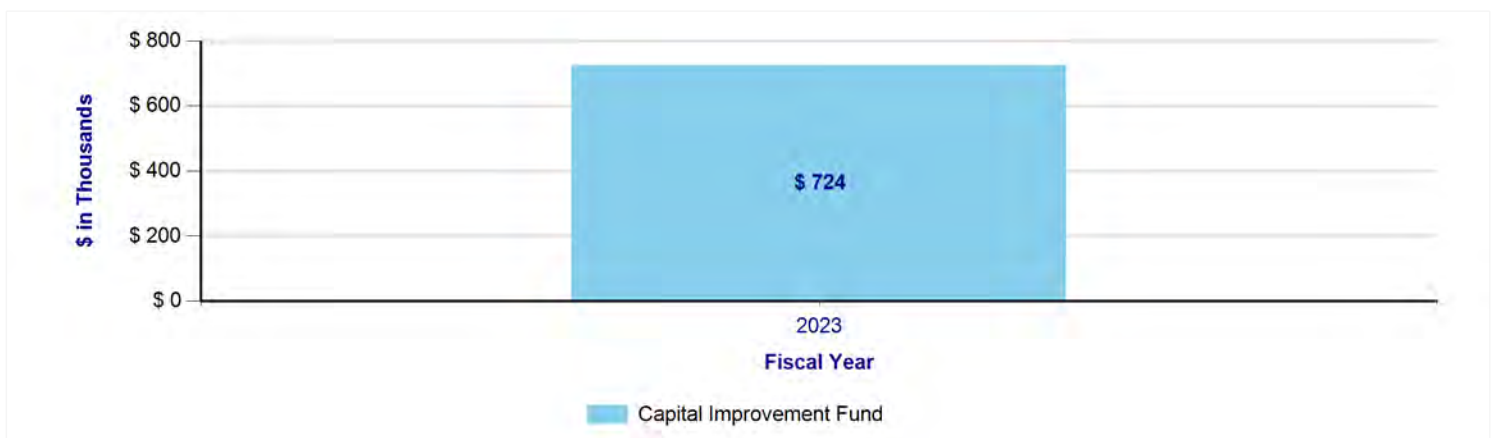
### Project Schedule

Project Phase	Start Date	End Date
Planning	6/6/2022	9/16/2022
Professional Services Selection	9/16/2022	9/16/2022
Design	9/19/2022	2/3/2023
Bidding	2/6/2023	4/17/2023
Construction	4/17/2023	10/23/2023
Close-Out	10/23/2023	11/27/2023

### Project Budget by Project Phase

Project Phase	Amount
Bidding	\$724,000

### Expenditure Plan by Fiscal Year and Funding Source





## 07606: SCADA-Management Cluster and HA-DA Enhancements

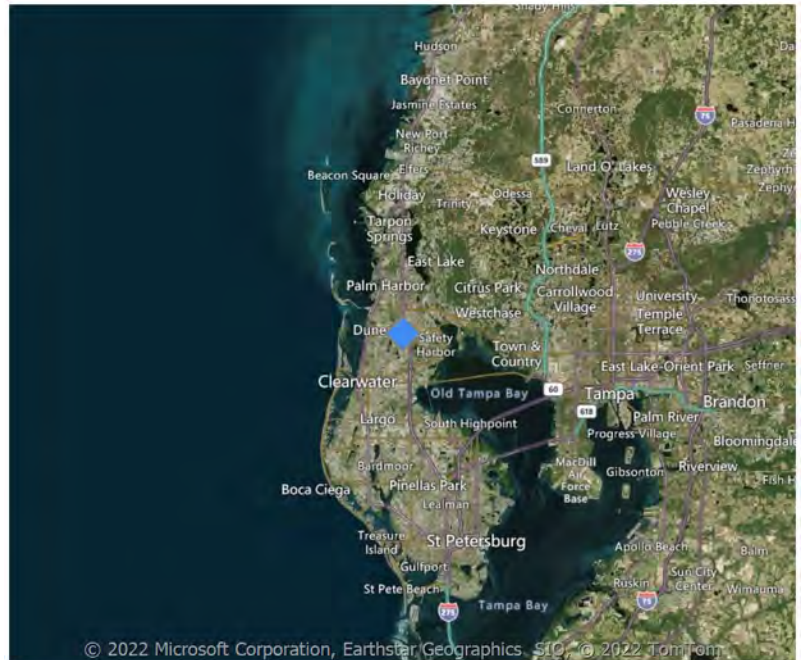
<b>Project Manager</b>	Abdel Hussein
<b>Construction Manager</b>	Abdel Hussein
<b>Status</b>	Not Yet Started

### Project Description

This project will improve SCADA High Availability (HA) and Disaster Recovery (DR) by adding hardware and software solutions. Additionally, it will add a management cluster for SCADA including hardware and software.

### Project Location

Multiple



### Project Schedule

Project Phase	Start Date	End Date
Planning	4/1/2020	7/15/2022
Professional Services Selection	7/18/2022	7/19/2022
Design	7/18/2022	10/21/2022
Bidding	8/29/2022	12/19/2022
Construction	12/19/2022	8/21/2023
Close-Out	8/21/2023	9/25/2023

### Project Budget by Project Phase

Project Phase	Amount
Bidding	\$784,000

### Expenditure Plan by Fiscal Year and Funding Source



## 07608: SCADA-Quality Assurance Enhancements

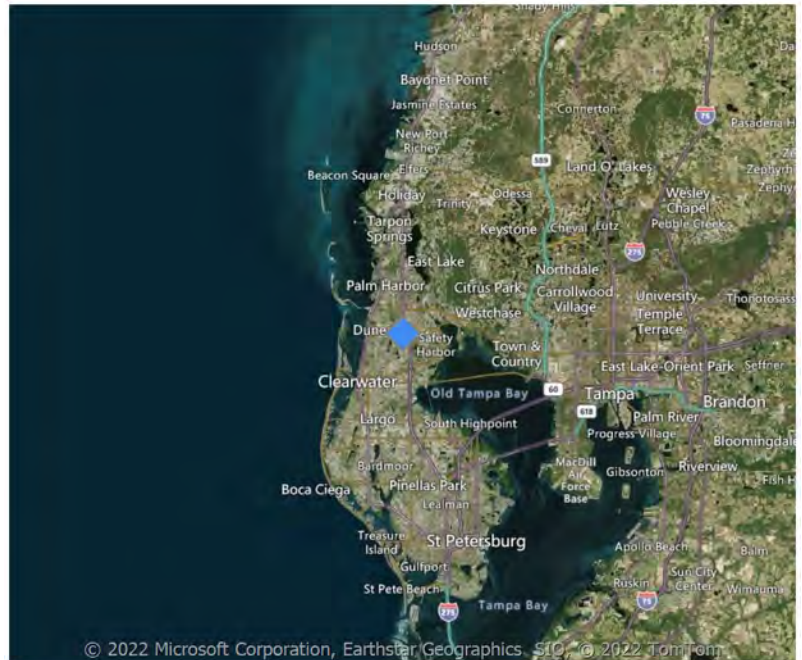
<b>Project Manager</b>	Abdel Hussein
<b>Construction Manager</b>	Abdel Hussein
<b>Status</b>	Not Yet Started

### Project Description

This project will add more capabilities to the SCADA Quality Assurance (QA) system including hardware and software.

### Project Location

Multiple



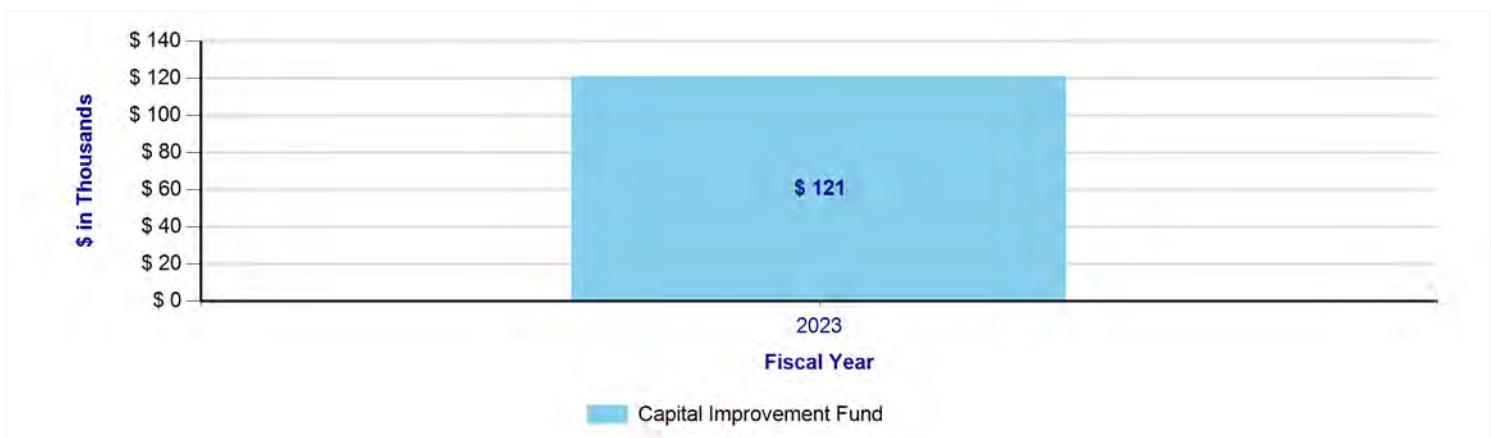
### Project Schedule

Project Phase	Start Date	End Date
Planning	4/4/2022	7/15/2022
Professional Services Selection	7/15/2022	7/15/2022
Design	7/18/2022	12/2/2022
Bidding	12/5/2022	2/20/2023
Construction	2/21/2023	12/18/2023
Close-Out	12/19/2023	1/22/2024

### Project Budget by Project Phase

Project Phase	Amount
Bidding	\$121,000

### Expenditure Plan by Fiscal Year and Funding Source



## 09010: Tampa Bay Desalination Upgrade/Replace PLC/SCADA System

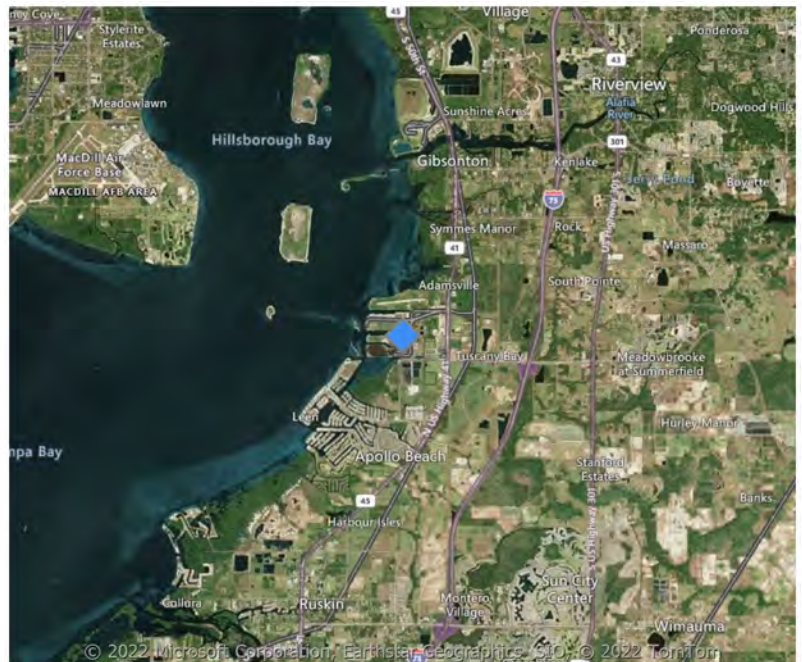
<b>Project Manager</b>	Justin Fox
<b>Construction Manager</b>	Justin Fox
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Tampa Bay Desalination Facility. This project is a placeholder for the upgrades to the facility's Programmable Logic Controllers (PLC) and Supervisory Control and Data Acquisition (SCADA) system functions, capabilities and operational features. A preliminary evaluation was completed at the facility in 2018 and an Agency-wide Master SCADA evaluation is currently being conducted and expected to be completed the Fall of 2019. The Master SCADA Plan will provide additional feedback into the Facility's preliminary evaluation. A scope of work and capital cost estimates will be developed the Master SCADA Plan is complete.

### Project Location

Hillsborough County



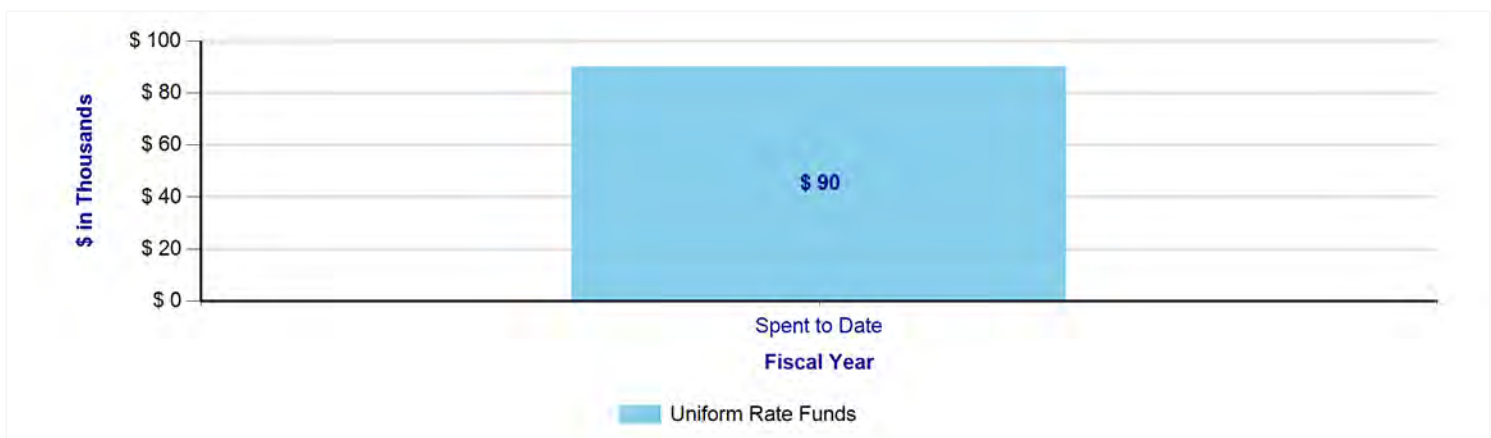
### Project Schedule

Project Phase	Start Date	End Date
Professional Services Selection	10/23/2023	2/19/2024
Planning	9/4/2017	12/17/2018
Design	2/20/2024	10/21/2024
Bidding	10/22/2024	2/17/2025
Construction	2/18/2025	9/22/2025
Close-Out	9/23/2025	12/22/2025

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$90,158

### Expenditure Plan by Fiscal Year and Funding Source





## 09108: Cypress Creek Wellfield Surface Water Improvements-Phase 3

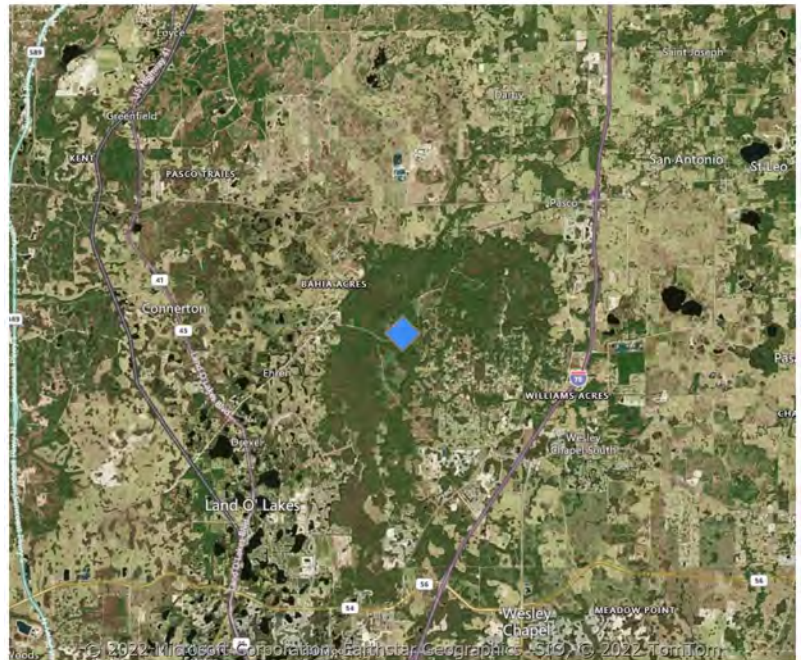
<b>Project Manager</b>	Kira Krall
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

Wetland enhancements were previously constructed within the Cypress Creek Wellfield in 2007 and 2015. The original project aimed to change surface water drainage patterns on the CCWF to rehydrate wetlands which were affected by ground water withdrawal, and to help reduce nuisance flooding in two nearby residential developments. Additional improvements were made in 2015 to further enhance hydrology in several wetlands. Monitoring of wetlands has shown that these enhancements have been successful. In 2020, a feasibility was completed which evaluated and recommended several additional improvements to further enhance target wetlands. This project includes the design, permitting and post design services needed to finalize the design, obtain necessary permits, assist Tampa Bay Water with construction contractor selection, and provide additional assistance throughout the construction process.

### Project Location

Pasco County



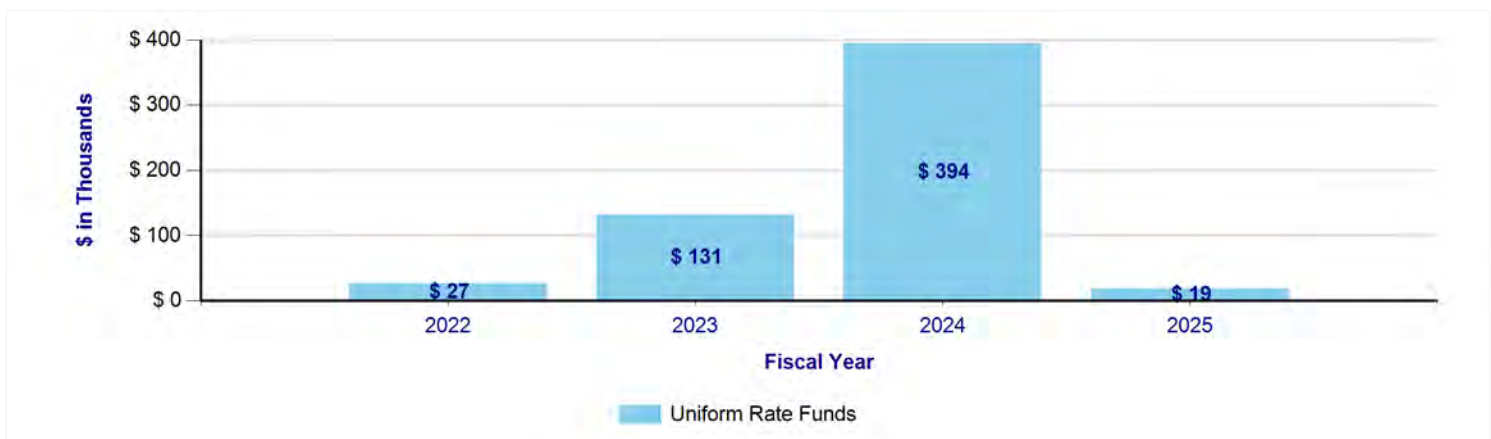
### Project Schedule

Project Phase	Start Date	End Date
Planning	4/4/2022	5/6/2022
Professional Services Selection	5/9/2022	7/29/2022
Design	8/1/2022	7/21/2023
Bidding	7/24/2023	12/25/2023
Construction	12/26/2023	9/13/2024
Close-Out	9/16/2024	11/18/2024

### Project Budget by Project Phase

Project Phase	Amount
Design	\$151,500
Bidding	\$15,000
Construction	\$380,000
Close-Out	\$25,000

### Expenditure Plan by Fiscal Year and Funding Source





## 11005: Integrated Program Manager Consultant Services

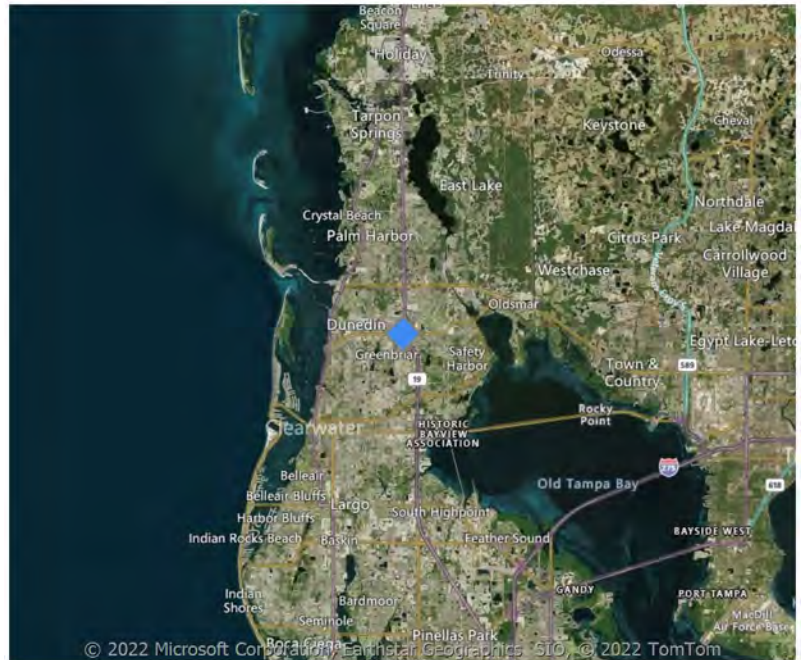
<b>Project Manager</b>	Maribel Medina
<b>Construction Manager</b>	Maribel Medina
<b>Status</b>	Not Yet Started

### Project Description

The Integrated Program Management Consultant has been retained by Tampa Bay Water to assist in the management of the Capital Improvements Program. Services and expenses included under this project are for general services not associated with specific capital projects. Project-specific services and expenses are being tracked under individual capital projects.

