CIB BIC

cib-bic.ca

Canada Infrastructure Bank

Infrastructure for Housing Initiative

Alex Ryan, Director, Investments

CIB BIC

Invest in impact infrastructure which delivers public-good.

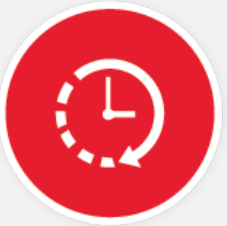
Climate action, Indigenous participation, connected communities, economic growth

Address financing gaps to help projects advance.

With flexible financing terms and patient risk capital, we unlock critical infrastructure projects.

Grow innovative partnerships

Government, Indigenous, private / institutional partners in revenue-generating infrastructure and we get paid back.



More infrastructure built sooner.

Crowd-in private financing towards projects in the public interest – with less reliance on the taxpayer for grant funding.

Priority Sectors

Public Transit

Long-term sector target $5B

ZEBs, LRTs, BRTs, ferries, subways, commuter rail, transit-oriented development

Clean Power

Long-term sector target $10B

Zero-emission generation, small modular reactors, renewables, district energy, storage, interties, transmission

Green Infrastructure

Long-term sector target $10B

Energy efficient retrofits, industrial retrofits, water, wastewater, carbon capture, utilization and storage, clean fuels, hydrogen, zero emission vehicle charging

Broadband

Long-term sector target $3B

Unserved and underserved community broadband connectivity

Trade & Transportation

Long-term sector target $5B

Agricultural infrastructure, ports, freight, highways, roads, bridges, tunnels, inter-regional and passenger rail, critical minerals

Indigenous Infrastructure

At least $1B for projects in partnership with and for the benefit of Indigenous Peoples

Project Acceleration

$500M for project development and early works to shorten critical paths to construction

Project Partnerships across Canada

Numbers = projects per province

Note: Figures based on Financial Report Q1 2024-2025 with pending project announcements in cooperation with our partners.

Partnerships

73

CIB investment:

$12.9B

Total capital value:

$35.5B

The CIB's Mandates in Water and Housing

Mandate and Direction

Water

- In 2017, the Minister of Infrastructure and Housing outlined in the Statement of Priorities and Accountabilities letter the CIB's role in supporting the development of water infrastructure that is clean and safe. The Minister also encouraged the CIB to explore supporting smaller or bundled municipal projects that may lack the scale to attract investors independently.
- In response, the CIB' developed a **Water Wastewater Initiative** to invest in water and wastewater assets across Canada, with the goal of delivering clean, safe, and sustainable water systems. This initiative, focused on water and wastewater assets only, ensures that infrastructure supports existing and growing populations, remains resilient to climate change and fosters economic growth.

Housing

- In October 2023, the Minister delivered to the CIB an updated SPA letter emphasizing the need for the CIB to "do more" in addressing housing affordability issues across Canada by continuing to invest in infrastructure that enables housing.
- In response, the CIB launched the **Infrastructure for Housing Initiative** in early 2024 focusing on investing in enabling infrastructure, in all CIB-approved sectors, to expand capacity and support an increased housing supply across the country.

The Challenge and Opportunity

Challenge

- Municipalities often face challenges such as access to capital, access to private investment, costs/ratepayer affordability, and revenue generation risks, all of which can slow infrastructure development and limit growth potential.

Opportunity

- Through both the IHI and WWI, the CIB can provide financing alongside innovative financing solutions to incentivize municipalities to undertake ambitious projects that expand infrastructure and unlock new housing developments.
- By providing revenue-backed debt, the CIB enables municipalities to leverage growing revenue streams to fund these critical projects. Additionally, the CIB ties repayments to growth, sharing in the risk of housing expansion alongside the municipality or project developer, thus fostering sustainable development and addressing infrastructure needs across Canada.

IHI Assets Classes

- Eligible infrastructure assets include both “net-new large-scale” as well as “last-mile” infrastructure identified by a Muni as necessary to their plans for enabling new residential housing development.
- Infrastructure should be included in one of the CIB’s existing priority sectors:

WATER
Water, wastewater, stormwater and conveyance

LOCAL CIVIL WORKS
Roads, bridges and earthworks

LOCAL TRANSIT
Stations, rail

POWER
District energy, electricity distribution, storage

CIB investment in revenue-supported municipal infrastructure

What does IHI Offer?

