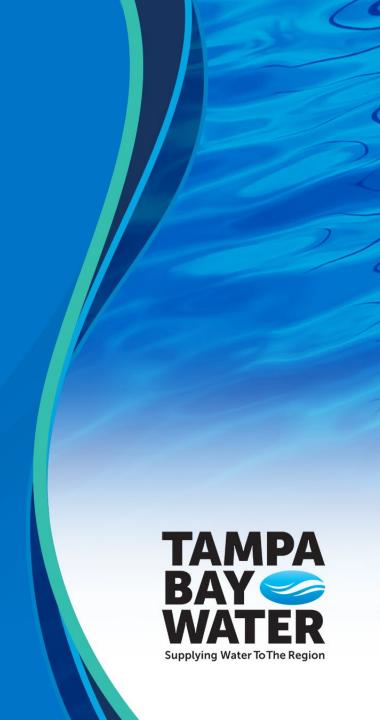
Construction Update

Agenda Item D.2 September 20, 2021

Rick Menzies, P.E. Construction Manager Tampa Bay Water





Projects Closed Out In Fiscal Year 2021

6 projects closed out Total cost of \$6.4 million – 6.2% under budget

- Tampa Bypass Canal Pump Station Starters Replacement
- 2. Surface Water Treatment Plant Entrance Canopy
- 3. South-Central Hillsborough Wellfield Generators & Pump Motors Replacement
- 4. South-Central Hillsborough Wellfield Improvements
- 5. High Service Pump Station Switchgear & Generator Controls Upgrades
- 6. Purchasing Warehouse Replacement



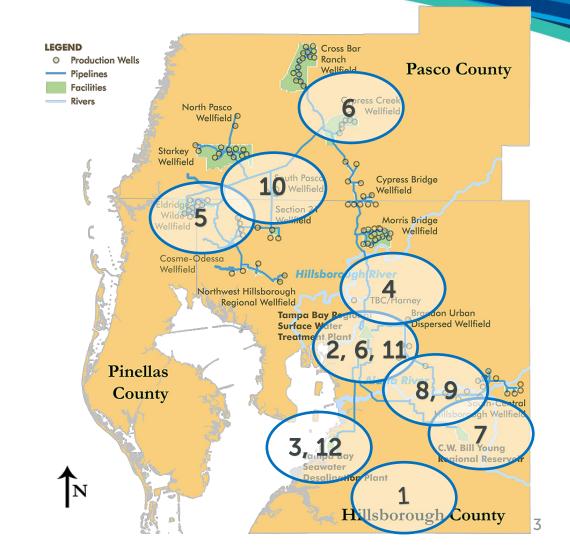
New Purchasing Warehouse storage area



Current Construction Overview Map

Current Projects:

- 1. South Hillsborough test well
- 2. Regional Facility Pump Station expansion
- 3. Tampa Bay Desalination Facility intake connection improvements, phase 1
- 4. Tampa Bypass Canal gates automation
- 5. Eldridge-Wilde Wellfield improvements
- 6. Cypress Creek Water Treatment Plant & High Service Pump Station diesel piping improvements
- 7. C.W. Bill Young Regional Reservoir solar energy system
- 8. Brandon Booster Station, GMP 1 Lithia flow control valve
- 9. Brandon Booster Station, GMP 2 Early purchase of material
- 10. South Pasco Water Treatment Plant caustic feed system
- 11. Repump Station Raw Water Line valve repair
- 12. Tampa Bay Desalination Facility finished water line repair



Total construction cost: \$25.3 million



South Hillsborough Wellfield Test Well





Drill rigs set up for the test well and a monitor well

Cost: \$906,290

Completion of construction: September 2021



Collecting water samples



Cutting samples



Regional Facility Pump Station Expansion





Pump and motor set in place



Variable Frequency Drive and Breaker

Cost: \$2,168,480 (co-funded by the Southwest Florida Water Management District)