### Project Location

None



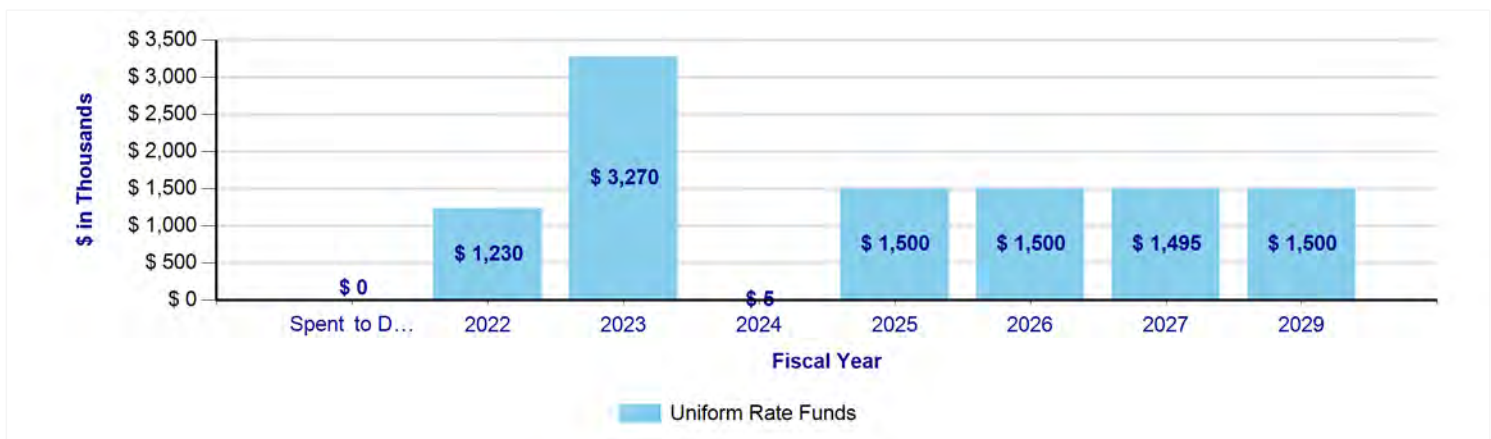
### Project Schedule

Project Phase	Start Date	End Date
Professional Services Selection	5/3/2021	9/20/2021
Planning	9/21/2021	9/30/2021
Construction or Execution	10/1/2021	10/16/2028
Close-Out	10/17/2028	12/17/2029

### Project Budget by Project Phase

Project Phase	Amount
Construction or Execution	\$13,500,000

### Expenditure Plan by Fiscal Year and Funding Source



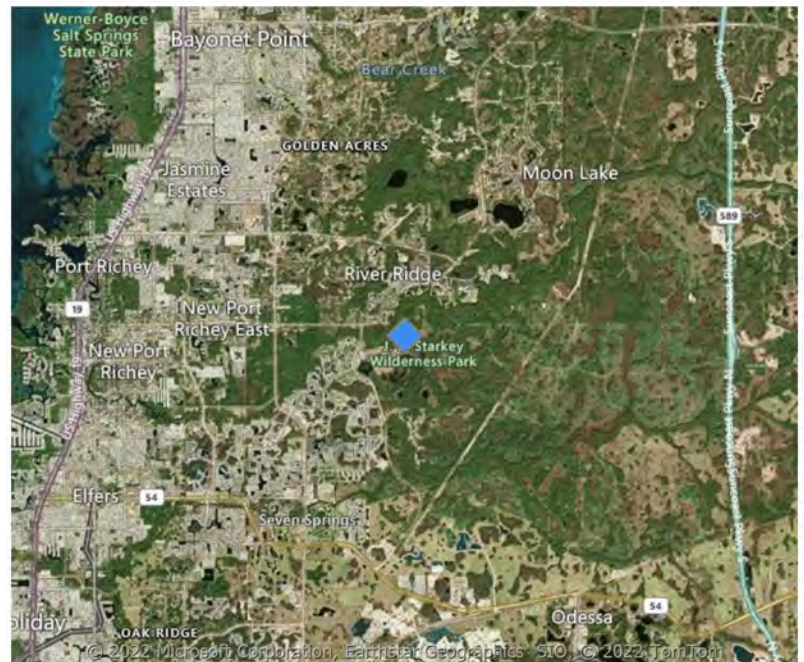
## 11009: Starkey Wellfield Collection Main Assessment

<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

The Condition Assessment includes assessment of piping, within the Wellfield piping network, that may require Renewal & Replacement. The oldest piping is approximately 6,200 feet of 30-inch ductile iron pipe installed in 1972 between the Maytum Plant and wells 1, 2, and 3. The Wellfield was expanded in 1982 which included 20,200 feet of 42-inch diameter PCCP pipe to wells 4, 6, 7, 8, and 9. The Wellfield was expanded again in 1987. The 30-inch line between the Maytum WTP and the piping installed in 1982 was paralleled with 4,200 feet of new 36-inch ductile iron pipe. About 2,600 feet of ductile iron 24-inch collection pipe was installed to wells 13 and 14 connecting to a tee that was left between wells 7 and 9. Another 3,100 feet of 42-inch collection main was installed to the east to wells 10, 11, 12, and 15. The smaller diameter piping to each individual well will not be assessed.

<b>Project Location</b>
Pasco County



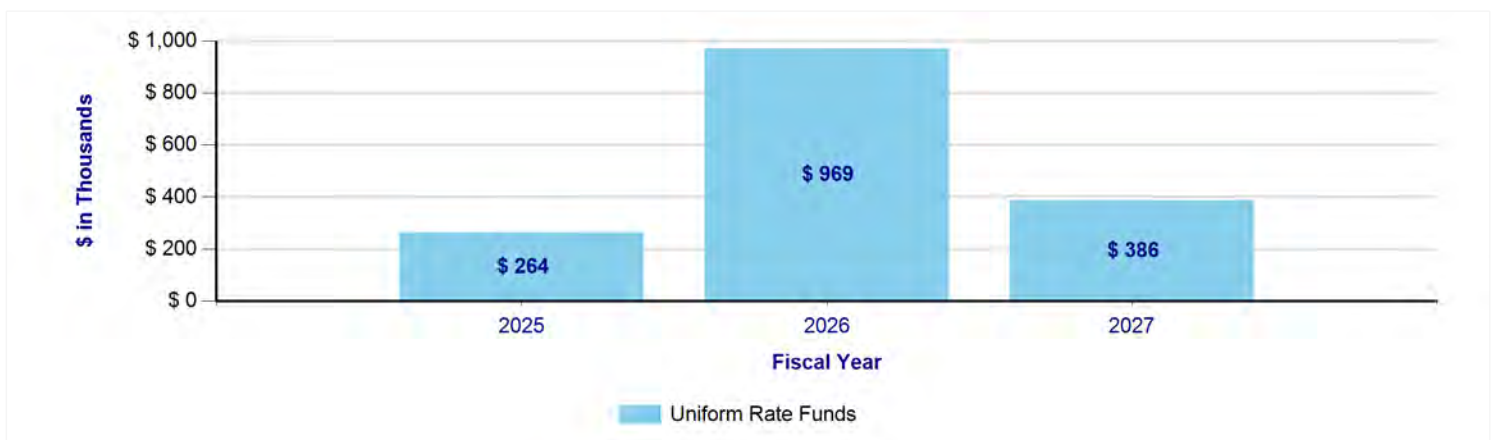
### Project Schedule

Project Phase	Start Date	End Date
Professional Services Selection	2/25/2025	7/15/2025
Planning	7/16/2025	2/23/2027

### Project Budget by Project Phase

Project Phase	Amount
Professional Services Selection	\$60,000
Planning	\$1,559,800

### Expenditure Plan by Fiscal Year and Funding Source





## 11010: Cypress Creek Collection Main Condition Assessment

<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

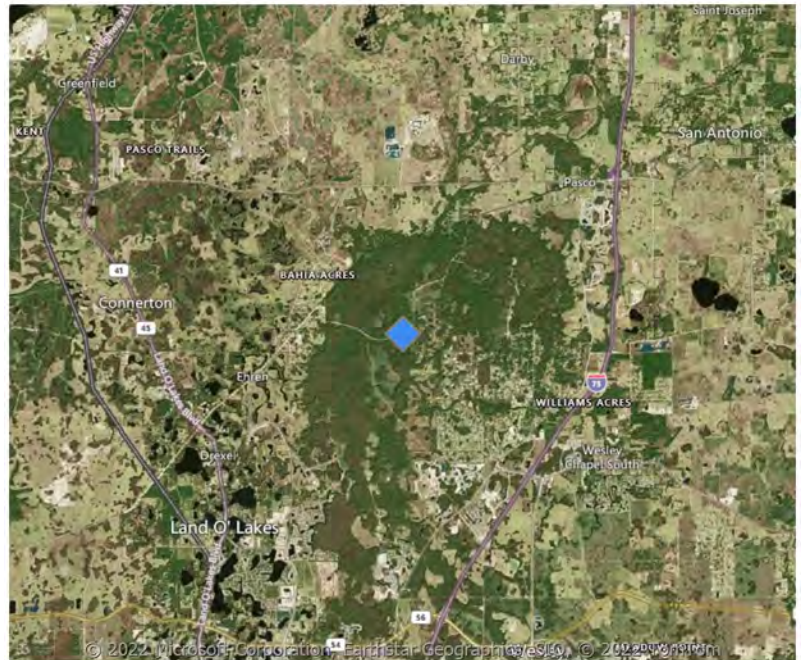
### Project Description

The Condition Assessment includes assessment of the piping sections within the wellfield piping network that may require Renewal & Replacement. The Cypress Creek Wellfield was installed in 1975.

The condition assessment will include an approximately 3,100 feet of 30-inch and 7,200 feet of 24-inch diameter mid-size diameter piping. The smaller diameter piping (16-inch and smaller) to each individual well will not be assessed.

### Project Location

Pasco County



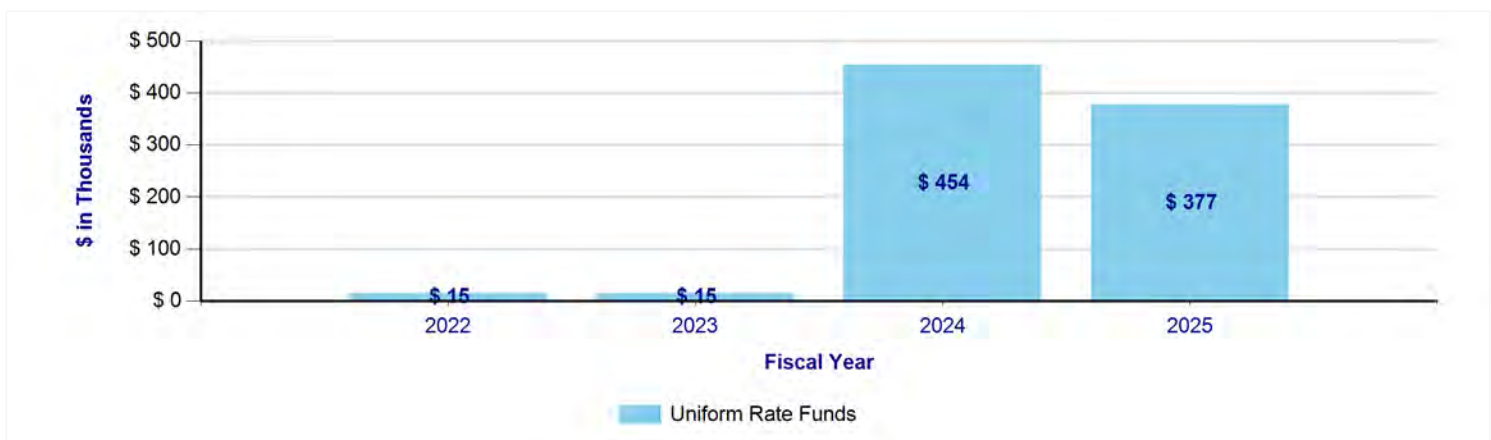
### Project Schedule

Project Phase	Start Date	End Date
Professional Services Selection	10/1/2021	2/18/2024
Planning	2/21/2024	4/6/2025

### Project Budget by Project Phase

Project Phase	Amount
Professional Services Selection	\$36,000
Planning	\$825,200

### Expenditure Plan by Fiscal Year and Funding Source



## 50022: Morris Bridge Booster Station Pumps 1 and 2 Replacement

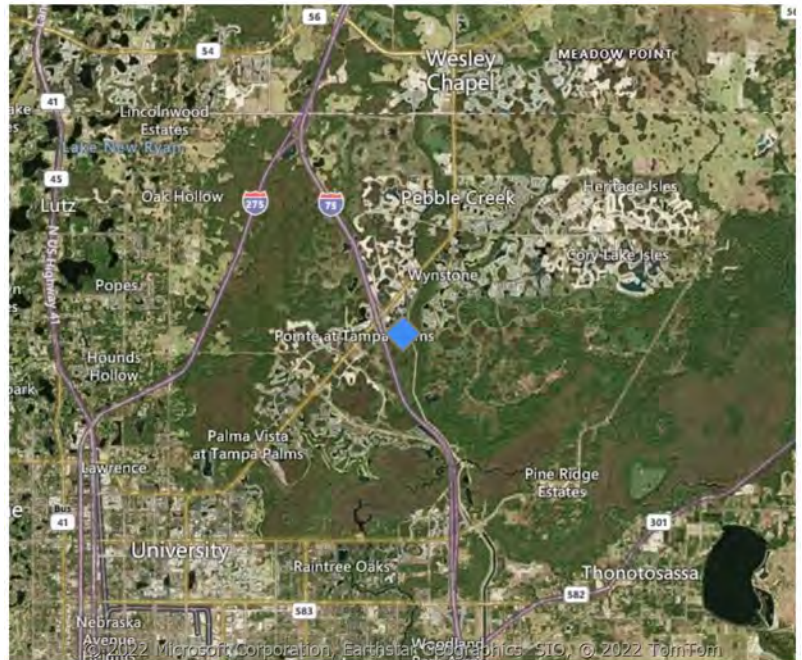
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Morris Bridge Booster Station and includes replacement of pumps and motors 2 and 3 with larger pumps and replacement of the Variable Frequency Drives.

### Project Location

City of Tampa



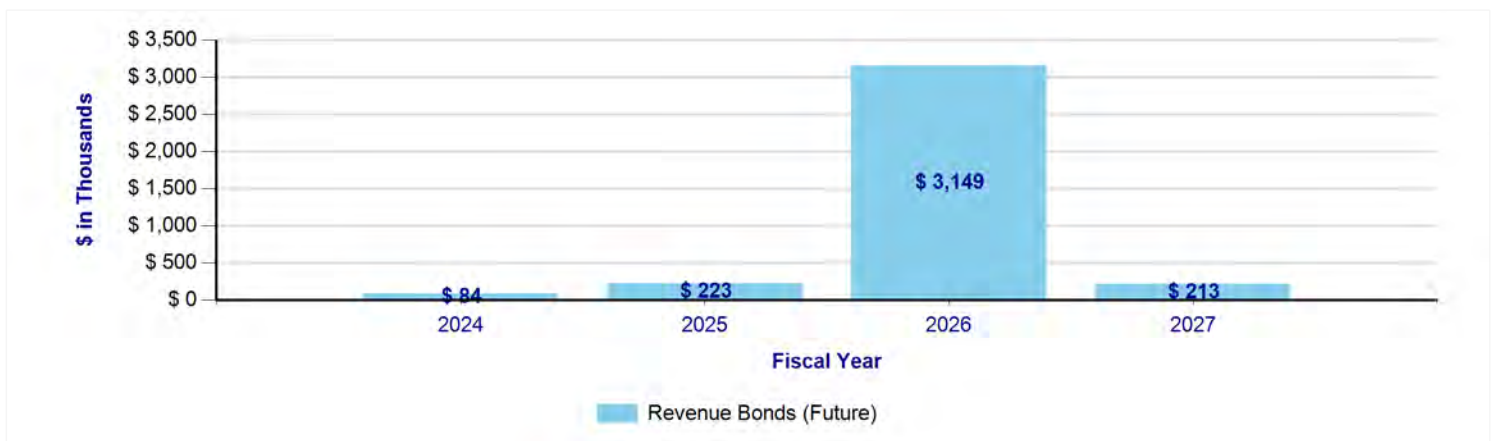
### Project Schedule

Project Phase	Start Date	End Date
Professional Services Selection	4/1/2024	6/18/2024
Design	6/19/2024	6/17/2025
Bidding	6/18/2025	12/16/2025
Construction	12/17/2025	10/20/2026

### Project Budget by Project Phase

Project Phase	Amount
Design	\$295,000
Bidding	\$20,000
Construction	\$1,001,000
Construction Costs	\$2,353,000

### Expenditure Plan by Fiscal Year and Funding Source





## 50023: Starkey Wellfield Improvements

<b>Project Manager</b>	Eliana Lara
<b>Construction Manager</b>	Richard Menzies
<b>Status</b>	Not Yet Started

### Project Description

This project is located in the Starkey Wellfield in Pasco County, FL. The project includes the demolition and replacement of 3 existing well houses, abandonment of 6 production wells, replacement of pumps and motors and modifications to process, electrical and I&C equipment, including Arc Flash upgrades.

### Project Location

Pasco County



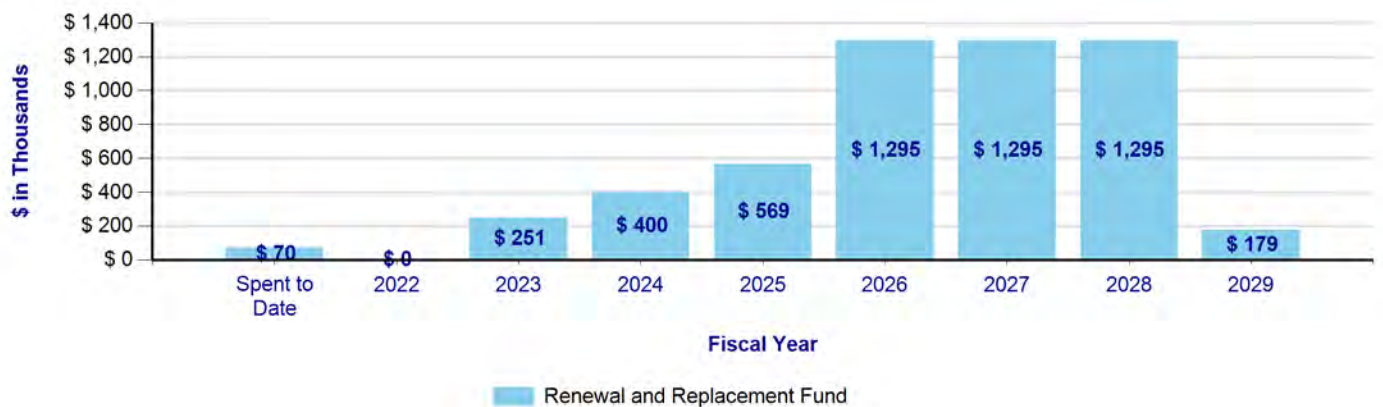
### Project Schedule

Project Phase	Start Date	End Date
Planning	8/1/2014	11/2/2021
Design	2/27/2023	9/6/2024
Bidding	9/9/2024	4/30/2025
Construction	5/1/2025	11/20/2028

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$70,409
Design	\$648,000
Bidding	\$31,000
Construction	\$4,604,689

### Expenditure Plan by Fiscal Year and Funding Source



## 50037: Cypress Creek WTP Stationary Generators

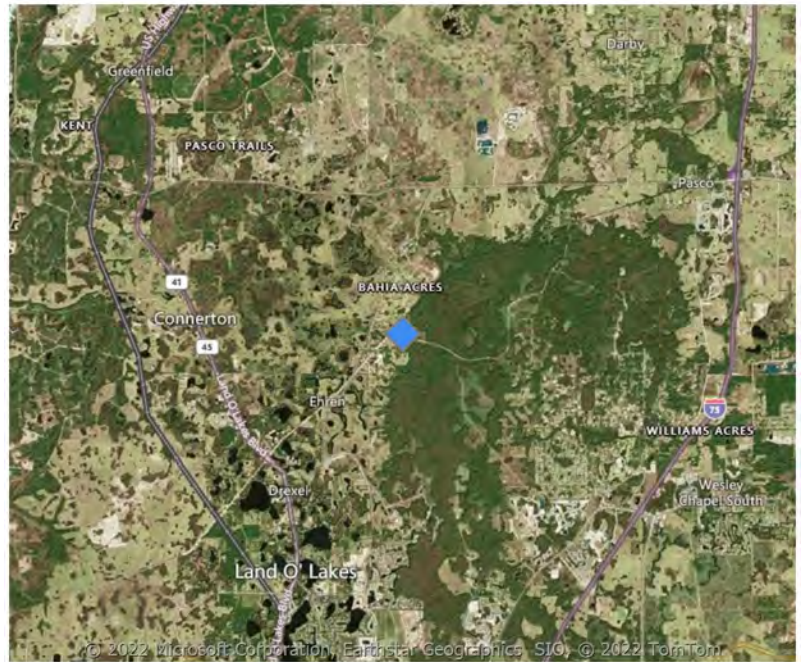
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Cypress Creek Pump Station and includes replacement and/or refurbishment of the Laboratory Building, IEM building, and the Lighting generators.