A loan from the CIB alongside a private lender to pay for the cost of the enabling infrastructure that unlocks housing. The loan product would share in risk of growth materializing by pricing-to-growth and being repaid through dedicated revenue streams.

- ✓ The blended interest rate will be targeted to the Government of Canada's borrowing rate, offering lower the borrowing costs to all Munis
- ✓ The CIB will share in the risk relating to the timing of growth by having its payments grow only as the community growth and housing materializes

How does this accelerate housing development?

- ✓ Allows Munis to prioritize building enabling infrastructure without delaying other funding priorities
- ✓ Enables Munis to build infrastructure in advance of growth, while reducing the required rate/tax increases if growth fails to materialize
- ✓ Better access to credit and lower rates for smaller Munis, without access to capital markets or a provincial borrowing program
- ✓ For Munis with wholly-owned subsidiary corporations (development or utility), this financing could be off-balance sheet

BRANDON AND RED-SEINE-RAT WATER AND WASTEWATER INFRASTRUCTURE

Up to $140 million
(Investment Commitment)

City of Brandon

We are excited to partner with the Canada Infrastructure Bank, Infrastructure Canada, the Province of Manitoba, as well as our fellow municipal Red-Seine-Rat (RSR) partners on these critical water and wastewater infrastructure projects. This investment of $140 million will not only modernize our water treatment facilities and wastewater systems, but also pave the way for sustainable growth in our communities for generations to come.

Jeff Fawcett, Mayor of the City of Brandon

- Contributes to communities' sustainable growth through investments in water infrastructure
- Increased water capacity supports future developments of approximately 15,000 new housing units
- First investment under the CIB's Infrastructure for Housing Initiative
- New water and wastewater infrastructure will support cleaner water for the equivalent of approximately 78,000 housing units.

Do you have infrastructure projects we can help to accelerate?