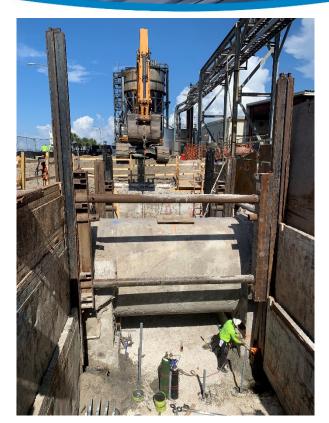
Completion: May 2022

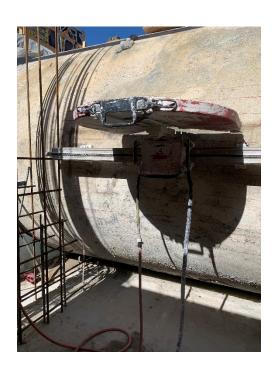
TAMPA Tampa Bay Desalination Facility Intake BAY Connection Improvements, Phase 1

Provides an additional seawater intake location



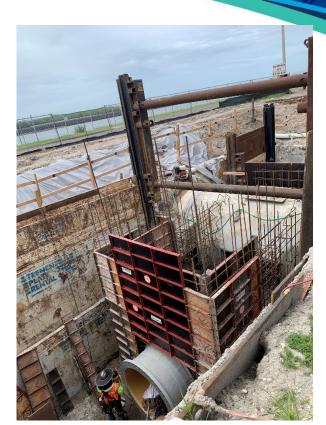
TAMPA Tampa Bay Desalination Facility Intake BAY Connection Improvements, Phase 1











Manhole for valve and 54" stub-out pipe

Excavate and expose the side of the tunnel

Cost: \$1,726,000

Completion: December 2021



Tampa Bypass Canal Gates Automation





Automated actuator



Motorized actuator connected to the gate



Setting the open/close limit switches

Cost: \$1,028,250 (co-funded by the Southwest Florida Water Management District)

Completion: December 2021



Eldridge-Wilde Wellfield Improvements





Wellhouse to be replaced



New gate valves to be installed



New access road installation

Cost: \$13,321,865 (up to \$750,000 in state funding)

Completion: Summer 2023



Eldridge-Wilde Wellfield Improvements





Existing powerlines



Clearing of Cypress Trails property



Access road to Lake Dan Preserve

Cost: Tampa Electric \$ 531,528

Duke Energy \$ 959,879

Completion: Late 2022



Cypress Creek Water Treatment Plant & High Service Pump Station Diesel Piping Improvements

Automates filling and prevents spills



High Service Pump Station diesel fuel tanks



Corrosion in fuel tank to be replaced

Cost: \$373,200

Completion: Spring 2022

TAMPA C.W. Bill Young Regional Reservoir BAY Solar Energy System

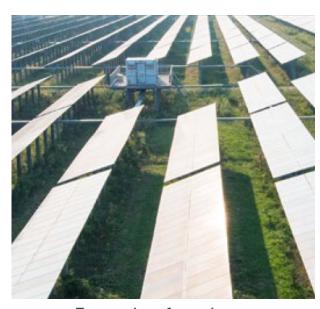
• Offsets commercial electric consumption with solar power



Planned location of panels



Site of the new solar array



Example of a solar array

Cost: \$1,495,671

Completion: Summer 2022



TAMPA BAY New projects getting started WATER

Project	Contract Amount	Planned Completion
Brandon Booster Station, 1 Lithia point of connection flow control valve	\$ 263,050	Feb 2022
Brandon Booster Station, 2 Early equipment procurement	\$ 3,865,759	Feb 2023
South Pasco Water Treatment Plant caustic feed system	\$ 1,118,050	Sep 2022
Repump station raw water line valve repair	\$ 942,902	Feb 2022
Tampa Bay Desalination Facility finished water line repair	\$ 660,000	Nov 2021