### Project Location

Pasco County



### Project Schedule

Project Phase	Start Date	End Date
Design	1/2/2023	5/11/2023
Bidding	5/12/2023	10/16/2023
Construction	10/17/2023	8/19/2024

### Project Budget by Project Phase

Project Phase	Amount
Construction	\$442,000

### Expenditure Plan by Fiscal Year and Funding Source





## 50041: Northwest Hillsborough Wellfield Improvements

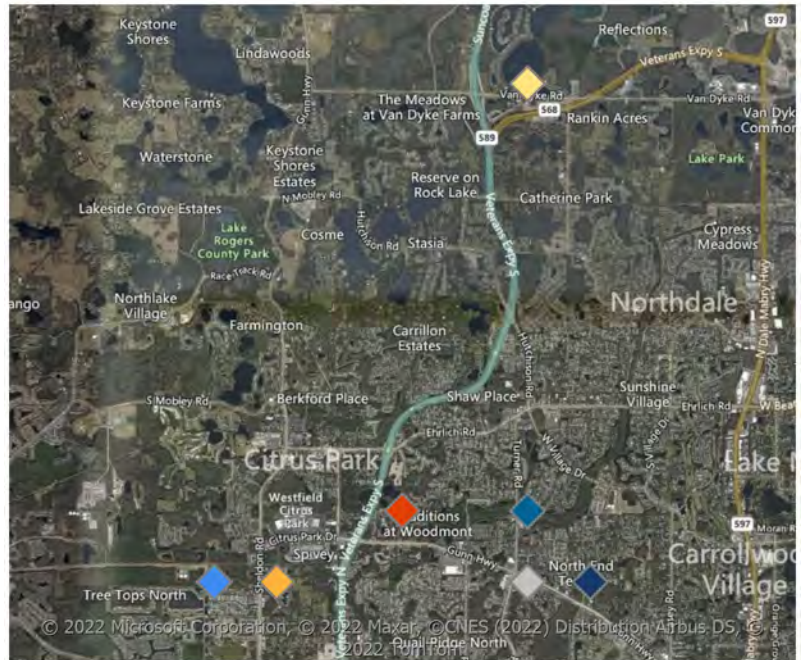
<b>Project Manager</b>	Justin Fox
<b>Construction Manager</b>	Richard Menzies
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Northwest Hillsborough Wellfield (Hillsborough County) and includes replacement of Vertical Turbine Pumps and motors at 7 well sites. Project includes replacement and addition of electrical Overcurrent Protection Devices (OPD) with new equipment that will reduce the Arc Flash Hazard condition at the well sites. The project also includes the replacement of six wellhouses (NWH 01-06). NWH-07 wellhouse may not require replacement, but a retrofit of the space. Existing MCCs, pumps/motors control equipment (mix of ex. soft starters and VFDs) may be replaced based on existing condition, age, and maintenance history.

### Project Location

Hillsborough County



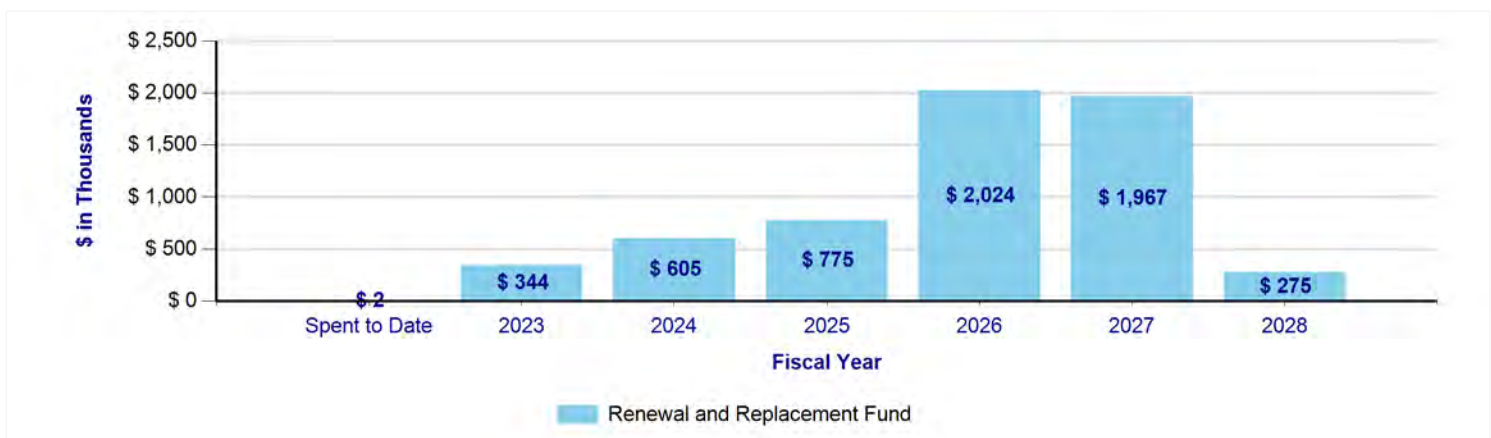
### Project Schedule

Project Phase	Start Date	End Date
Planning	6/6/2022	8/5/2022
Professional Services Selection	8/8/2022	3/6/2023
Design	3/7/2023	10/28/2024
Bidding	10/29/2024	5/28/2025
Construction	5/29/2025	9/1/2027
Close-Out	9/2/2027	12/20/2027

### Project Budget by Project Phase

Project Phase	Amount
Design	\$997,000
Bidding	\$34,000
Construction	\$4,586,000
Close-Out	\$374,000

### Expenditure Plan by Fiscal Year and Funding Source



## 50042: Cosme-Odessa Wellfield Improvements

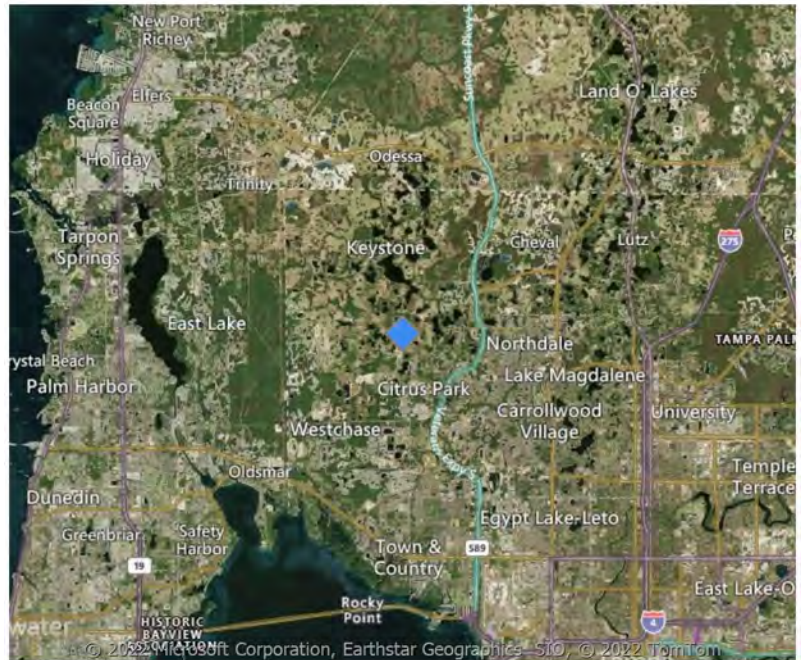
<b>Project Manager</b>	Eliana Lara
<b>Construction Manager</b>	Justin Fox
<b>Status</b>	Not Yet Started

### Project Description

The project is located at the Cosme-Odessa Wellfield and includes: (1) the removal of existing Tampa Bay Water owned overhead power lines and replacement with commercial power lines at wells 1, 3, 5-10, 12, 16, 18, 20, 21, 24, 25, 30, 31, 32, and 34; (2) Installation of new motor starters at Wells 1, 3, 5-10, 12, 16, 18, 20, 21, 24, 25, 30, 31, 32, and 34; and (3) Replacement of the existing fiber optic cable.

### Project Location

Hillsborough County



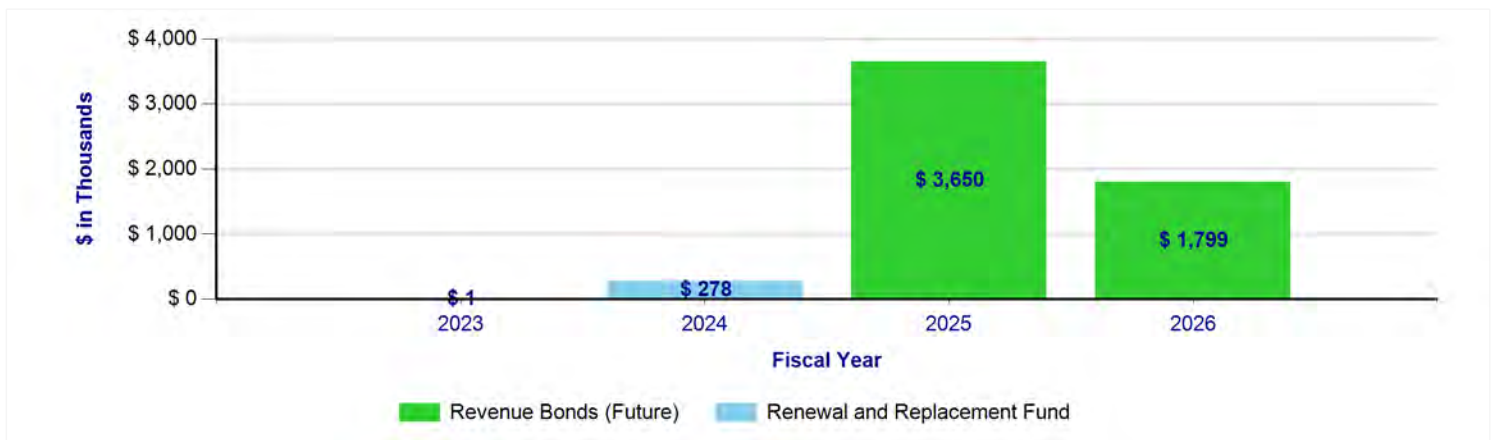
### Project Schedule

Project Phase	Start Date	End Date
Planning	1/3/2023	9/27/2023
Design	9/27/2023	5/29/2024
Bidding	5/30/2024	9/23/2024
Construction	9/10/2024	2/10/2026
Close-Out	2/11/2026	4/27/2026

### Project Budget by Project Phase

Project Phase	Amount
Design	\$69,000
Construction	\$5,213,000
Close-Out	\$446,000

### Expenditure Plan by Fiscal Year and Funding Source





## 50043: Cypress Creek Headwall Erosion Repair

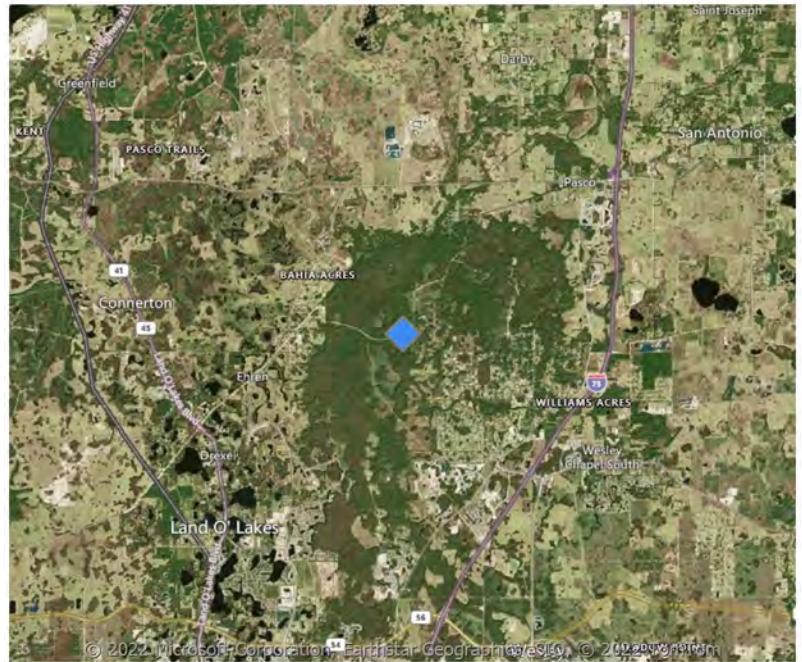
<b>Project Manager</b>	Eliana Lara
<b>Construction Manager</b>	Justin Fox
<b>Status</b>	Not Yet Started

### Project Description

The project is located in the Cypress Creek Wellfield and includes repair of damage caused by erosion to the service road (Pump Station Road) culvert crossing of Cypress Creek.

### Project Location

Pasco County



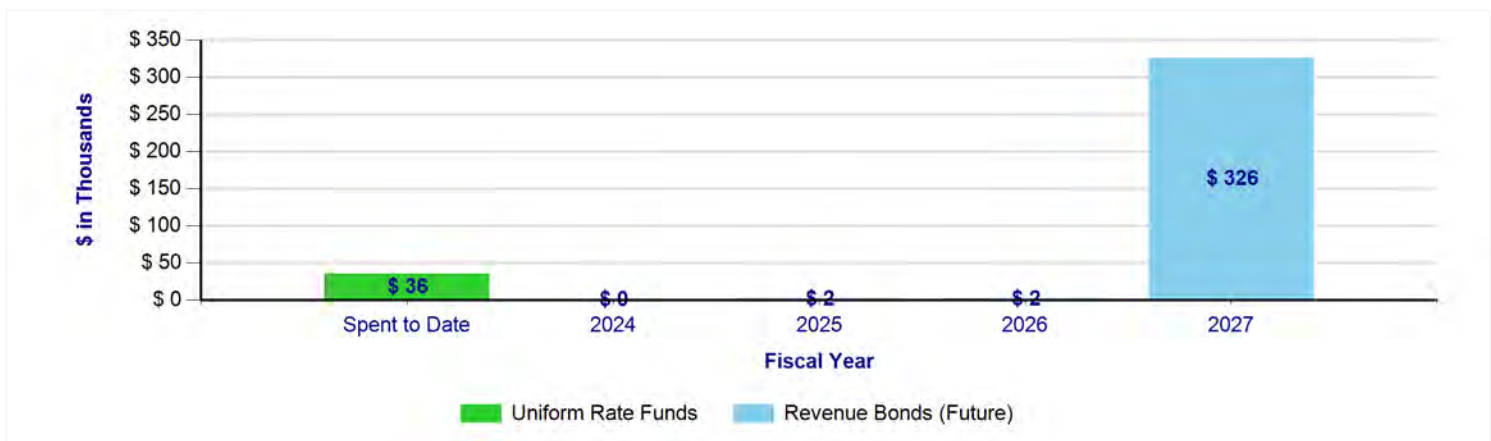
### Project Schedule

Project Phase	Start Date	End Date
Design	11/10/2015	5/31/2017
Bidding	8/1/2024	12/16/2026
Construction	12/17/2026	5/5/2027
Close-Out	5/6/2027	8/18/2027

### Project Budget by Project Phase

Project Phase	Amount
Design	\$35,550
Bidding	\$5,000
Construction	\$325,376

### Expenditure Plan by Fiscal Year and Funding Source



## 50047: Morris Bridge Chemical Piping Replacement

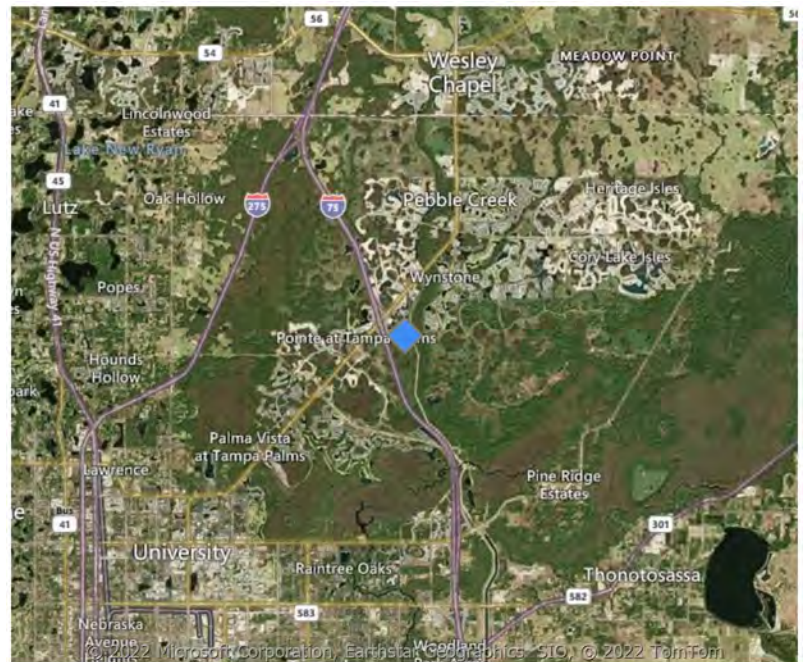
<b>Project Manager</b>	James Smith
<b>Construction Manager</b>	Ryan Morriss
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Morris Bridge Booster Station and involves replacing the chemical feed systems, which includes the above and below ground chemical piping, ammonia chemical pumps, sodium hypochlorite tanks (two), and in-pipe chemical injection points.

### Project Location

Hillsborough County



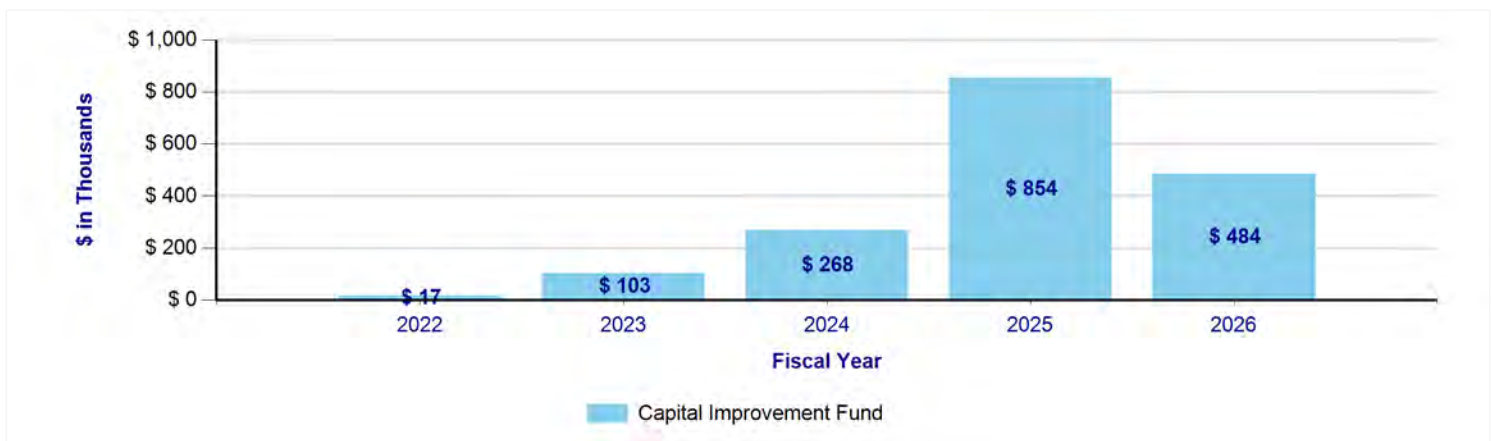
### Project Schedule

Project Phase	Start Date	End Date
Design	8/2/2022	4/10/2024
Bidding	10/25/2023	7/29/2024
Construction	7/29/2024	3/9/2026
Close-Out	3/9/2026	4/20/2026

### Project Budget by Project Phase

Project Phase	Amount
Design	\$176,000
Bidding	\$62,000
Construction	\$1,381,000
Close-Out	\$108,000

### Expenditure Plan by Fiscal Year and Funding Source





## 50048: BUD 5 Chemical Piping Replacement

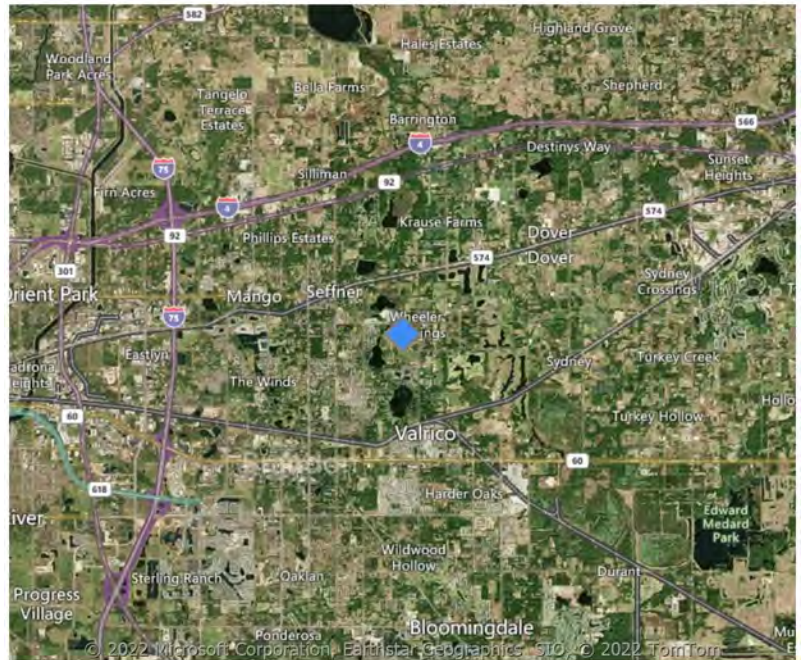
<b>Project Manager</b>	
<b>Construction Manager</b>	Richard Menzies
<b>Status</b>	Not Yet Started

### Project Description

The project involves replacing the chemical feed systems at the BUD 5 Water Treatment Plant.