Thank you

Contact us at investments@cib-bic.ca

LinkedIn | Twitter/cib_en | Twitter/bic_fra

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CITY OF BRANDON WATER TREATMENT FACILITY UPGRADE

PROJECT OVERVIEW

FINANCING WATER & WASTEWATER PROJECTS – CANADA INFRASTRUCTURE BANK

ALEXIA STANGHERLIN, DIRECTOR OF UTILITIES, CITY OF BRANDON

City of BRANDON

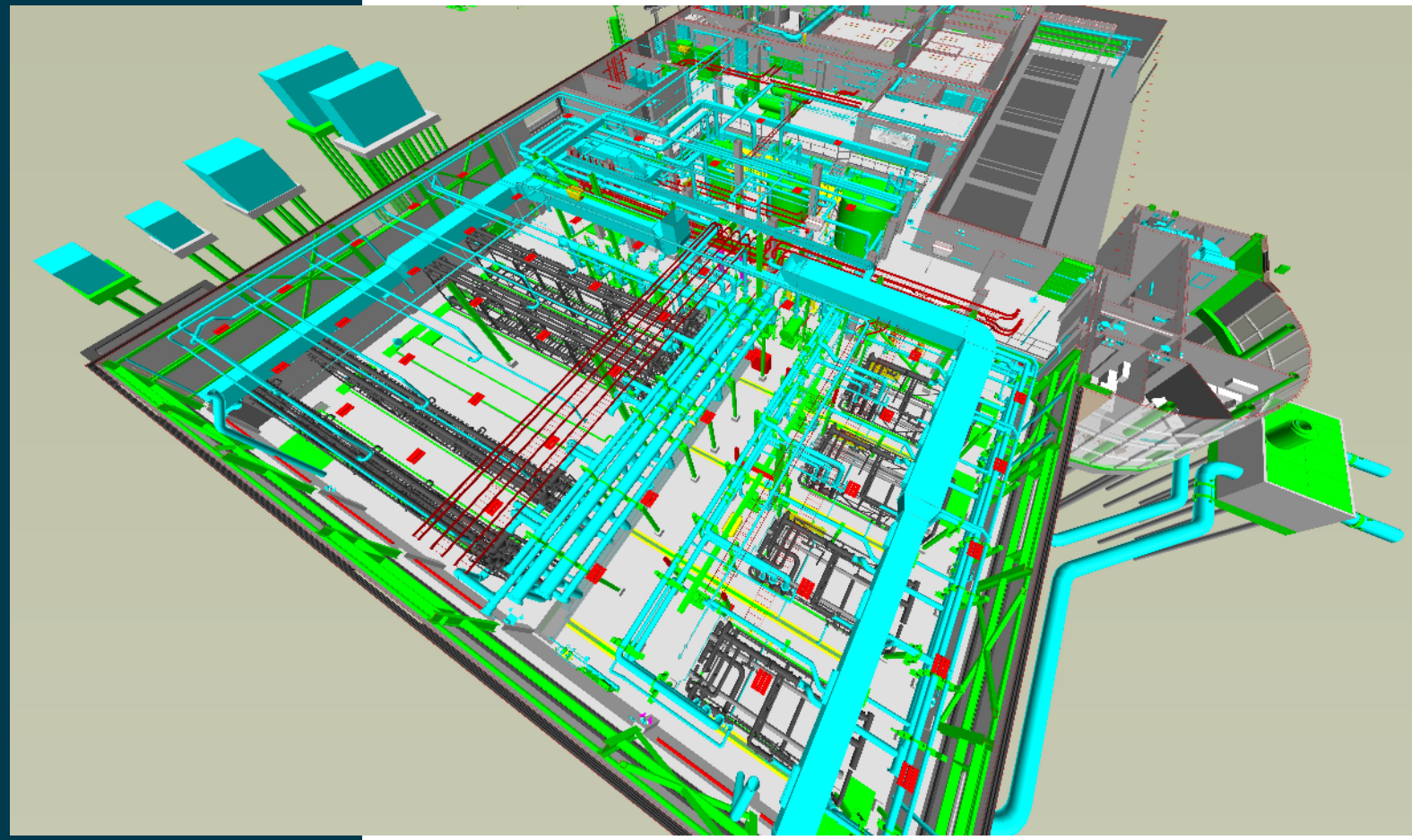
Jacobs

CWWA 2024

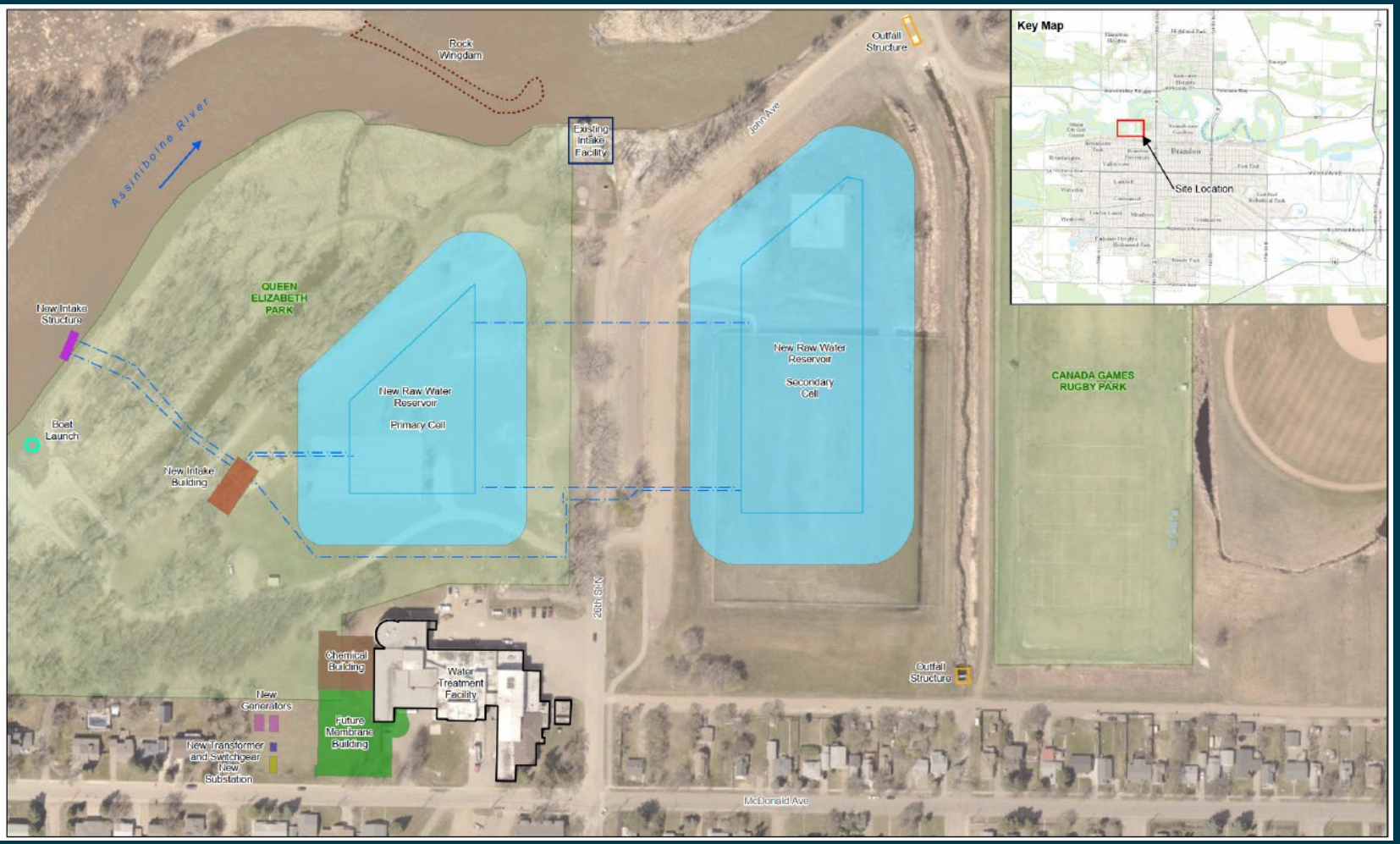
Introduction

VISION:

"The expansion and upgrade of the Brandon Water Treatment Facility will provide safe, high quality drinking water that accommodates current and future regulatory requirements and growth, while maintaining practical and reliable operations in a facility trusted by the public and recognized as a success"



Project Overview



Current

- Population: 51,318
- Tech: Lime Softening treatment
- ADD: 22 MLD

Design Horizon (2048)

- Population: 60,503
- Tech: Current, blended with UF/NF dual-membrane system
- Future ADD: 29 MLD

Key Drivers - Objectives

- ✓ Consolidate storage treatment chemicals in a centralized new building
- ✓ Replace gaseous chlorine as disinfection chemical
- ✓ Allow for future corrosion control mitigation
- Address water quality issues (ex. Disinfection by-products)
- Address projected future water demand to support growth
- Upgrade/modernize existing Water Treatment Facility
- Implement flood and drought protection measures for River Intake

Key Drivers - Timelines

2012

Master Plan

Initiation of overall Water Treatment assessment that set the City on a path to the current Upgrade & Expansion

2017

Design Initiation

With CWWF Funding announced, design of the Water Treatment Facility Upgrade began

2019-2022

Chemical Building Construction & Piloting

With CWWF backing, the first phase of construction began: a dedicated Chemical Building, sized to accommodate future treatment chemicals.
Dual membrane system proof pilot operational on site

2022

ICIP Funding & CIB Possibilities

Additional funding announced through ICIP, allowing for next tender preparation. Possible CIB financing partnership explored

2024

Membrane Building

Second phase of construction currently out for Tender

2025-2026

Next Phases

Design work on Filter Upgrades, Intake & Settling Ponds, Remaining Facility Upgrades to be completed. Construction to follow

