

Utilities Department

Taylor Creek Reservoir/ St. Johns River Water Supply Project

August 22, 2017



Presentation Overview

- **Introduction**
- **History**
- **Benefits**
- **Agreements**
- **Requested Action**



Presentation Overview

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Introduction

- Request approval of five agreements and a letter of support for Taylor Creek Reservoir/St. Johns River (TCR/SJR) Water Supply Project
- Project required in OCU permits
- Growth within the existing urban service boundary requires water from this project



Introduction

- Orange County is the 5th largest county in Florida and 34th in the US
- Growth in Florida and Orange County is expected to continue
- Project provides the County a way to do long-term, smart growth planning

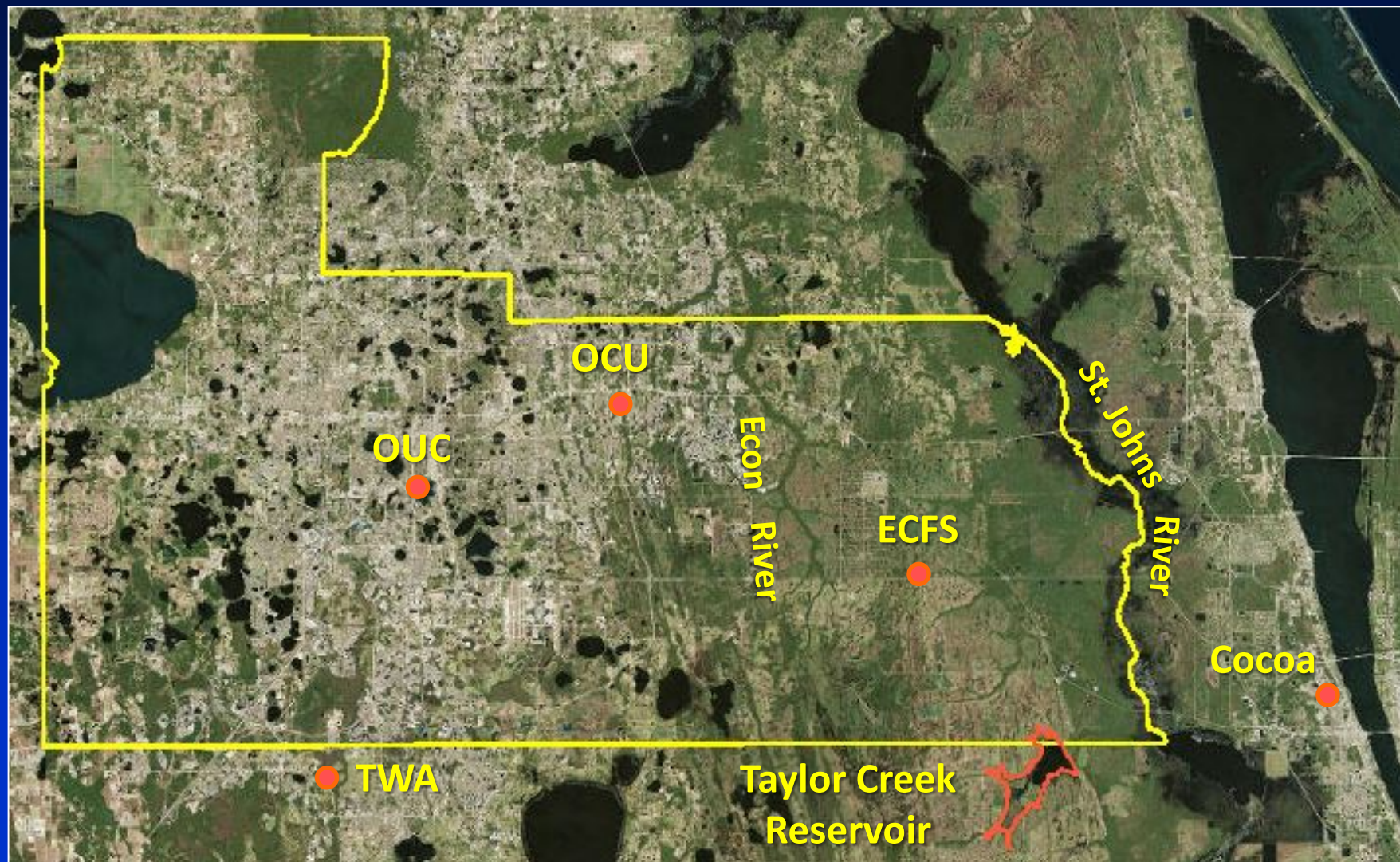


Introduction

- **TCR/SJR Project is a regional surface water supply project**
 - Public and agricultural uses
 - Uses Taylor Creek Reservoir to store water
 - Supplemented with water from the St. Johns River
- **Identified by the SJRWMD in all its Regional Water Supply Plans since 2005**
- **To be evaluated by OCU and four other utilities**