### Project Location

Hillsborough County



### Project Schedule

Project Phase	Start Date	End Date
Design	10/3/2022	10/25/2023
Bidding	10/18/2023	3/4/2024
Construction	3/4/2024	11/18/2025
Close-Out	11/18/2025	2/16/2026

### Project Budget by Project Phase

Project Phase	Amount
Design	\$146,000
Bidding	\$41,000
Construction	\$902,000
Close-Out	\$101,000

### Expenditure Plan by Fiscal Year and Funding Source



## 50052: High Service Pump Station Ball Valve Replacement

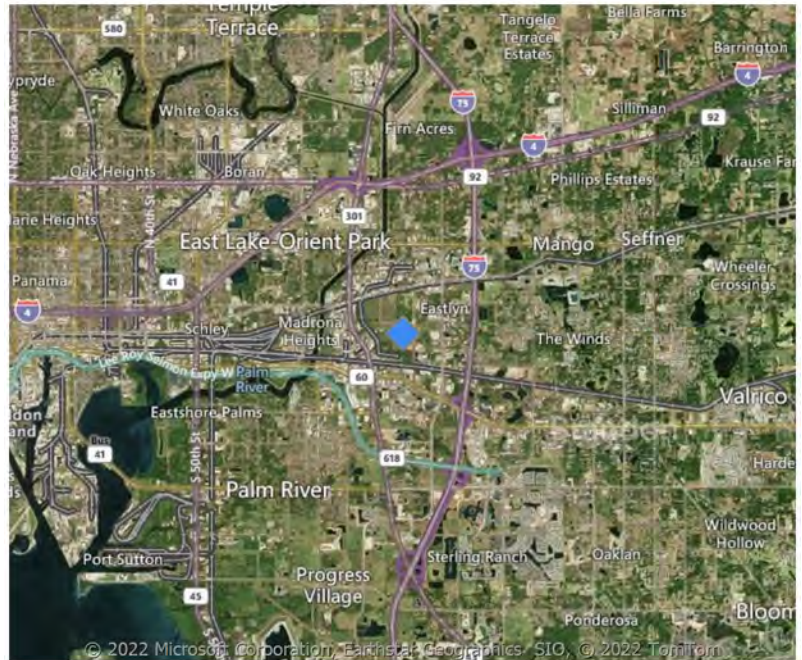
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the High Service Pump Station and includes repair or replacement of ball valves for Pump Nos. 1, 3, 4, and 5 and evaluation of the current condition and configuration of the associated control piping for any irregularities which could impact reliability.

### Project Location

Hillsborough County



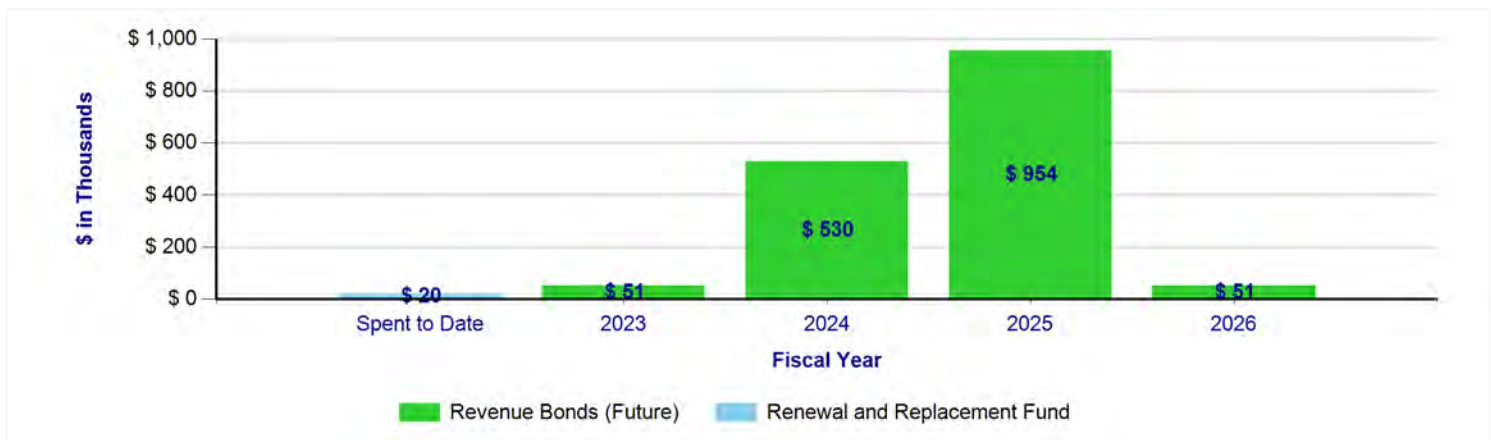
### Project Schedule

Project Phase	Start Date	End Date
Professional Services Selection	6/1/2023	7/27/2023
Planning	8/12/2016	9/29/2017
Design	7/28/2023	1/8/2024
Construction	4/16/2024	10/20/2025
Bidding	1/9/2024	4/15/2024

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$19,980
Design	\$130,920
Construction	\$1,444,020
Bidding	\$11,000

### Expenditure Plan by Fiscal Year and Funding Source





## 50055: Tampa Bay Desalination VFDs Replacement

<b>Project Manager</b>	Justin Fox
<b>Construction Manager</b>	Richard Menzies
<b>Status</b>	Not Yet Started

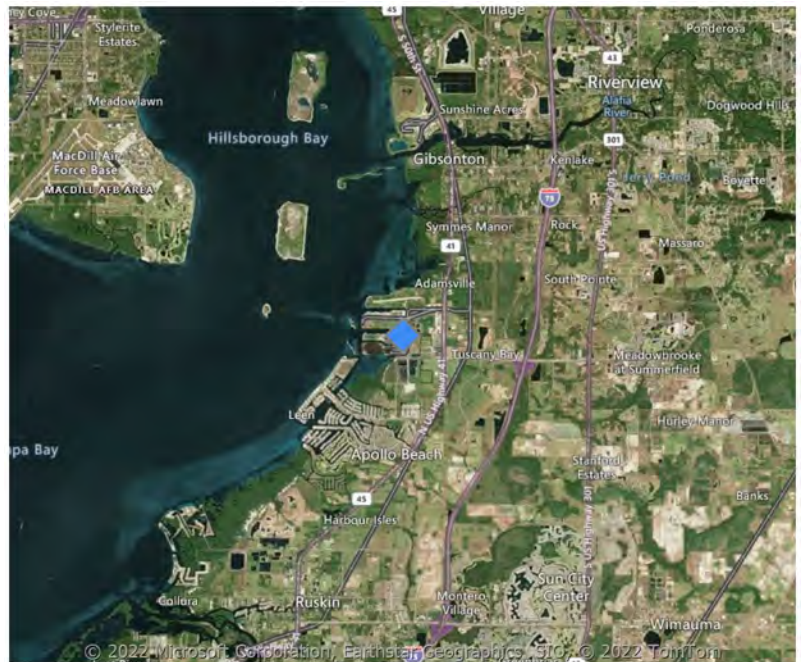
### Project Description

This project is located at the Tampa Bay Desalination Facility and includes the replacement of existing Medium and Low Voltage Variable Frequency Drives (VFD). Twenty total VFDs.

The Planning Phase included the repairs and/or replacement of five VFDs that failed. This phase is complete. The remainder of the VFDs included in this project will be replaced in future years as scheduled.

### Project Location

Hillsborough County



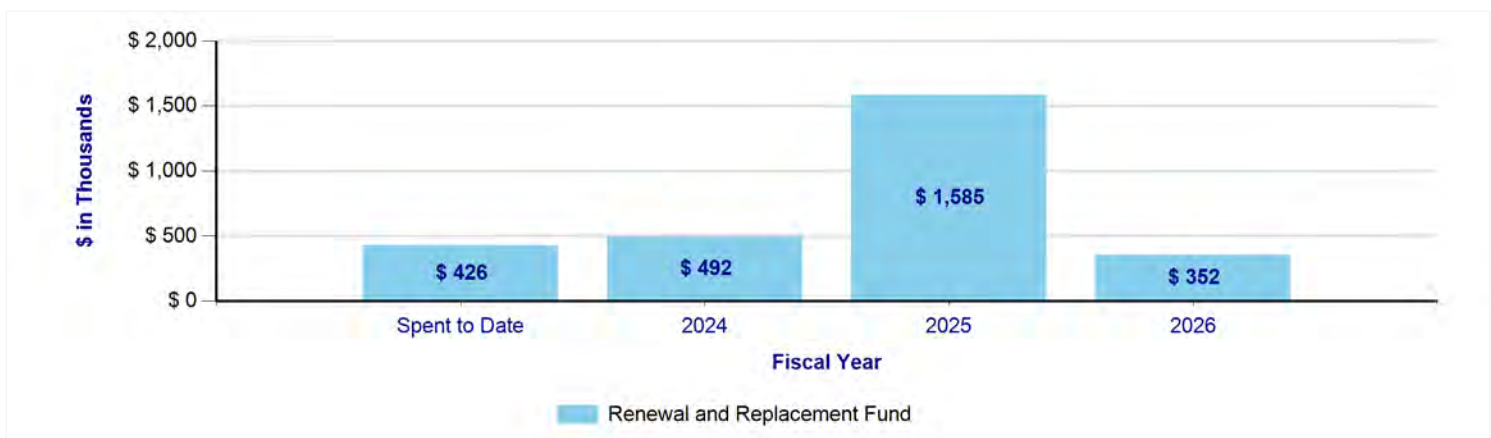
### Project Schedule

Project Phase	Start Date	End Date
Professional Services Selection	4/1/2023	6/19/2023
Design	6/20/2023	2/26/2024
Bidding	2/27/2024	6/7/2024
Construction	6/10/2024	12/19/2025
Close-Out	12/22/2025	4/20/2026
Planning	9/5/2017	4/1/2019

### Project Budget by Project Phase

Project Phase	Amount
Construction	\$2,429,771
Planning	\$426,229

### Expenditure Plan by Fiscal Year and Funding Source



## 50056: South Pasco Transmission Main Pipe Repair

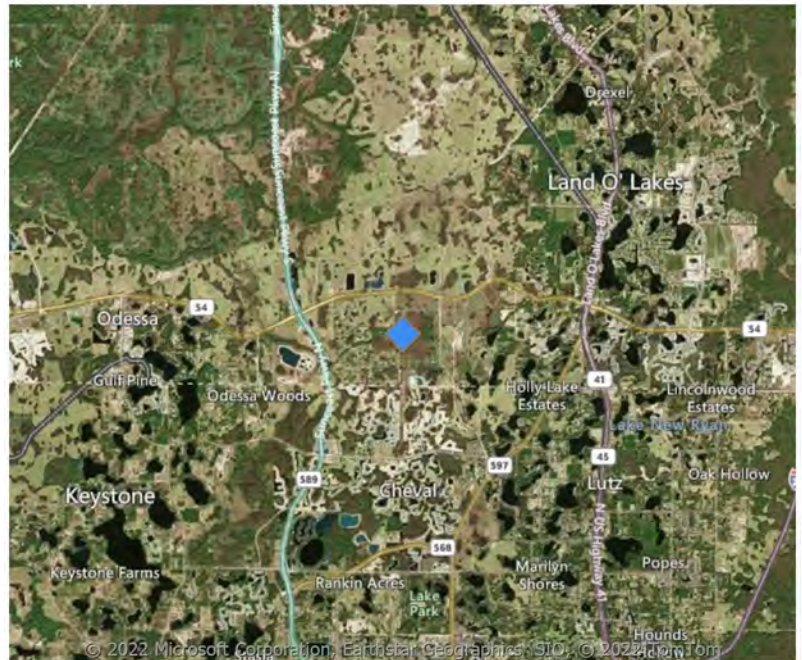
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project includes repairs to rehabilitate portions of the South Pasco Transmission Main (TM) that were identified as damaged or distressed by a condition assessment performed by Pure Technologies U.S. Inc in 2015.

### Project Location

Pasco County



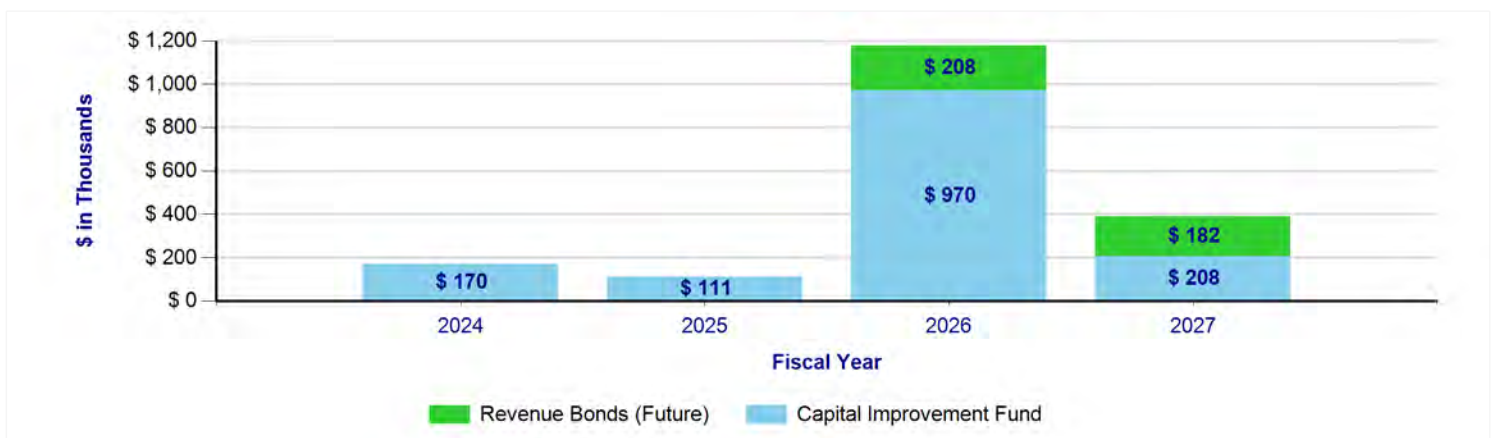
### Project Schedule

Project Phase	Start Date	End Date
Planning	10/2/2023	2/24/2024
Professional Services Selection	2/5/2024	7/1/2024
Design	7/2/2024	8/26/2025
Bidding	8/27/2025	2/16/2026
Construction	2/17/2026	11/17/2026
Close-Out	11/18/2026	2/15/2027

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$140,000
Design	\$139,000
Bidding	\$11,000
Construction	\$1,422,000
Close-Out	\$137,000

### Expenditure Plan by Fiscal Year and Funding Source





## 50057: Tampa Bay Desalination Plant Belt Filter Press Replacement

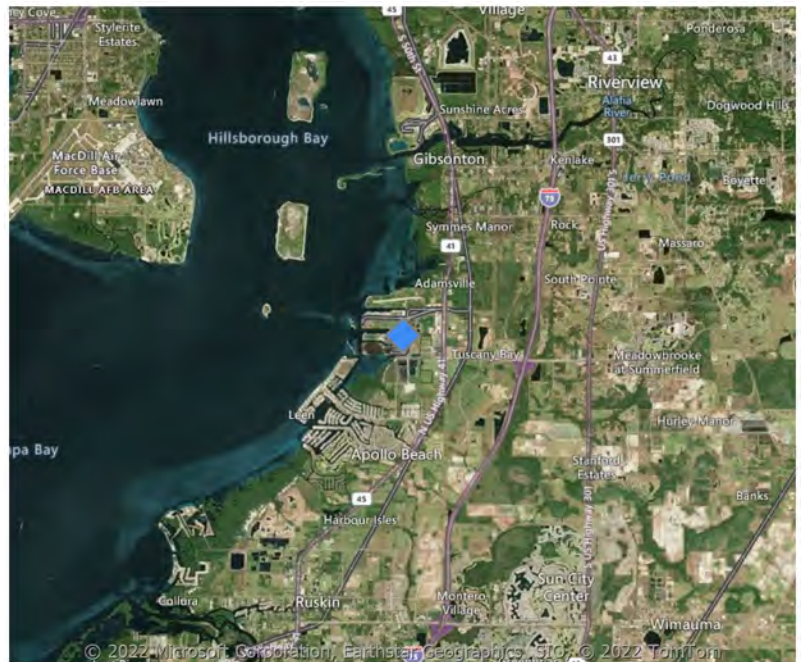
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Tampa Bay Desalination Plant and includes the replacement in kind of the two (2) belt filter press assemblies and appurtenances.

### Project Location

Hillsborough County



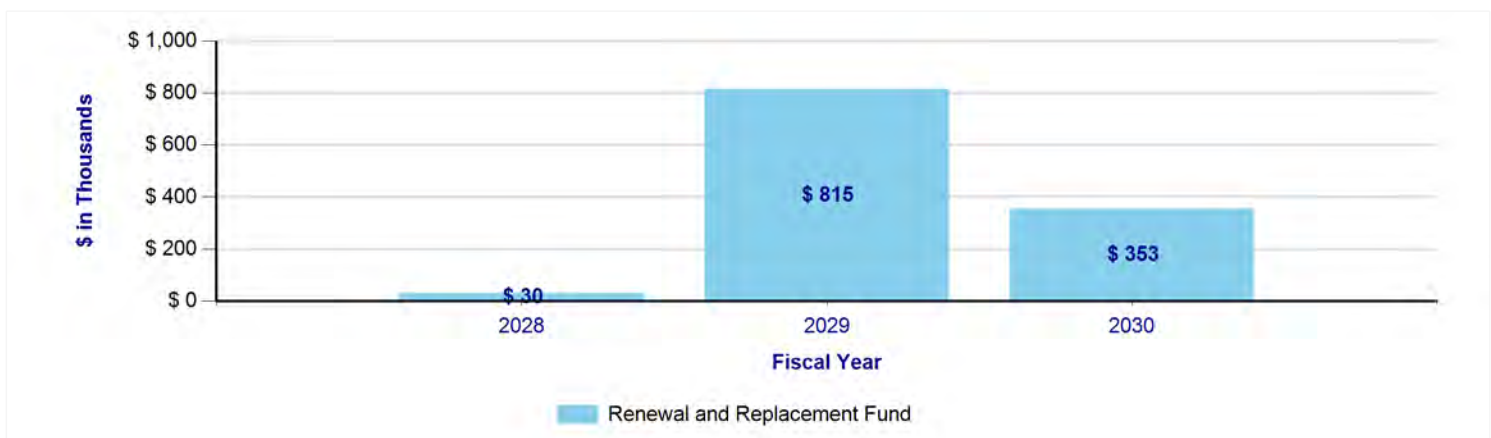
### Project Schedule

Project Phase	Start Date	End Date
Planning	4/3/2028	4/20/2028
Professional Services Selection	4/21/2028	5/22/2028
Design	5/23/2028	8/8/2028
Bidding	8/9/2028	12/5/2028
Construction	12/6/2028	2/5/2030
Close-Out	2/6/2030	4/10/2030

### Project Budget by Project Phase

Project Phase	Amount
Design	\$26,000
Bidding	\$9,000
Construction	\$1,163,000

### Expenditure Plan by Fiscal Year and Funding Source



## 50058: Tampa Bay Desalination Plant Piping Replacement

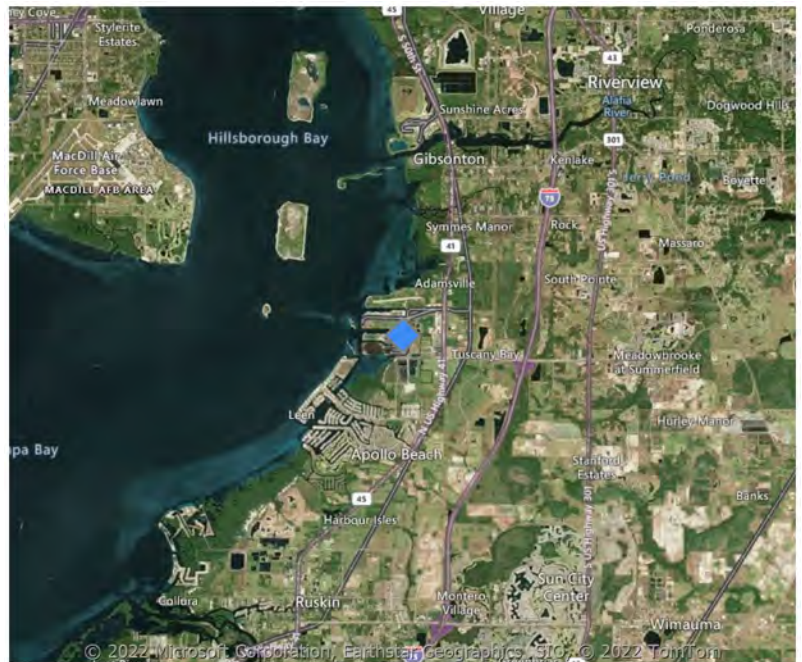
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Tampa Bay Desalination Plant and includes the installation of three new water line headers throughout the Tampa Bay Desalination Plant. Various small piping within the plant is constructed of HDPE and has leaked on numerous occasions.

### Project Location

Hillsborough County



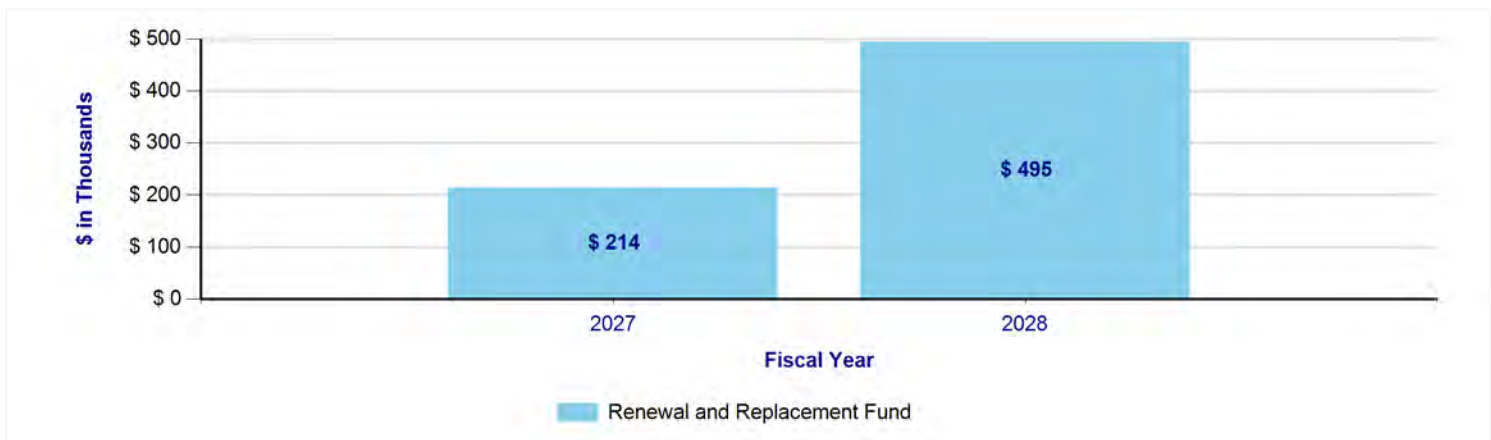
### Project Schedule

Project Phase	Start Date	End Date
Planning	1/16/2026	2/5/2026
Design	2/6/2026	3/1/2027
Bidding	3/2/2027	7/5/2027
Construction	7/6/2027	4/25/2028
Close-Out	4/26/2028	9/4/2028

### Project Budget by Project Phase

Project Phase	Amount
Bidding	\$5,000
Construction	\$704,000

### Expenditure Plan by Fiscal Year and Funding Source





## 50059: Harney Pump Station Pumps and Motors Replacement

<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

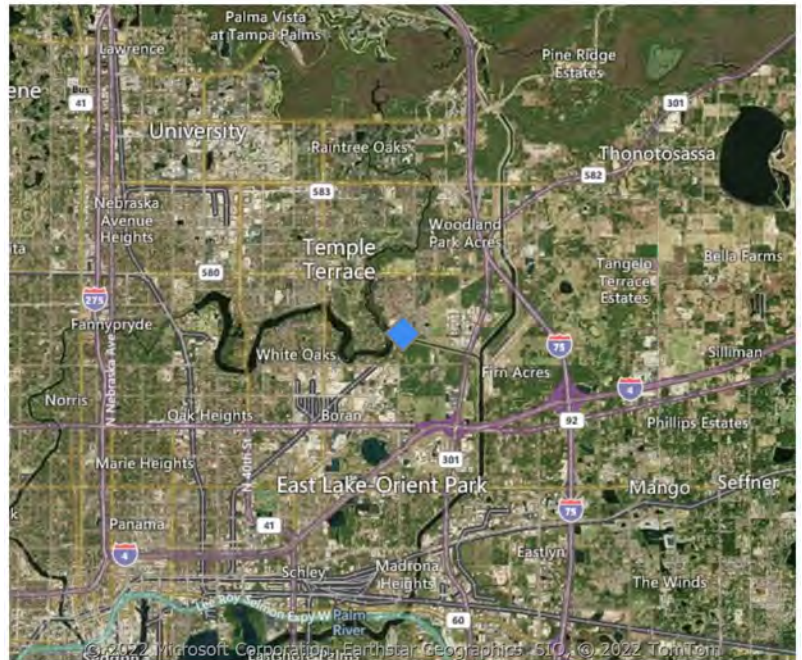
### Project Description

The projects includes: (A) replacement of two of the three existing pumps and motors at the Tampa Bypass Canal (TBC) Harney Pump Station (PS) and (B) replacement of the existing motor control components.

The Planning Phase includes the replacement of Pump No. 2 which failed after CIP approval in April 2017. Pump 2 needs to be replaced immediately to maintain the level of service of the Harney Pump Station. The second pump included in the scope of this project will be replaced according to the initial approved design and construction schedule.

### Project Location

Hillsborough County



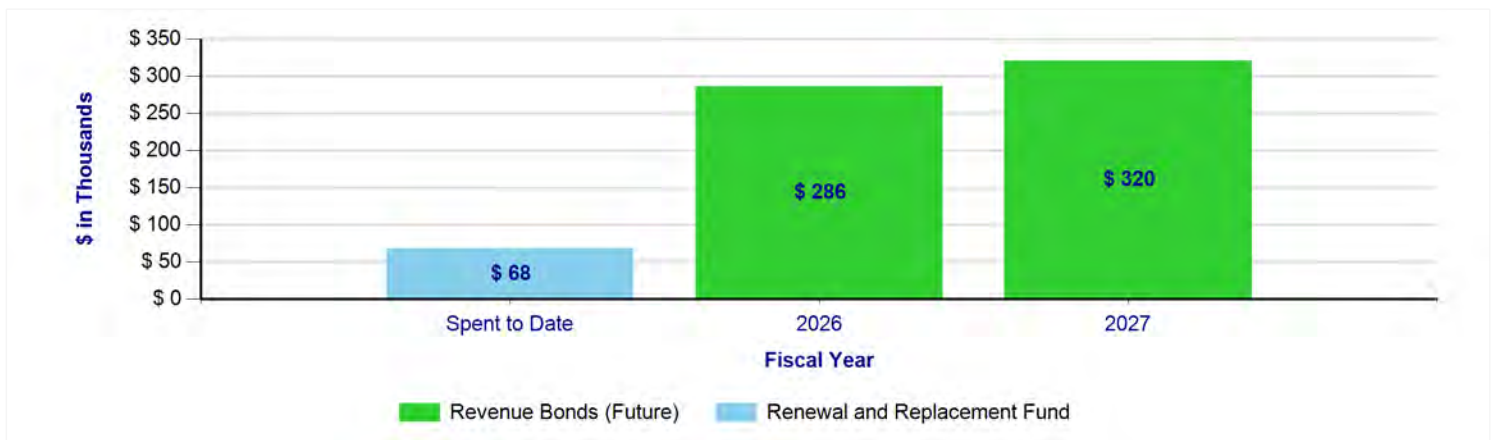
### Project Schedule

Project Phase	Start Date	End Date
Planning	8/2/2017	8/31/2018
Design	3/17/2025	10/10/2025
Bidding	10/13/2025	3/16/2026
Construction	3/17/2026	5/10/2027
Close-Out	5/11/2027	9/13/2027

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$68,268
Construction	\$791,732

### Expenditure Plan by Fiscal Year and Funding Source



## 50060: Keller Hydrogen Sulfide Facility Roofing Replacement

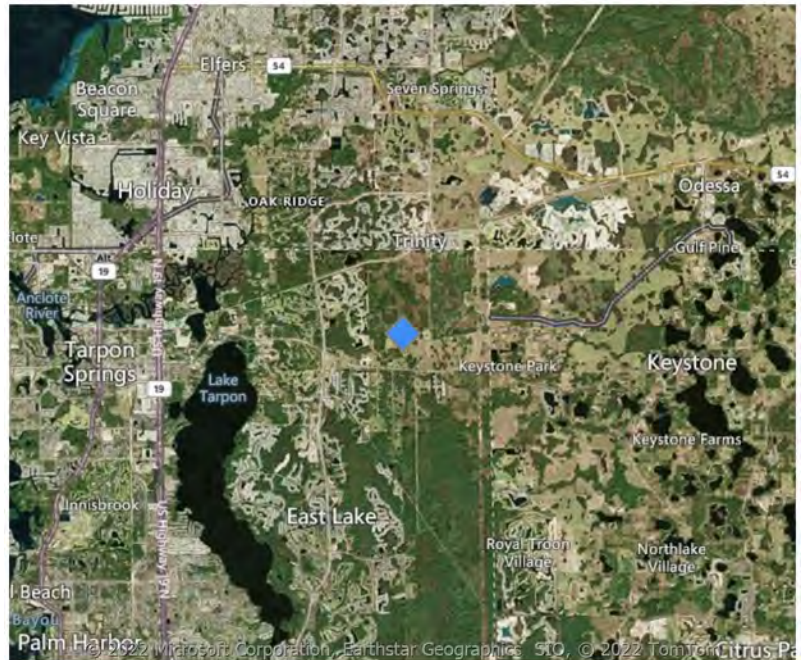
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Keller Hydrogen Sulfide Removal Facility and includes replacing the existing roof on the Transfer and Booster Pump Station buildings with a standing seam metal roof to prevent rainwater from entering the buildings.

### Project Location

Pinellas County



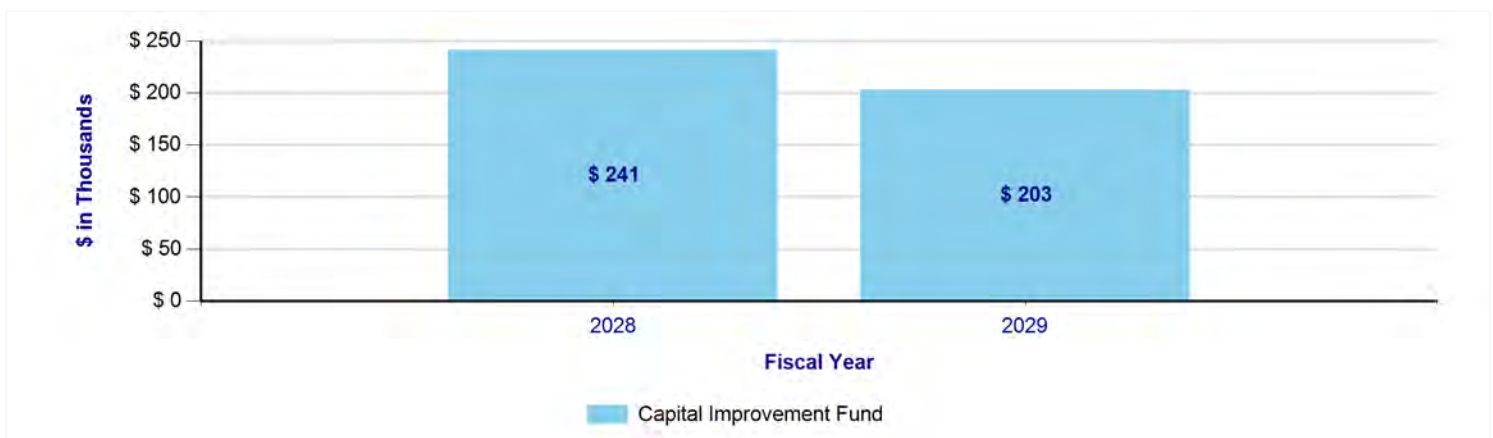
### Project Schedule

Project Phase	Start Date	End Date
Planning	10/1/2026	11/11/2026
Professional Services Selection	11/12/2025	2/16/2027
Design	2/17/2027	8/20/2027
Bidding	8/23/2027	2/15/2028
Construction	2/16/2028	4/9/2029
Close-Out	4/10/2029	8/21/2029

### Project Budget by Project Phase

Project Phase	Amount
Construction	\$444,000

### Expenditure Plan by Fiscal Year and Funding Source





## 50061: Odessa Booster Station Pumps Replacement

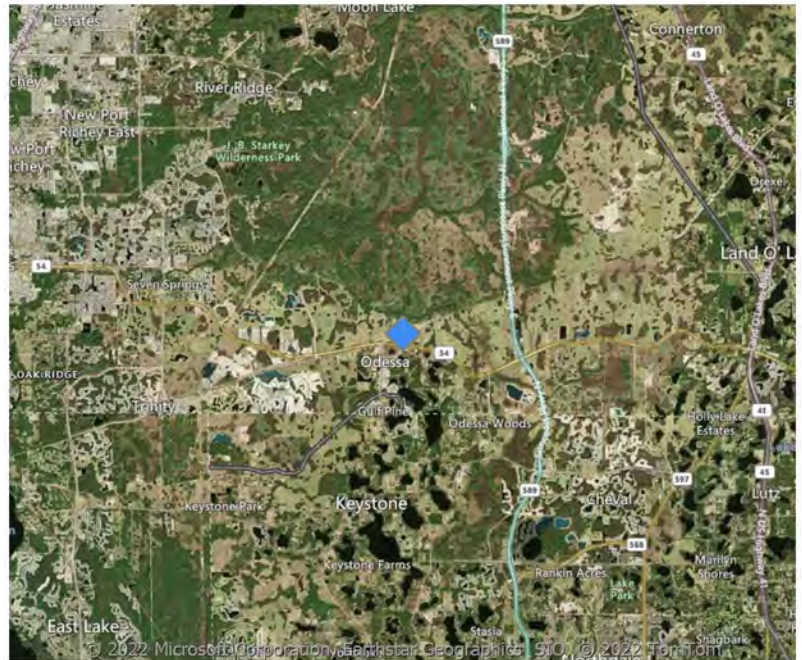
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Odessa Booster Station and includes replacing the existing 250 hp pumps with 50 hp pumps to more efficiently meet the pressure system demands and requirements.

### Project Location

Pasco County



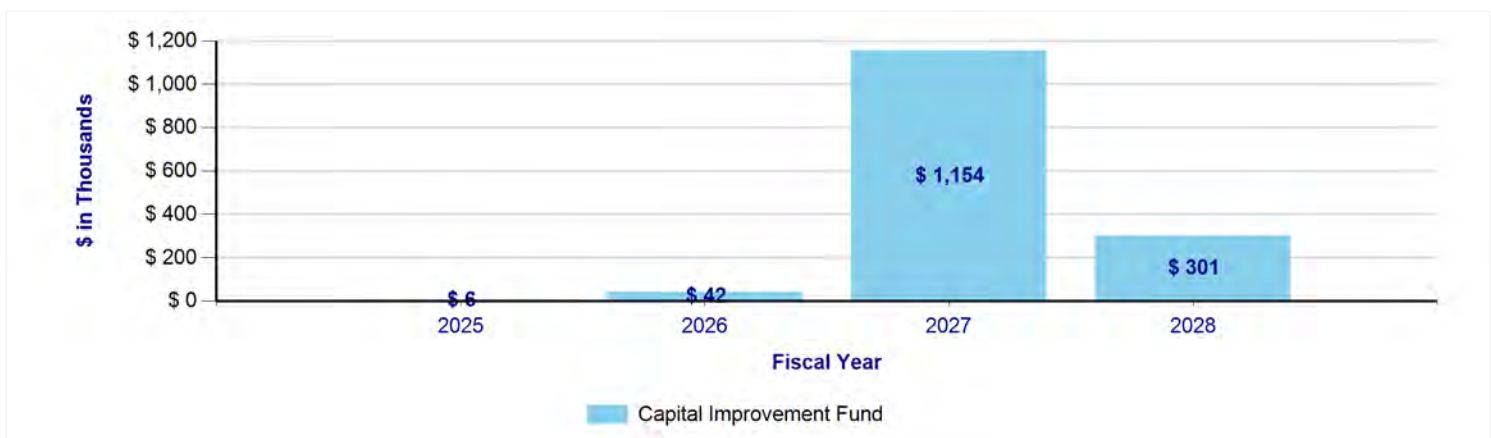
### Project Schedule

Project Phase	Start Date	End Date
Planning	4/1/2025	5/12/2025
Professional Services Selection	5/13/2025	8/19/2025
Design	8/20/2025	6/30/2026
Bidding	7/1/2026	12/15/2026
Construction	12/16/2026	12/14/2027
Close-Out	12/15/2027	4/18/2028

### Project Budget by Project Phase

Project Phase	Amount
Design	\$47,000
Bidding	\$2,000
Construction	\$1,454,000

### Expenditure Plan by Fiscal Year and Funding Source





## 50062: Tampa Bay Desalination Pipeline Reliability - Phase II

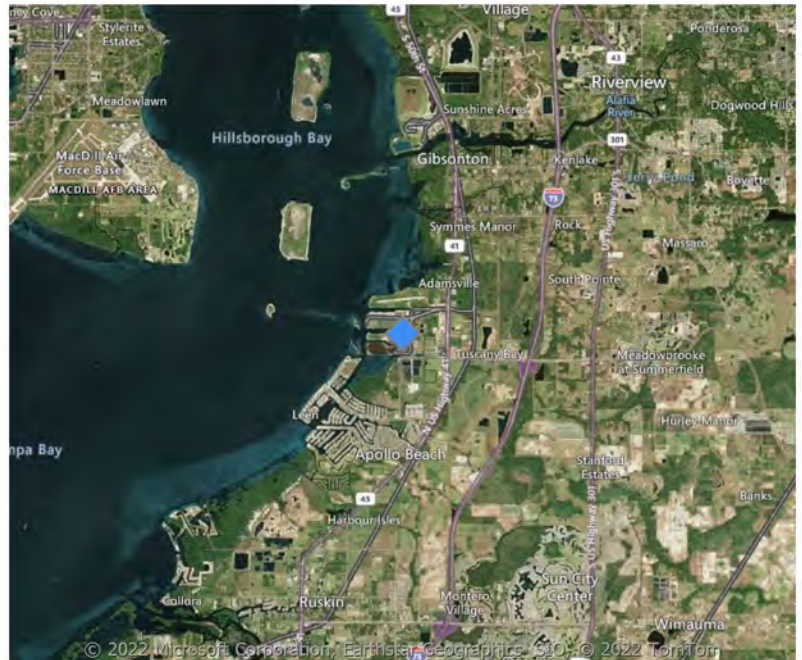
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Tampa Bay Desalination Plant and includes repairing erosion, removing vegetation, re-coating (painting), and replacing bolts and appurtenances that have corrosion on Tampa Bay Water's owned above-grade piping located on the TECO Big Bend Power Plant site. Additionally, the double contained chlorine dioxide chemical piping will be replaced. The 36-inch above grade FRP piping will be cleaned and inspected. Manways will be added to the buried 48-inch concentrate and 54-inch seawater supply HDPE piping, these will be accessed, cleaned and inspected. This project is Phase II of 3 phases to address issues identified after preliminary inspections completed in 2016.