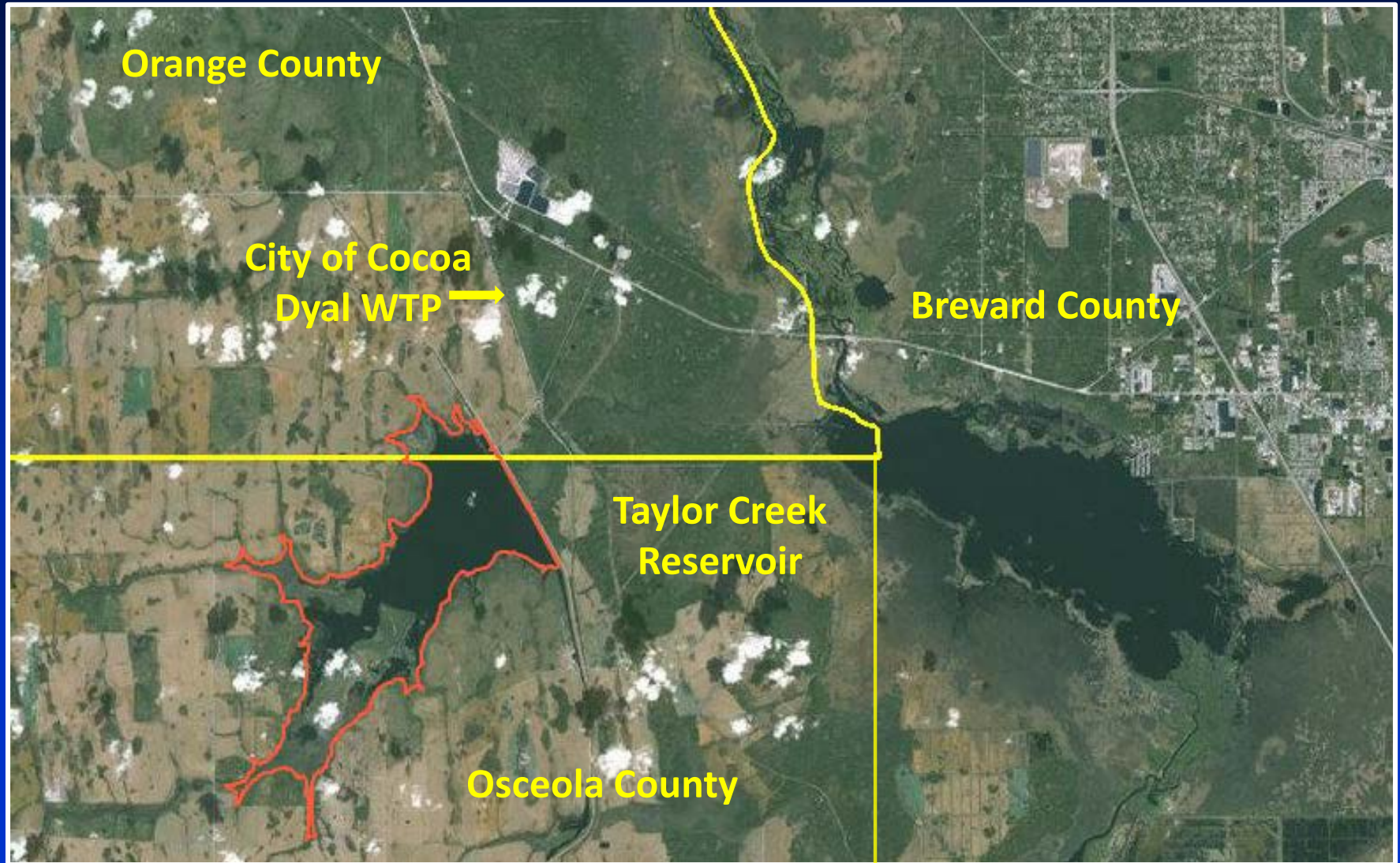


Introduction





Introduction





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History

- OCU has a lengthy history of long-term planning
- Since the mid-1980s OCU has:
 - Implemented conservation programs
 - Developed conservation rate structures
 - Created regional partnerships for:
 - Beneficial uses of reclaimed water
 - Stormwater use at Stanton Energy Center
 - Alternative water supply project

History

- Since 2000, the SJRWMD has maintained:
 - Traditional groundwater will not sustain growth in Central Florida
 - Alternative water sources are needed



History

- Facing future water challenges, OCU focused on:
 - Evaluating water supply options
 - Developing long-term alternatives
 - Looking at integrated water resources



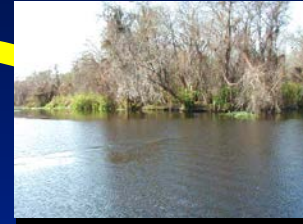


History

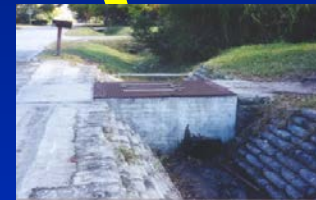
**Reclaimed
Water**



**Surface Water
Supply**



Stormwater



**Aquifer
Recharge**



**Groundwater
Supply**



Conservation





History

- **This integrated approach resulted in:**
 - **Prioritizing expansion of OCU reclaimed system**
 - **Increasing commitment to conservation:**
 - **Full-time staff**
 - **Investment of millions of dollars**
 - **Enforcement**
 - **Aggressive conservation rate structure**
 - **Investing in stormwater reuse**
 - **Developing regional partnerships**
 - **Evaluating alternative water supply options**



History

- **2005 the region facing significant regulatory challenges**
 - **Permit conditions became more restrictive and allocations of water became limited**
 - **SJRWMD and the SFWMD required development of the TCR/SJR project in OCU permits**
 - **Competition for water increased in the region**
 - **Utilities applied for permits to use TCR**

History

- The SJRWMD declared the permits in competition
 - Leading to litigation in 2010
 - Agreeing to mediation in 2011





History

- Utilities involved in mediation
 - Orange County Utilities (OCU)
 - Orlando Utilities Commission (OUC)
 - Toho Water Authority (TWA)
 - East Central Florida Services (ECFS)
 - City of Cocoa (Cocoa)
- Other mediation participants
 - SJRWMD
 - Farmland Reserve, Inc.



History

- Through the mediation process five agreements and other supporting documents were developed





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Benefits

- **The TCR/SJR Project:**
 - Provides collaborative regional option for future water supply
 - Provides for equitable distribution of water
 - Allows for proper long-term planning
 - Meets OCU permit conditions
 - Allows for phased implementation

PHASE 1

- Define and evaluate project
- Develop technical documentation
- Apply for regional permits