### Project Location

Hillsborough County



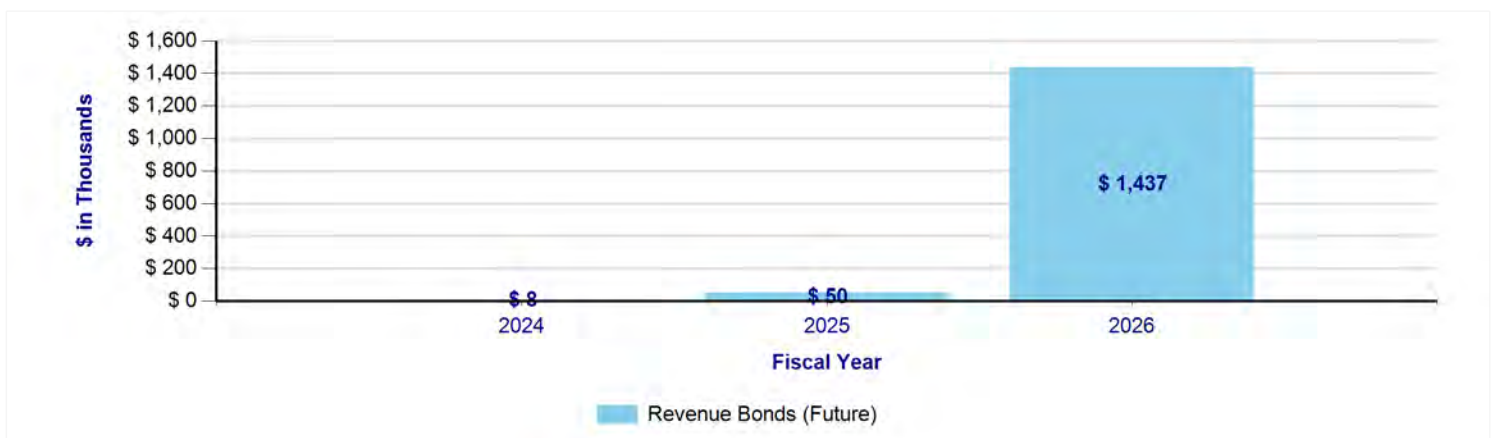
### Project Schedule

Project Phase	Start Date	End Date
Planning	6/3/2024	6/28/2024
Professional Services Selection	7/1/2024	8/21/2024
Design	8/22/2024	3/10/2025
Bidding	3/11/2025	10/22/2025
Construction	10/23/2025	7/22/2026
Close-Out	7/23/2026	10/21/2026

### Project Budget by Project Phase

Project Phase	Amount
Design	\$42,500
Bidding	\$17,500
Construction	\$1,435,000

### Expenditure Plan by Fiscal Year and Funding Source



## 50063: BUD Wells Pumps and Motors Replacement

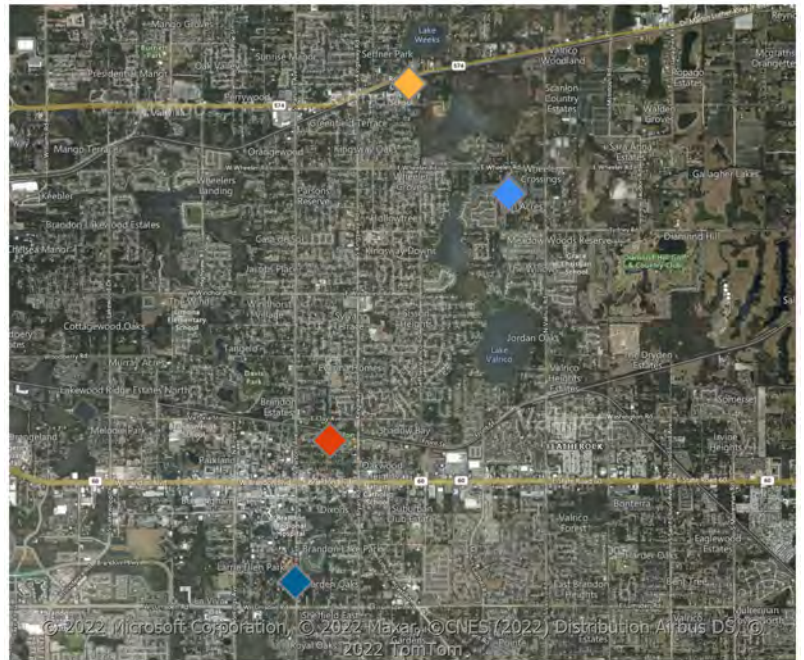
<b>Project Manager</b>	Eliana Lara
<b>Construction Manager</b>	Richard Menzies
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Brandon Urban Dispersed Wells and will replace pumps and refurbish or replace motors for BUD Wells 2, 4, and 6.

### Project Location

Hillsborough County



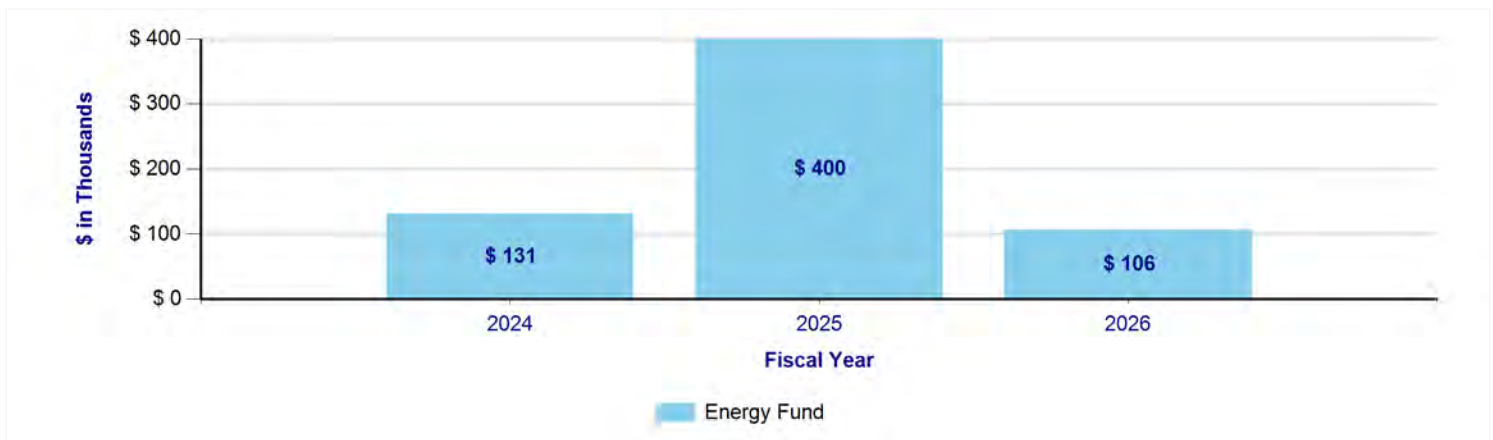
### Project Schedule

Project Phase	Start Date	End Date
Planning	10/2/2023	12/1/2023
Design	12/4/2023	7/8/2024
Bidding	7/9/2024	2/6/2025
Construction	2/7/2025	11/13/2025
Close-Out	11/14/2025	2/16/2026

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$37,000
Design	\$125,000
Bidding	\$15,000
Construction	\$497,000

### Expenditure Plan by Fiscal Year and Funding Source



## 50065: Carrollwood Wells Electrical Improvement

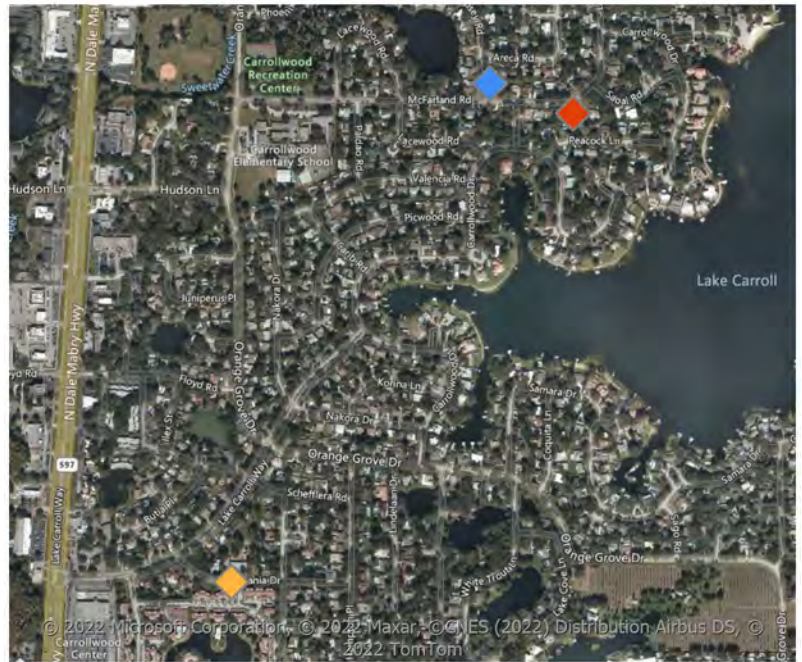
<b>Project Manager</b>	Eliana Lara
<b>Construction Manager</b>	Justin Fox
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Carrollwood Wells and includes the replacement of the existing electrical service and power distribution equipment and motor controls.

### Project Location

Hillsborough County



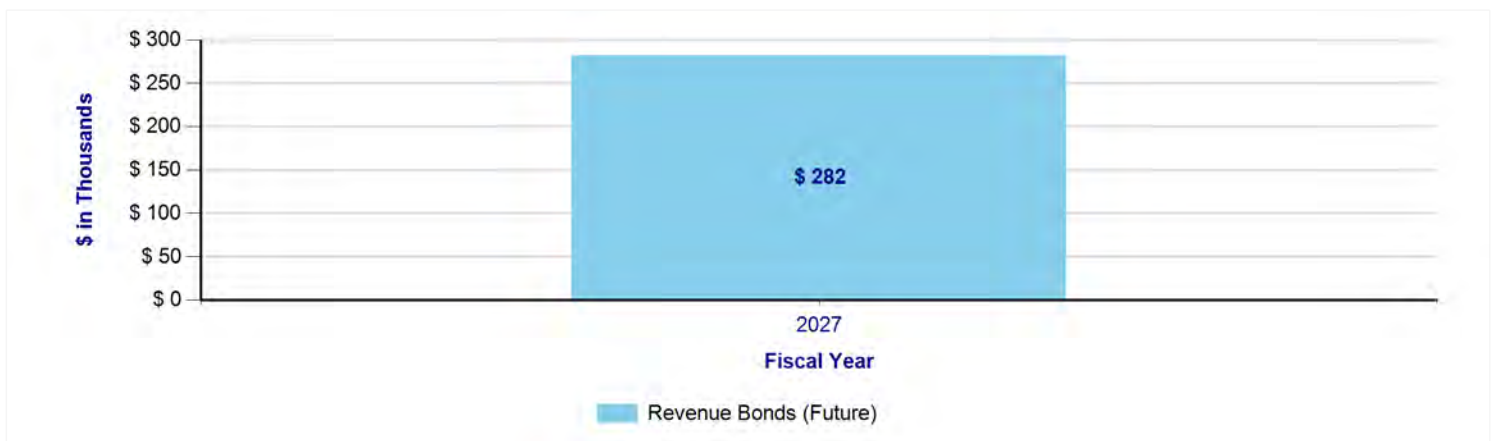
### Project Schedule

Project Phase	Start Date	End Date
Design	11/12/2025	4/29/2026
Bidding	4/30/2026	10/20/2026
Construction	10/21/2026	8/3/2027
Close-Out	8/4/2027	10/19/2027

### Project Budget by Project Phase

Project Phase	Amount
Construction	\$282,000

### Expenditure Plan by Fiscal Year and Funding Source





## 50068: Keller Hydrogen Sulfide Aeration Blowers

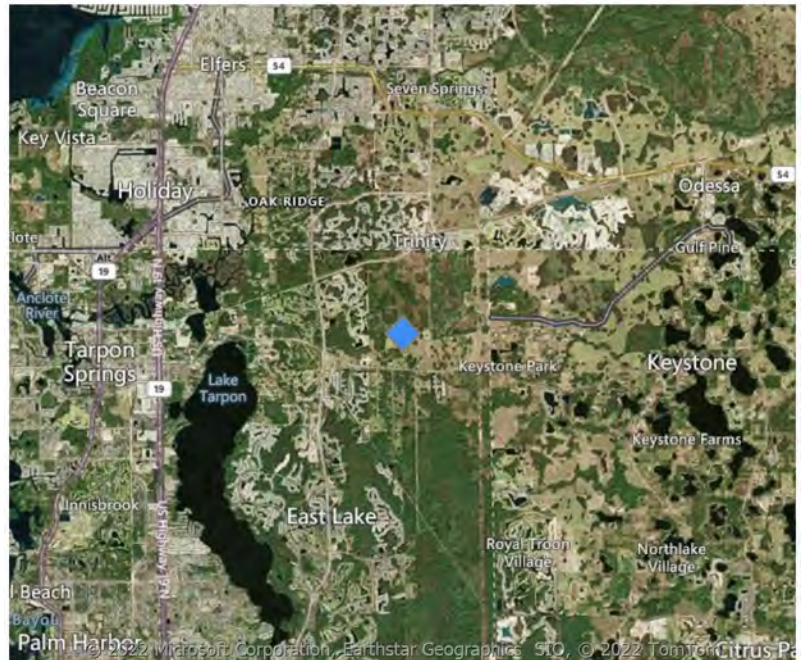
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Keller Hydrogen Sulfide Removal Facility and includes the replacement of six aeration blowers and motors and the purchase of up to two additional spares, one with a right-hand configuration and one with a left-hand configuration. Blower capacity will remain the same.

### Project Location

Pinellas County



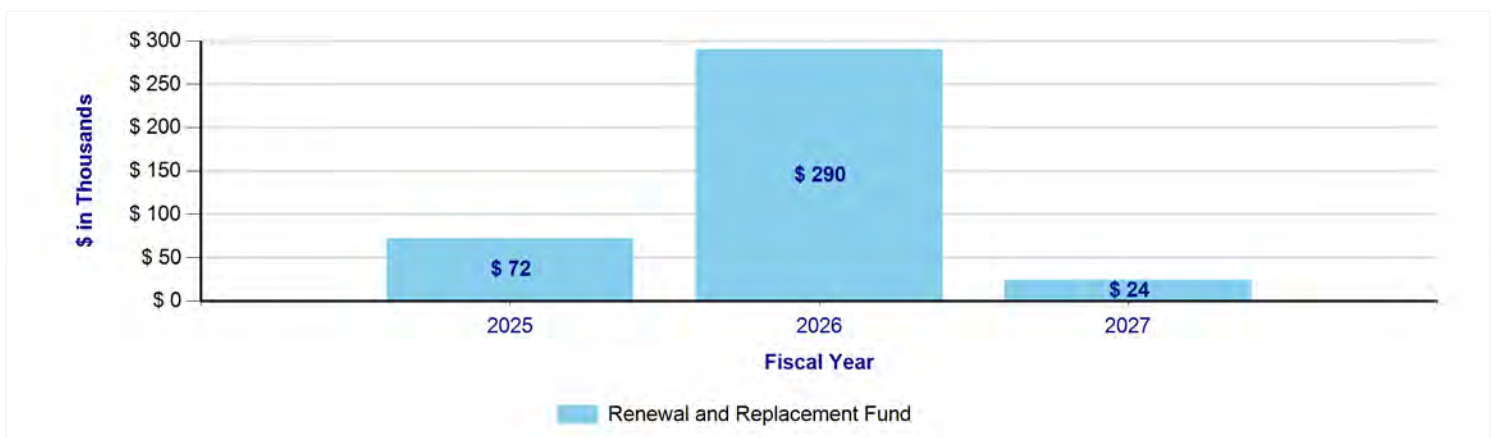
### Project Schedule

Project Phase	Start Date	End Date
Planning	6/5/2024	8/27/2024
Professional Services Selection	8/28/2024	11/11/2024
Design	11/12/2024	5/6/2025
Bidding	5/7/2025	9/5/2025
Construction	9/8/2025	8/31/2026
Close-Out	9/1/2026	12/31/2026

### Project Budget by Project Phase

Project Phase	Amount
Design	\$49,000
Bidding	\$3,000
Construction	\$302,000
Close-Out	\$32,000

### Expenditure Plan by Fiscal Year and Funding Source



## 50069: Repump Station Generator

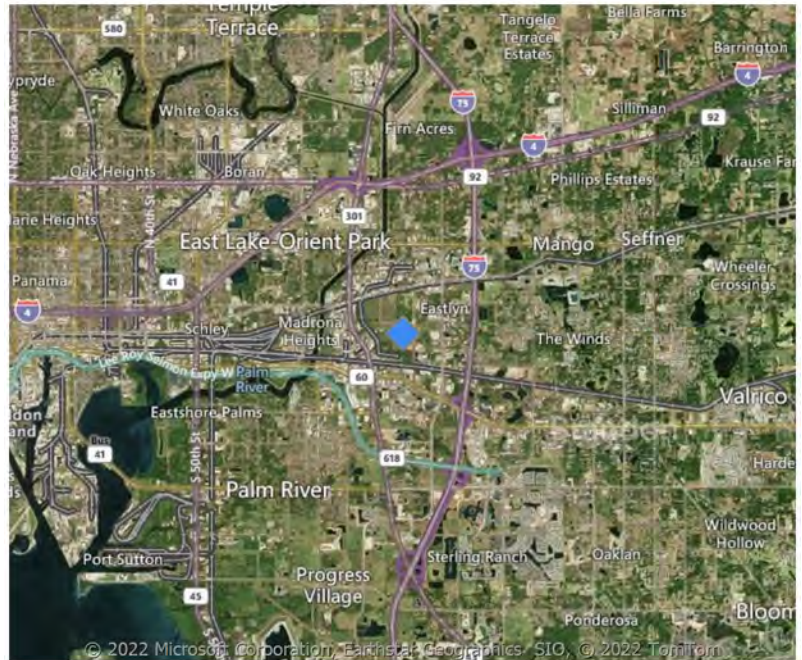
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Repump Pump Station and includes the replacement of a 200 KW mobile generator.

### Project Location

Hillsborough County



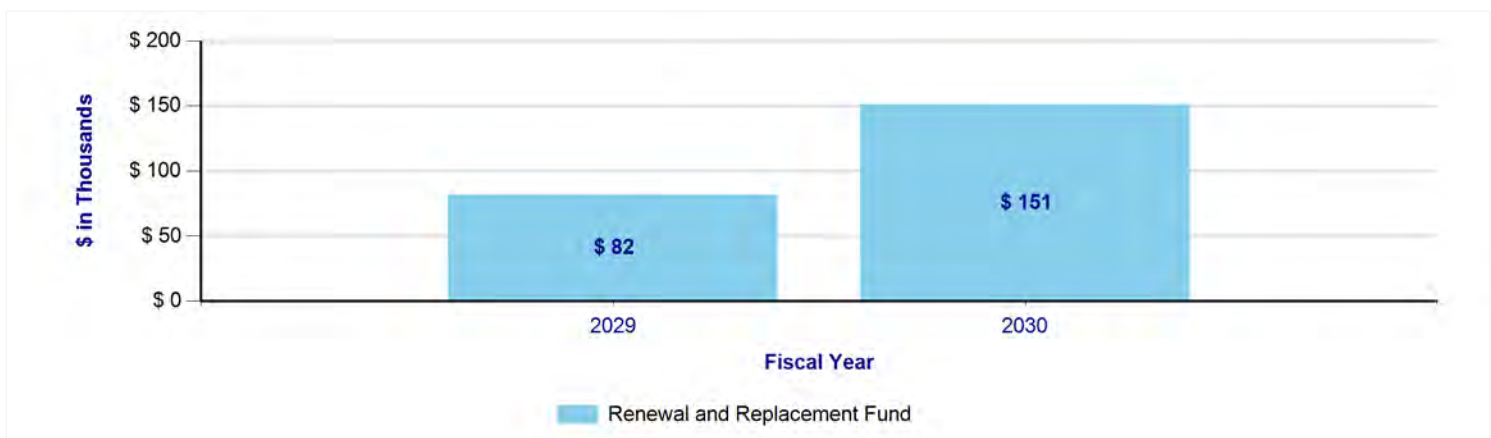
### Project Schedule

Project Phase	Start Date	End Date
Planning	1/10/2028	3/10/2028
Professional Services Selection	3/13/2028	3/13/2028
Design	3/13/2028	10/16/2028
Bidding	10/17/2028	5/17/2029
Construction	5/18/2029	5/9/2030
Close-Out	5/10/2030	8/19/2030

### Project Budget by Project Phase

Project Phase	Amount
Construction	\$218,000
Close-Out	\$15,000

### Expenditure Plan by Fiscal Year and Funding Source





## 50070: Repump Station Variable Frequency Drives

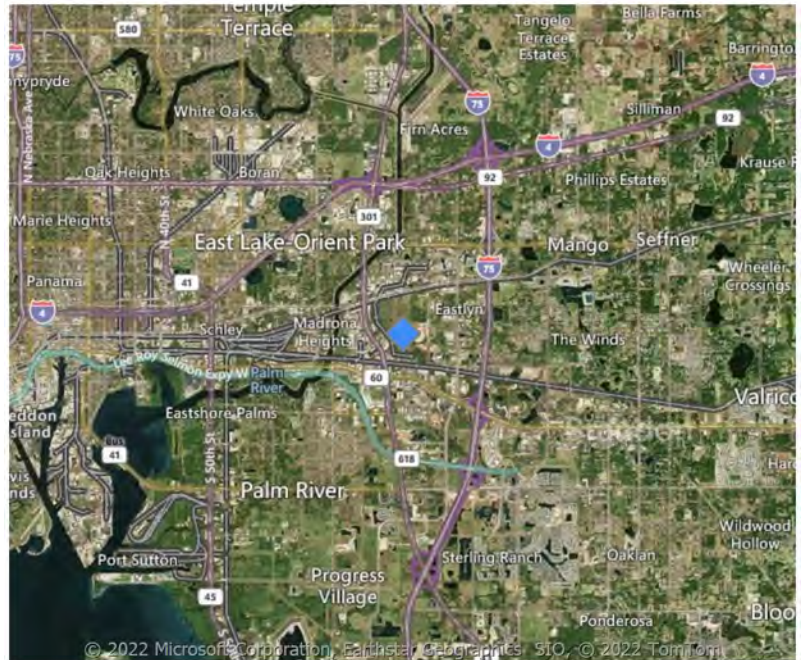
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Repump Station and includes the retrofit the existing Medium Variable Frequency Drives (VFDs) No. 2105 and No. 2106. The Renewal and Replacement model shows that these units will reach the end of useful life by 2025.

### Project Location

Hillsborough County



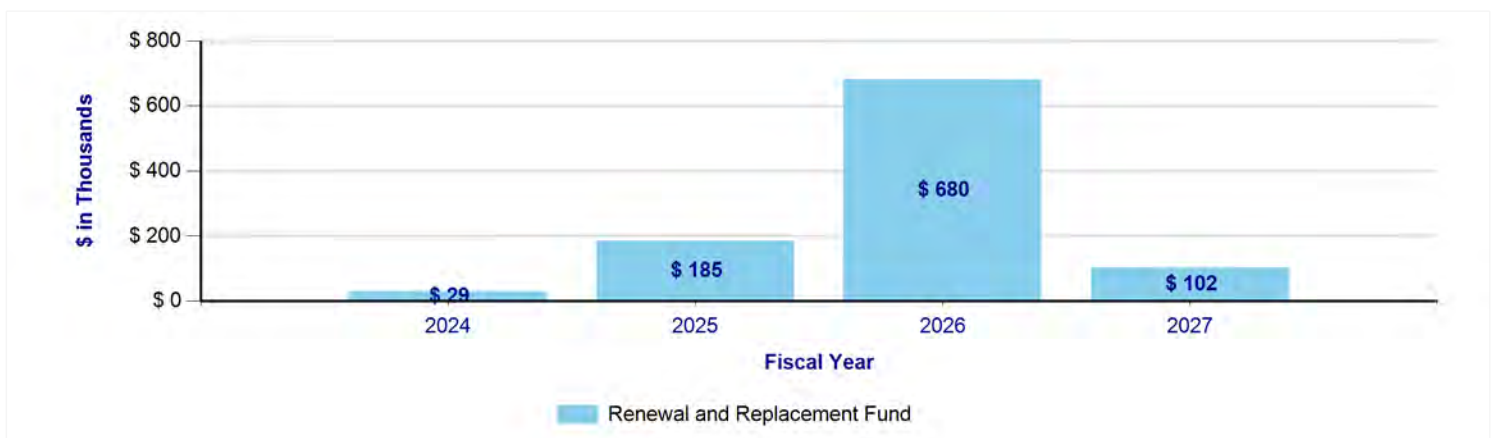
### Project Schedule

Project Phase	Start Date	End Date
Planning	11/6/2023	1/5/2024
Professional Services Selection	1/8/2024	4/25/2024
Design	4/26/2024	11/29/2024
Bidding	12/2/2024	7/2/2025
Construction	7/3/2025	10/7/2026
Close-Out	10/8/2026	12/21/2026

### Project Budget by Project Phase

Project Phase	Amount
Design	\$41,000
Bidding	\$7,000
Construction	\$863,000
Close-Out	\$86,000

### Expenditure Plan by Fiscal Year and Funding Source





## 50071: Cypress Creek Pump Station Variable Frequency Drives

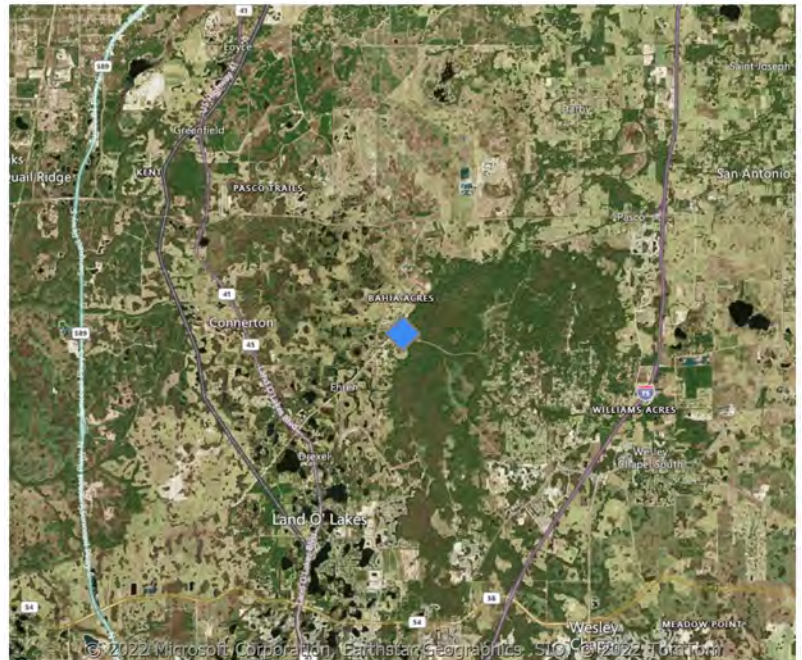
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Cypress Creek Pump Station and includes the replacement of the existing Medium Voltage Variable Frequency Drives (VFDs) No. 1 and No. 6. These VFDs will be sized for 1250 HP and 1500 HP at 4160 V. The new VFDs shall have internal transformers and the N+1 feature concerning the number of power cells. The Renewal and Replacement model shows that these units will reach the end of useful life between 2024 and 2026. The pump station will be maintained operational through-out all the work. Only one VFD shall be replaced at a time. No other work to the structure will be required.

### Project Location

Pasco County



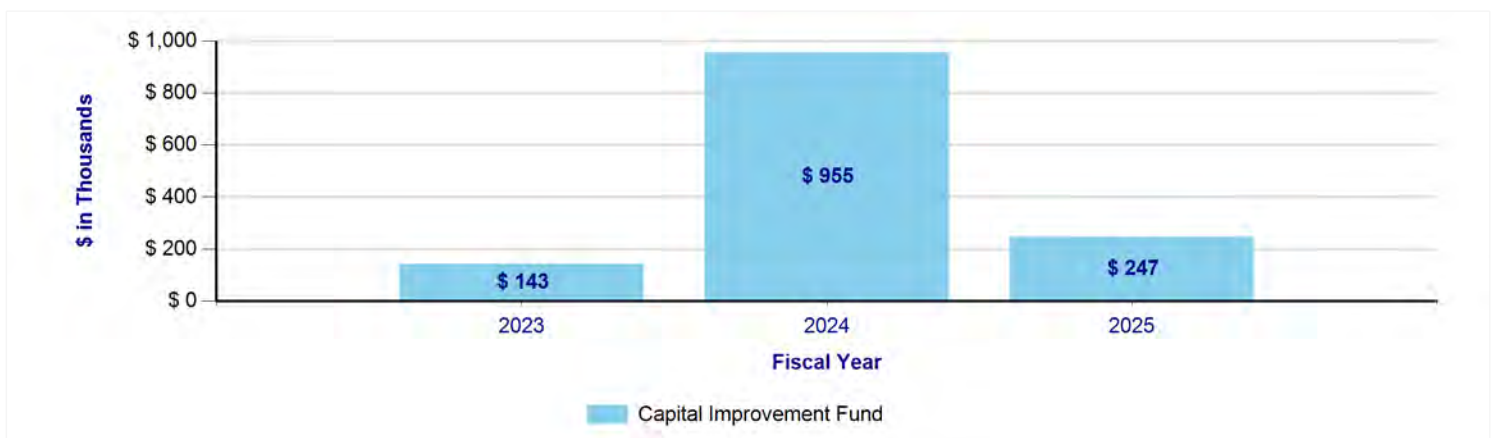
### Project Schedule

Project Phase	Start Date	End Date
Planning	6/1/2022	8/2/2022
Professional Services Selection	8/3/2022	10/26/2022
Design	10/26/2022	6/1/2023
Bidding	6/1/2023	10/17/2023
Construction	10/17/2023	11/12/2024
Close-Out	11/12/2024	2/17/2025

### Project Budget by Project Phase

Project Phase	Amount
Design	\$135,000
Bidding	\$9,000
Construction	\$1,076,000
Close-Out	\$125,000

### Expenditure Plan by Fiscal Year and Funding Source



## 50072: Keller Hydrogen Sulfide Chemical Feed System

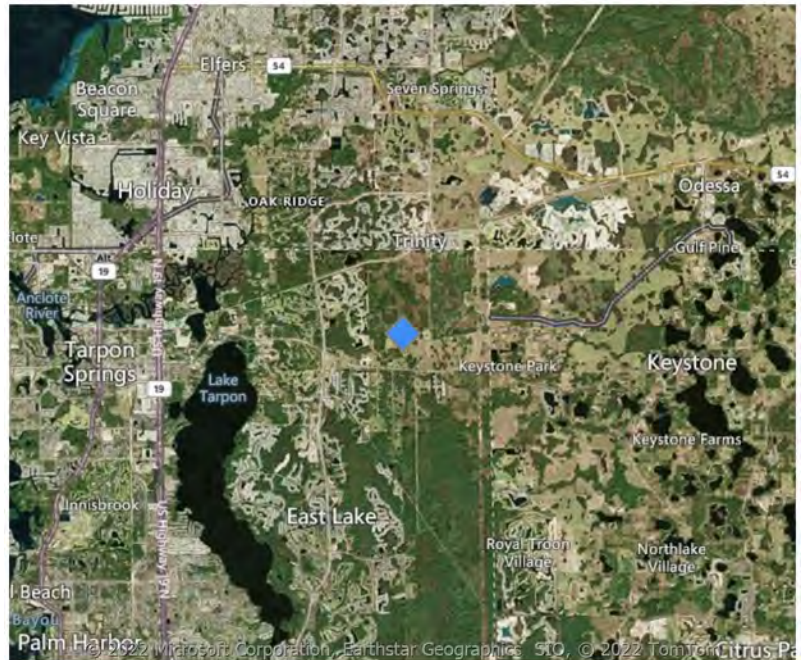
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Keller Hydrogen Sulfide Removal Facility and includes the replacement the chemical feed systems for both for sodium hydroxide and sodium hypochlorite.

### Project Location

Pinellas County



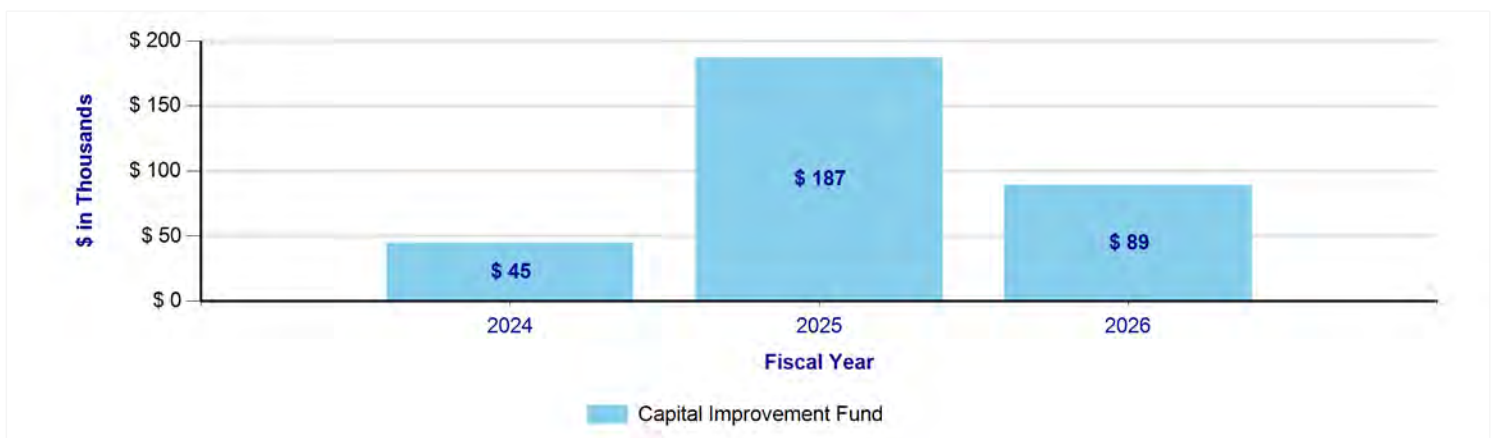
### Project Schedule

Project Phase	Start Date	End Date
Planning	11/7/2023	1/29/2024
Professional Services Selection	1/30/2024	4/18/2024
Design	4/19/2024	10/25/2024
Bidding	10/28/2024	2/20/2025
Construction	2/21/2025	12/18/2025
Close-Out	12/19/2025	4/14/2026

### Project Budget by Project Phase

Project Phase	Amount
Design	\$52,000
Bidding	\$2,000
Construction	\$242,000
Close-Out	\$25,000

### Expenditure Plan by Fiscal Year and Funding Source





## 50073: Cypress Creek Water Treatment Plant 72-Inch Valve

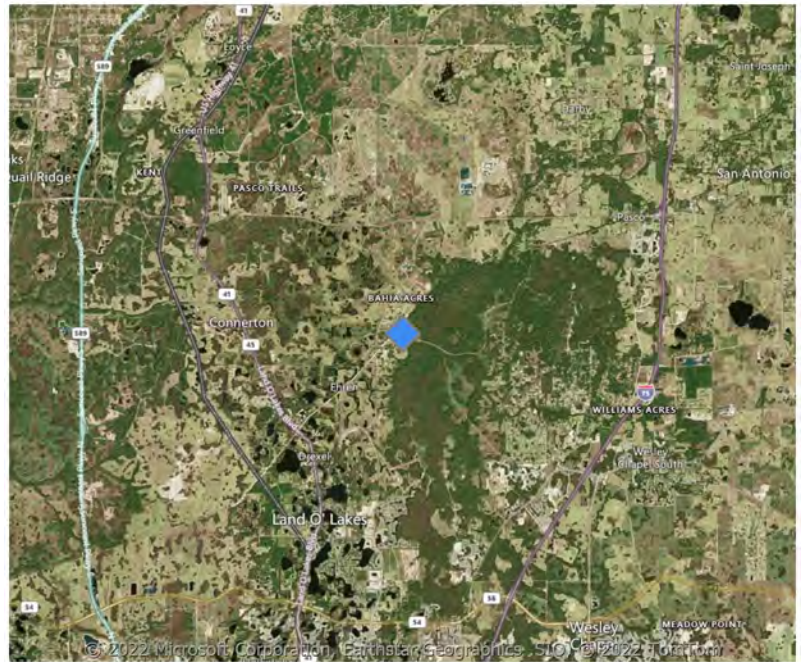
<b>Project Manager</b>	Eliana Lara
<b>Construction Manager</b>	Richard Menzies
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the north side of the Cypress Creek Water Treatment Plant (CCWTP) in Pasco County, FL. The project includes the replacement of a 72-inch butterfly valve located in the 72-in steel transmission main on the post side of the CCWTP, and the possibility of relocating the chemical injection points. A temporary bypass will be required during the repairs.

### Project Location

Pasco County



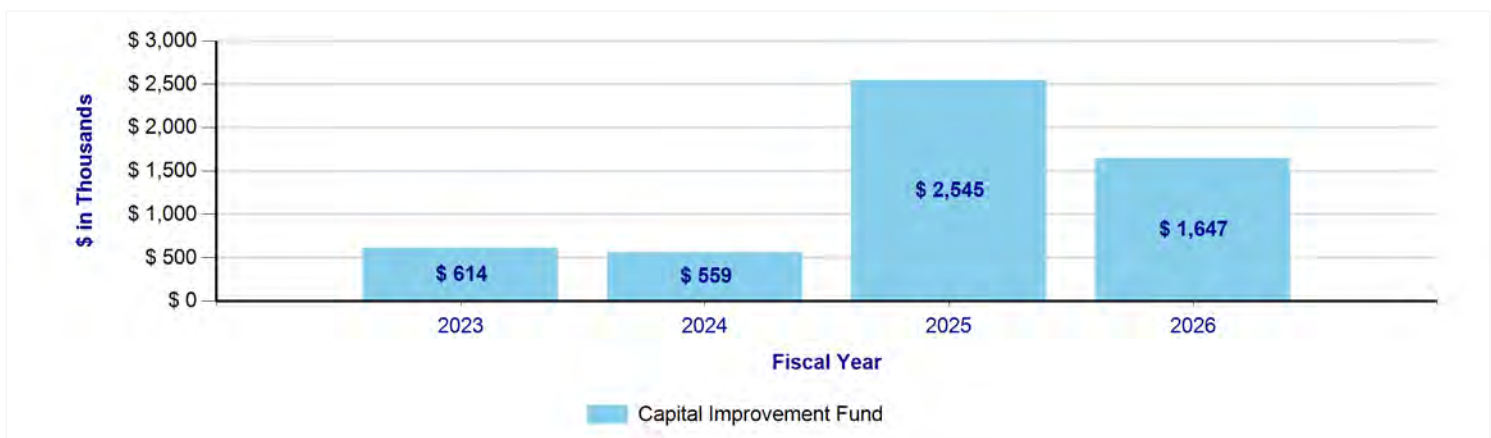
### Project Schedule

Project Phase	Start Date	End Date
Planning	1/21/2022	4/14/2022
Professional Services Selection	4/15/2022	11/7/2022
Design	11/8/2022	7/19/2024
Bidding	7/22/2024	3/26/2025
Construction	3/27/2025	1/2/2026
Close-Out	1/5/2026	3/16/2026

### Project Budget by Project Phase

Project Phase	Amount
Design	\$1,165,000
Bidding	\$28,000
Construction	\$3,806,000
Close-Out	\$366,000

### Expenditure Plan by Fiscal Year and Funding Source





## 50076: C.W. Bill Young Regional Reservoir-Dissolved Air Lines Replacement

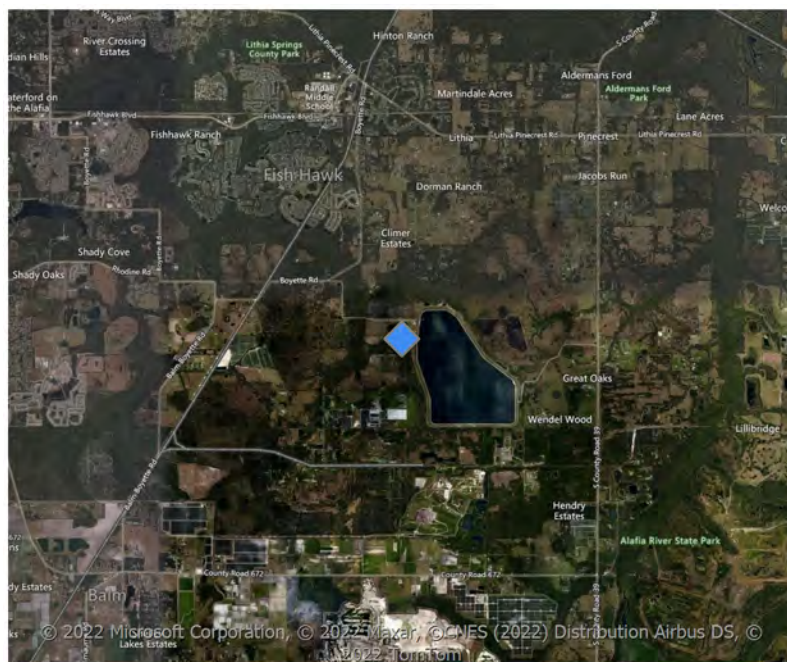
<b>Project Manager</b>	James Smith
<b>Construction Manager</b>	Richard Menzies
<b>Status</b>	Not Yet Started

### Project Description

This project will replace the porous hose portion of the dissolved air lines in the north end of the reservoir.

### Project Location

Hillsborough County



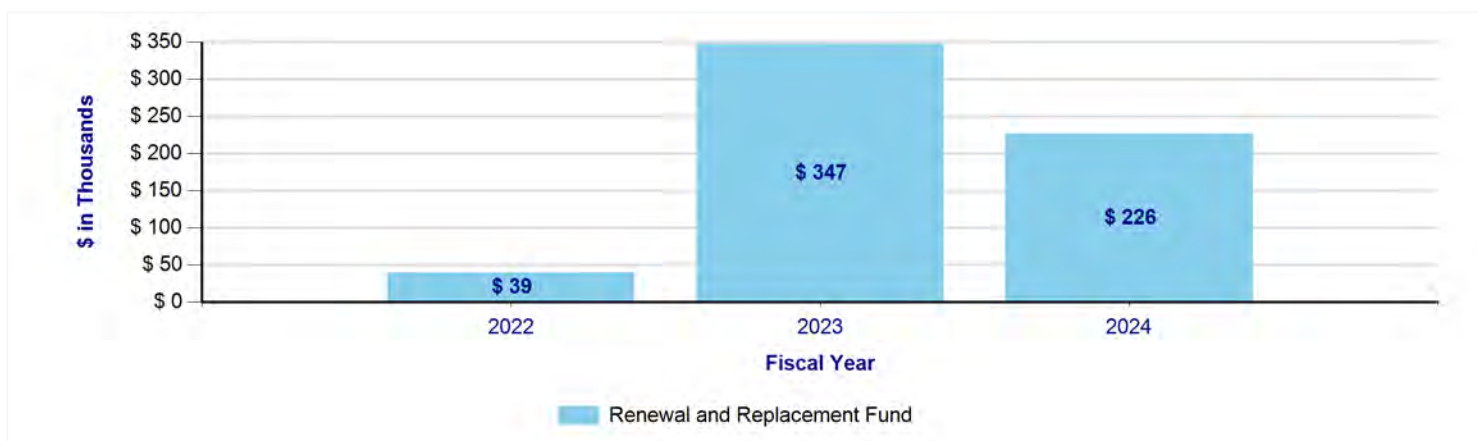
### Project Schedule

Project Phase	Start Date	End Date
Planning	4/1/2022	5/2/2022
Professional Services Selection	5/2/2022	7/18/2022
Design	6/29/2022	12/9/2022
Bidding	12/12/2022	3/20/2023
Construction	3/1/2023	3/5/2024
Close-Out	3/6/2024	4/16/2024

### Project Budget by Project Phase

Project Phase	Amount
Design	\$68,000
Bidding	\$17,000
Construction	\$523,000
Close-Out	\$4,000

### Expenditure Plan by Fiscal Year and Funding Source



## 52002: Carrollwood Pumps and Motors Refurbishment

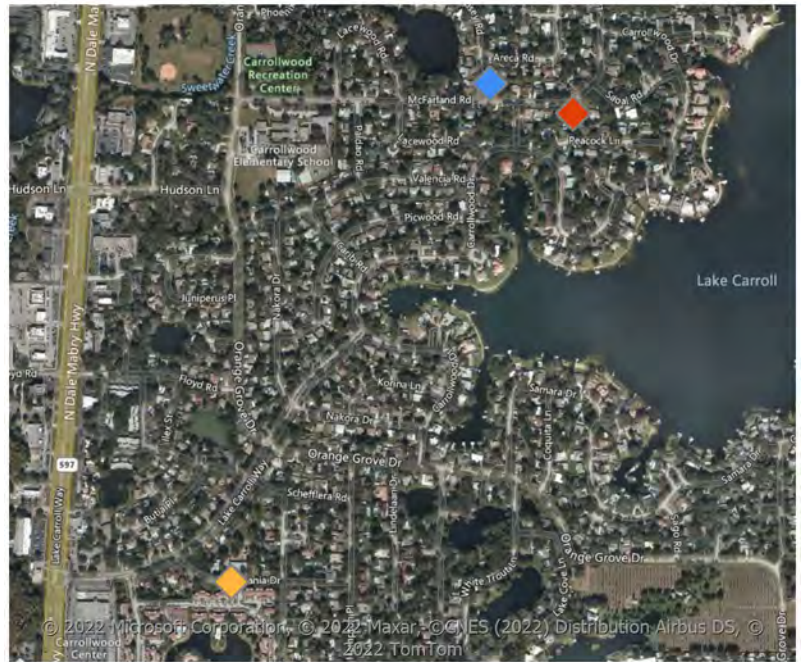
<b>Project Manager</b>	
<b>Construction Manager</b>	Justin Fox
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Carrollwood wellfield and includes the refurbishment or replacement of three vertical turbine pumps and motors within the. The pumps include 30 HP, 40 HP and 50 HP motors. The pumps shall first be removed and inspected to decide whether it is more cost-effective to refurbish or replace them. Control panels and soft starts shall also be evaluated and replaced or refurbished if needed. Improvements may include modifications to the well pump housings and/or buildings to allow for easier removal and reinstallation in the future.