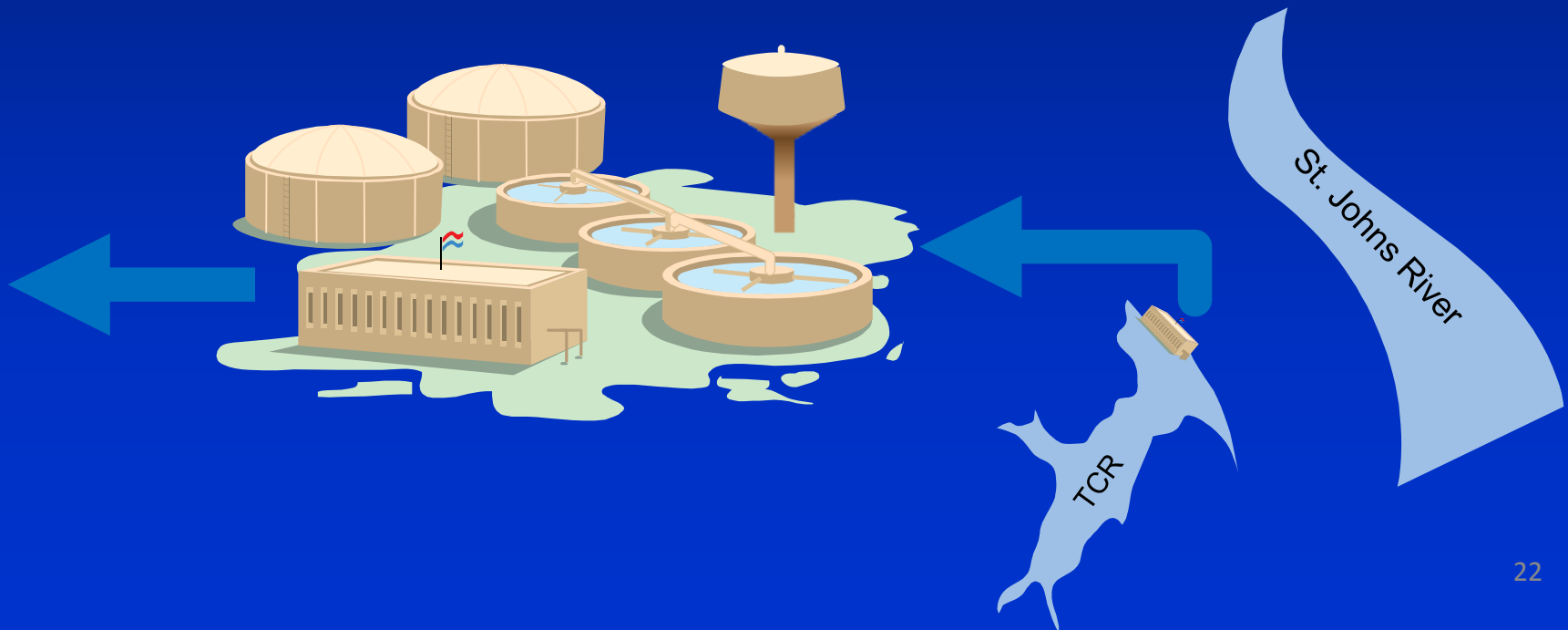


Permitting

Benefits

PHASE 2

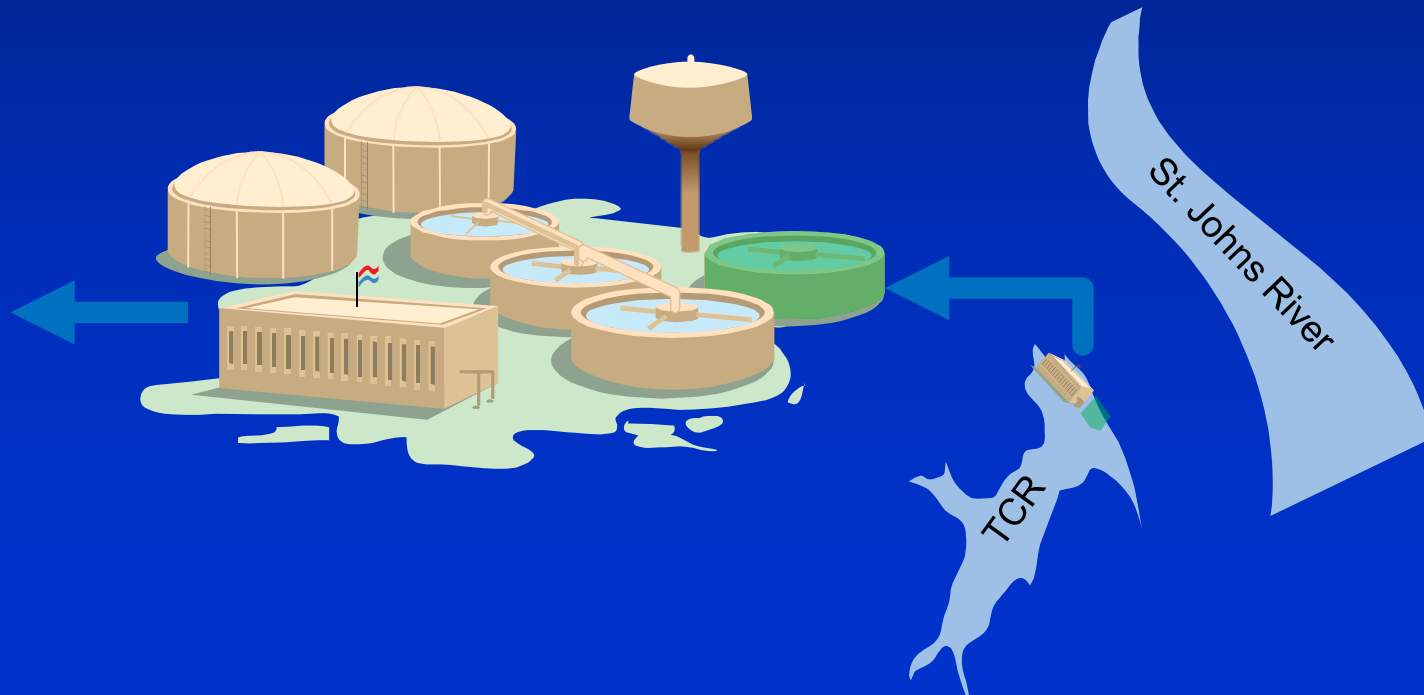
- Wholesale water from Cocoa
- Delays major infrastructure costs



Benefits

PHASE 3

- Expansion of Dyal Plant
- Increase wholesale water from Cocoa
- Further delays major infrastructure costs