### Project Location

Hillsborough County



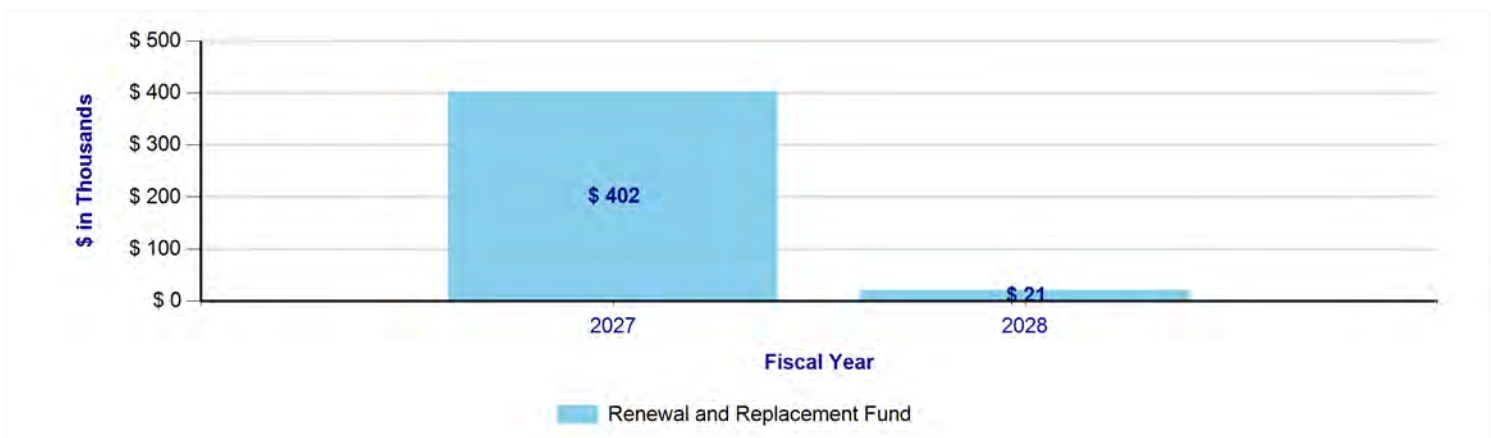
### Project Schedule

Project Phase	Start Date	End Date
Planning	10/1/2024	11/11/2025
Professional Services Selection	11/11/2025	11/11/2025
Design	11/12/2025	4/29/2026
Bidding	4/30/2026	10/20/2026
Construction	10/21/2026	8/3/2027
Close-Out	8/4/2027	10/19/2027

### Project Budget by Project Phase

Project Phase	Amount
Construction	\$335,000
Close-Out	\$88,000

### Expenditure Plan by Fiscal Year and Funding Source





## 52003: Lake Bridge Pumps and Motors

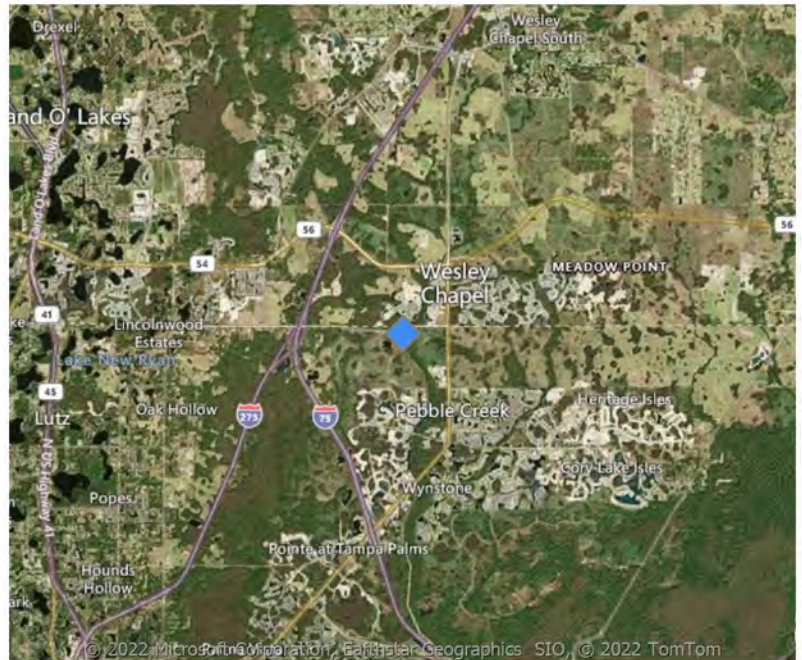
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Lake Bridge WTP and entails reconditioning the pump and motor of two 250 HP axial split case centrifugal pumps. The VFDs will also be evaluated for refurbishment or replacement if needed. Services to include retrofitting the pumps packing seals to mechanical seals. One pump will be refurbished per year and preferably during the rainy season.

### Project Location

Hillsborough County



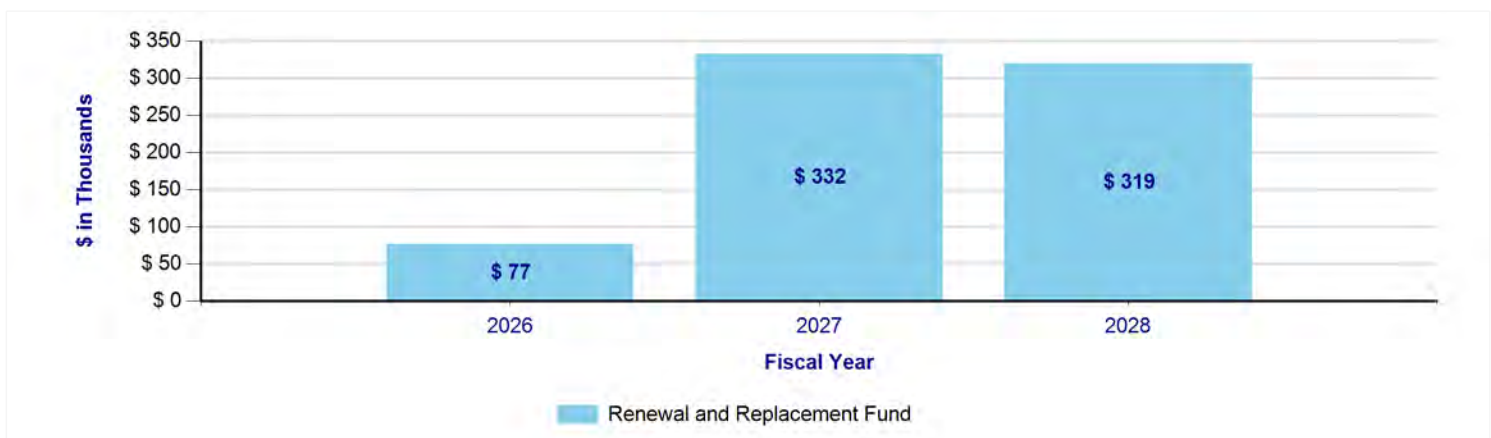
### Project Schedule

Project Phase	Start Date	End Date
Planning	6/3/2025	6/27/2025
Professional Services Selection	6/30/2025	10/20/2025
Design	10/21/2025	4/17/2026
Bidding	4/20/2026	10/19/2026
Construction	10/20/2026	4/10/2028
Close-Out	4/11/2028	6/19/2028

### Project Budget by Project Phase

Project Phase	Amount
Design	\$72,755
Bidding	\$4,245
Construction	\$515,000
Close-Out	\$136,000

### Expenditure Plan by Fiscal Year and Funding Source





## 52005: Tampa-Hillsborough Interconnect Pump Station

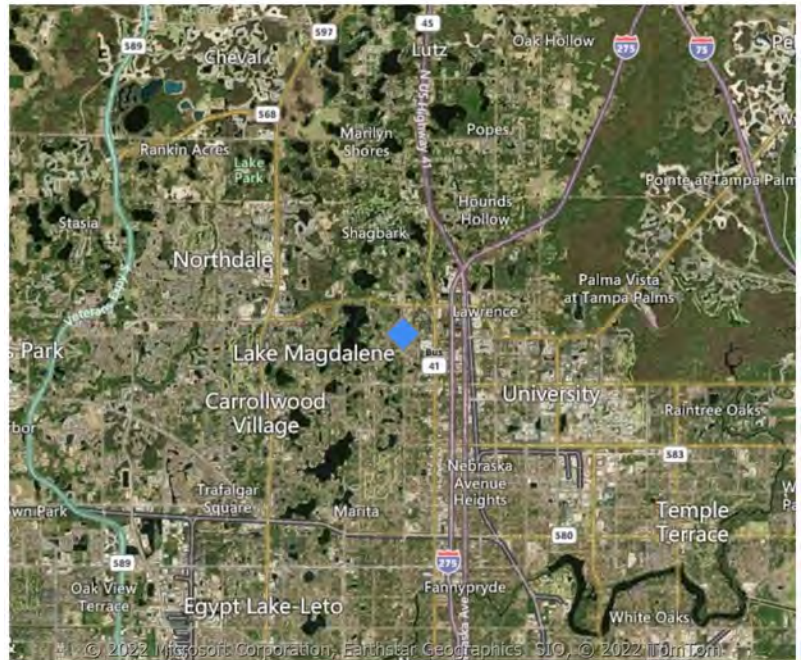
<b>Project Manager</b>	
<b>Construction Manager</b>	
<b>Status</b>	Not Yet Started

### Project Description

This project is located at the Tampa-Hillsborough Interconnect Pump Station. The project entails the replacement of the 20-horsepower pump and motor (No. 3) with a 75-horsepower pump and motor including all piping and electrical modifications including a Variable Frequency Drive. The project also includes the inspection and repair or direct replacement of the remaining original 200-horsepower pump and motor (No. 1), and piping and electrical modifications.

### Project Location

City of Tampa



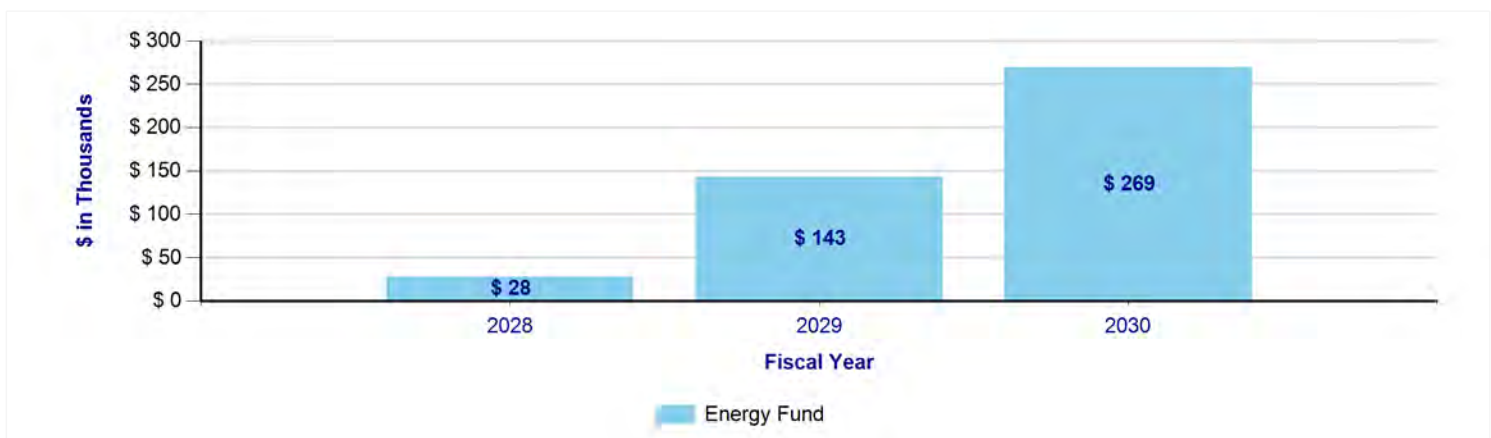
### Project Schedule

Project Phase	Start Date	End Date
Planning	2/18/2028	12/13/2028
Professional Services Selection	3/17/2028	6/29/2028
Design	8/10/2028	2/8/2029
Bidding	2/9/2029	5/23/2029
Construction	5/24/2029	6/26/2030
Close-Out	6/27/2030	8/19/2030

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$28,000
Design	\$26,000
Bidding	\$3,000
Construction	\$356,000
Close-Out	\$28,000

### Expenditure Plan by Fiscal Year and Funding Source



## 90003: System Configuration III-New Water Supply-Placeholder

<b>Project Manager</b>	Maribel Medina
<b>Construction Manager</b>	Maribel Medina
<b>Status</b>	Not Yet Started

### Project Description

This is a placeholder project to identify future funding needs. The 2018 Long-term Master Water Plan (Plan) was approved in December 2018. The Plan included several recommendations including further study of the feasibility of three top-ranked water supply projects to meet the region's future water supply needs. Projects currently being studied for feasibility include:

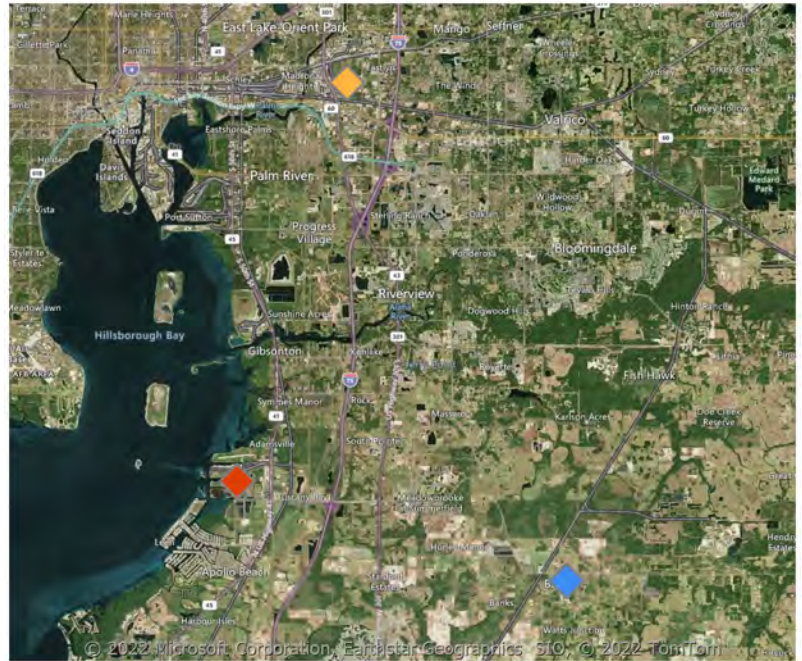
- Surface Water Treatment Plant Expansion: Feasibility Study (Project 09014)
- Desalination Treatment Plant Expansion: Feasibility Study (Project 09015)
- South Hillsborough Wellfield: Feasibility Study (Project 01611)

Once completed, the feasibility studies will help in the development of a recommendation for the eventual selection and construction timing of one or more projects. A selection will be made by Tampa Bay Water's Board in December 2022.

For planning purposes, the basis of the cost estimate used as a placeholder is the Desalination Treatment Plant Expansion which is the project with the highest capital costs. These costs are based on costs included in the Plan and escalated to the actual implementation timeframe of the project.

### Project Location

Hillsborough County



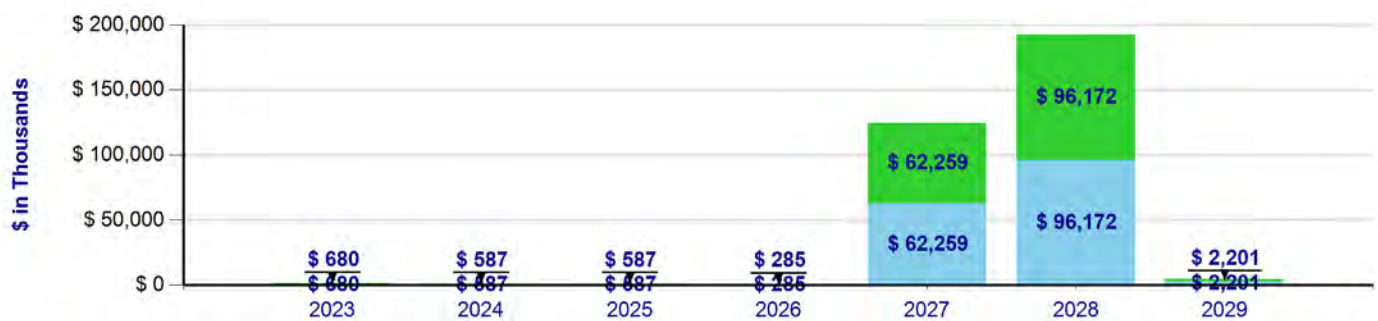
### Project Schedule

Project Phase	Start Date	End Date
Planning	8/1/2022	10/2/2023
Professional Services Selection	8/1/2022	6/19/2023
Design	12/13/2022	1/28/2026
Bidding	1/29/2026	3/15/2027
Construction	3/15/2027	7/27/2028
Close-Out	7/27/2028	11/20/2028

### Project Budget by Project Phase

Project Phase	Amount
Professional Services Selection	\$420,000
Design	\$3,680,000
Bidding	\$300,000
Construction	\$310,993,000
Close-Out	\$10,150,000

### Expenditure Plan by Fiscal Year and Funding Source





## : Water Quality Improvements Program-Placeholder

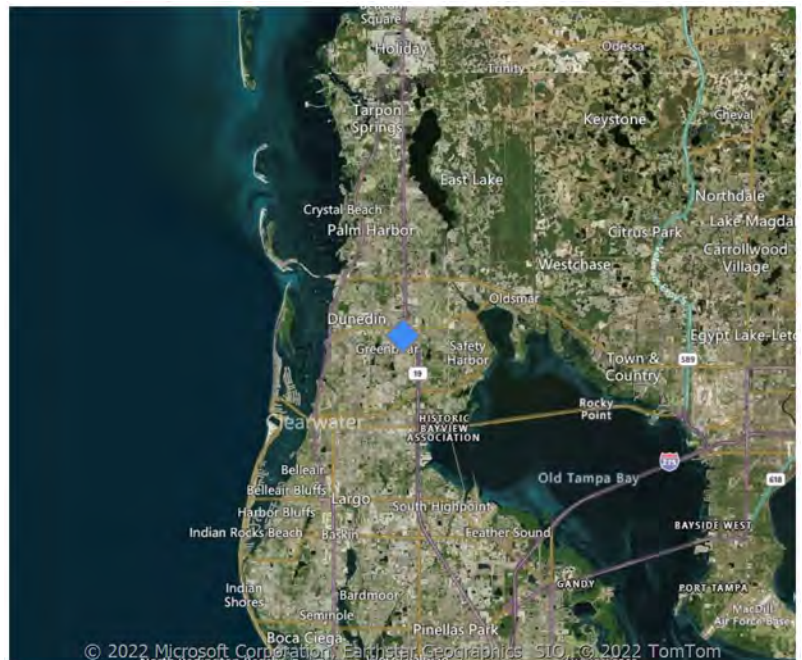
<b>Project Manager</b>	Maribel Medina
<b>Construction Manager</b>	
<b>Status</b>	

### Project Description

This is placeholder for future not yet determined Water Quality Improvements Projects. Tampa Bay Water is conducting a Regional Water Quality Study that will identify improvements that will result in individual capital projects. The study will be completed in the spring of 2022. Projects identified through the study will be prioritized and added to the CIP cycle covering FY 2023-2032 and the corresponding costs deducted from this placeholder project.

### Project Location

Multiple



### Project Schedule

Project Phase	Start Date	End Date
Planning	10/17/2022	9/29/2030

### Project Budget by Project Phase

Project Phase	Amount
Planning	\$348,596,000

### Expenditure Plan by Fiscal Year and Funding Source





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