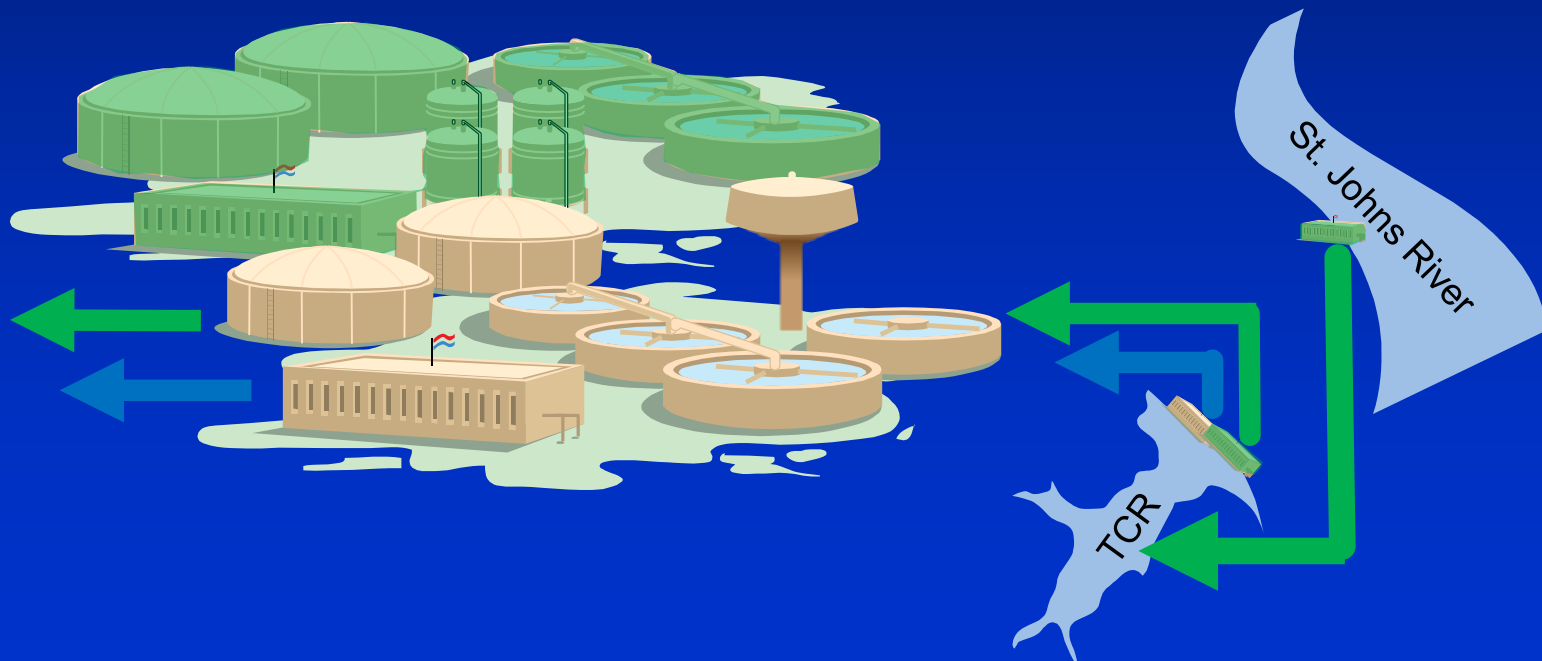




Benefits

PHASE 4

- Expansion of Dyal Plant or construction of new facilities



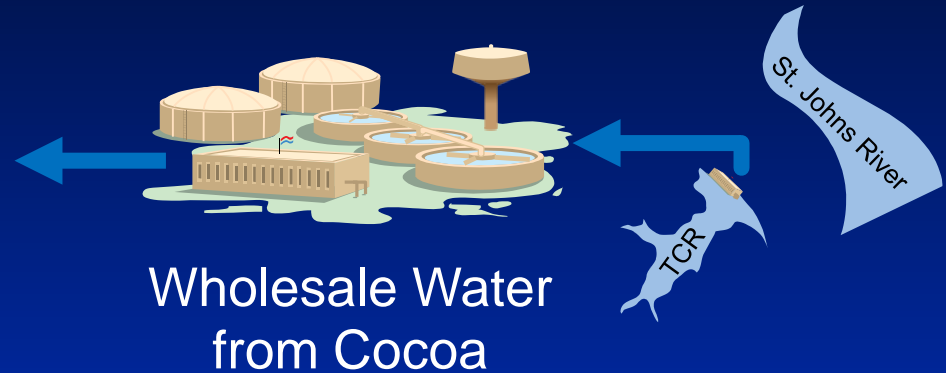


Benefits

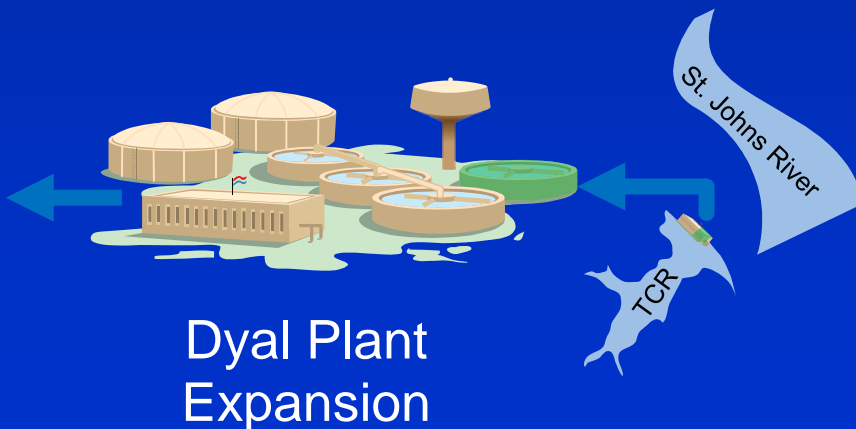
PHASE 1



PHASE 2



PHASE 3



PHASE 4





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Agreements

- **Five agreements**
 - General Implementation Agreement
 - Permitting Agreement
 - Transmission Line Agreement
 - Wholesale Water Supply Contract
 - Land Trust Agreement
- **Settlement letter**



Agreements

- **General Implementation Agreement**
 - Provides overall framework for implementation
 - Phasing
 - Project governance
 - Allotment of water
 - Project administration and management
 - Decision-making committees and processes
 - Identifies key decisions
 - Definition of project failure and termination



Agreements

- Guidelines for permitting, design and construction
 - Property rights and property acquisition
 - Storage fee
 - Specifications for withdrawal, substitution, and assignment
- References other agreements as necessary



Agreements

- **Permitting Agreement**

- Provides for collaborative work to obtain regional permits
- Includes development of technical information and assessments needed to support the permits
- Stipulates cost-share based on water allocation
- Provides conditions for withdrawal



Agreements

Utility	Allocation (MGD)	Percent	Maximum Estimated Cost Share
Cocoa	2.17	6%	\$360,000
OCU	15	45%	\$2,700,000
OUC	5	15%	\$900,000
TWA	1.5	4%	\$240,000
ECFS	10	30%	\$1,800,000
TOTAL	33.67	100%	\$6,000,000



Agreements

- **Transmission Line Agreement**
 - Describes potential routes
 - Establishes governance for project administration
 - Provides framework for design, construction, and operations
 - Establishes process for rates and charges
 - Provides conditions for withdrawal



Agreements

- **Wholesale Water Supply Contract**
 - Describes delivery standards
 - Defines specifications for metering and billing
 - Establishes rate methodology
 - Establishes rate/cost review committee
 - Defines capital contributions
 - Provides conditions for withdrawal



Agreements

- **Land Trust Agreement**
 - Creates land trust for drainage, flow, storage and easement over TCR
 - Easement granted by Farmland Reserve, Inc.
 - Utilities are trust beneficiaries
 - Cocoa is trustee
 - SJRWMD is standby trustee



Agreements

- **Settlement Letter**
 - Required by SJRWMD from all utilities as a condition of settlement
 - SJRWMD v. Farmland Reserve, Inc.
 - Acknowledges support of the settlement terms



Agreements

- **Other supporting or related agreements**
 - **1993 Settlement Agreement Amendment**
 - **Cocoa TCR Easement in Trust**
 - **TCR/SJR Easement**
 - **SJRWMD/FRI Flowage Easement Agreement**



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Requested Action

Approval of:

- 1) Taylor Creek Reservoir/St. Johns River Water Supply Project General Implementation Agreement among City of Cocoa, East Central Florida Service, Inc., Orange County, Orlando Utilities Commission, Tohopekaliga Water Authority and Farmland Reserve, Inc.**
- 2) Taylor Creek Reservoir/St. Johns River Water Supply Project Permitting Agreement among City of Cocoa, East Central Florida Services, Inc., Orlando Utilities Commission, Tohopekaliga Water Authority and Farmland Reserve, Inc.**
- 3) Taylor Creek Reservoir/St. Johns River Water Supply Project Transmission Line Agreement by and between East Central Florida Services, Inc., Orange County, Orlando Utilities Commission, Tohopekaliga Water Authority, City of Cocoa and Farmland Reserve, Inc.**



Requested Action

Approval of:

- 4) Taylor Creek Reservoir/St. Johns River Water Supply Project Wholesale Water Supply Contract by and between City of Cocoa, Orange County, Orlando Utilities Commission, East Central Florida Services, Inc. and Tohopekaliga Water Authority,
- 5) TCR/SJR Project Land Trust Agreement by and between City of Cocoa (Trustee), City of Cocoa (Beneficiary), Orange County, East Central Florida Services, Inc., Orlando Utilities Commission, Tohopekaliga Water Authority and St. Johns River Water Management District, and
- 6) Orange County letter to SJRWMD Governing Board Chair in support of the settlement of St. Johns River Water Management District v. Farmland Reserve, Inc.

And authorize the County Attorney or his designee to replace the unsigned agreements in Exhibits E, F, G, and H of the above-referenced General Implementation Agreement with fully executed agreements.