2028

Commissioning & Project Completion

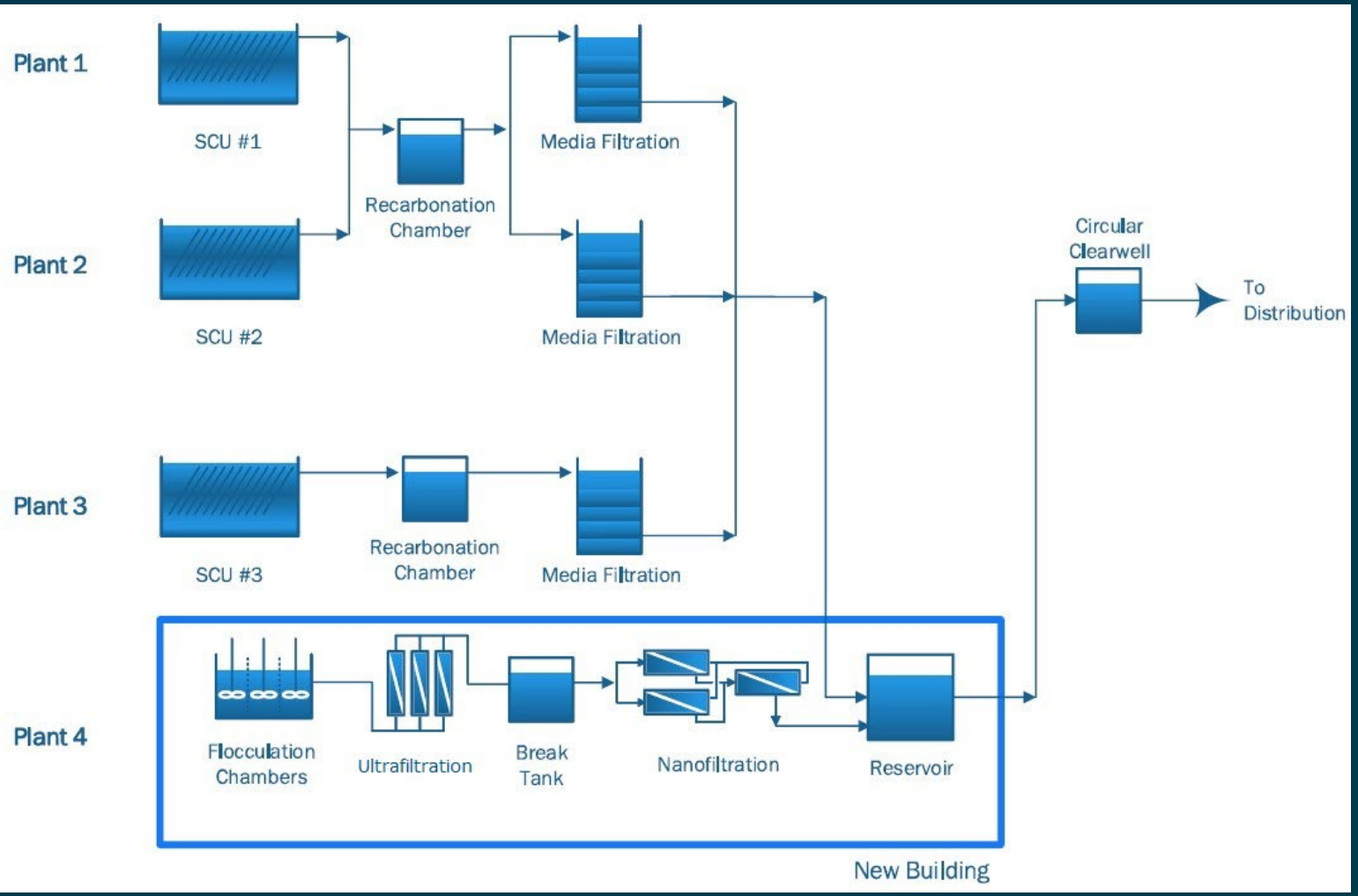
With varying construction scopes, all phases are scheduled to come be in operation by 2028

2029+

O&M

Ongoing City-led operation & maintenance

Technical Overview



- Extend useful life of existing facility
  - Treatment plants 1-3
  - Reuse of low lift and high lift pump stations
- Add a new treatment process to address organic loading in source water
  - Treatability study and proof pilot aided in decision making for pressurized dual-membrane system suitability
- Finished water will be a blend of conventional and membrane treated water

Technical Overview

- River intake resiliency and raw water storage addition
  - Settling ponds will buffer for extreme weather conditions

- Existing facility and equipment will see improvements
  - Start with upgrading and standardizing filter underdrains

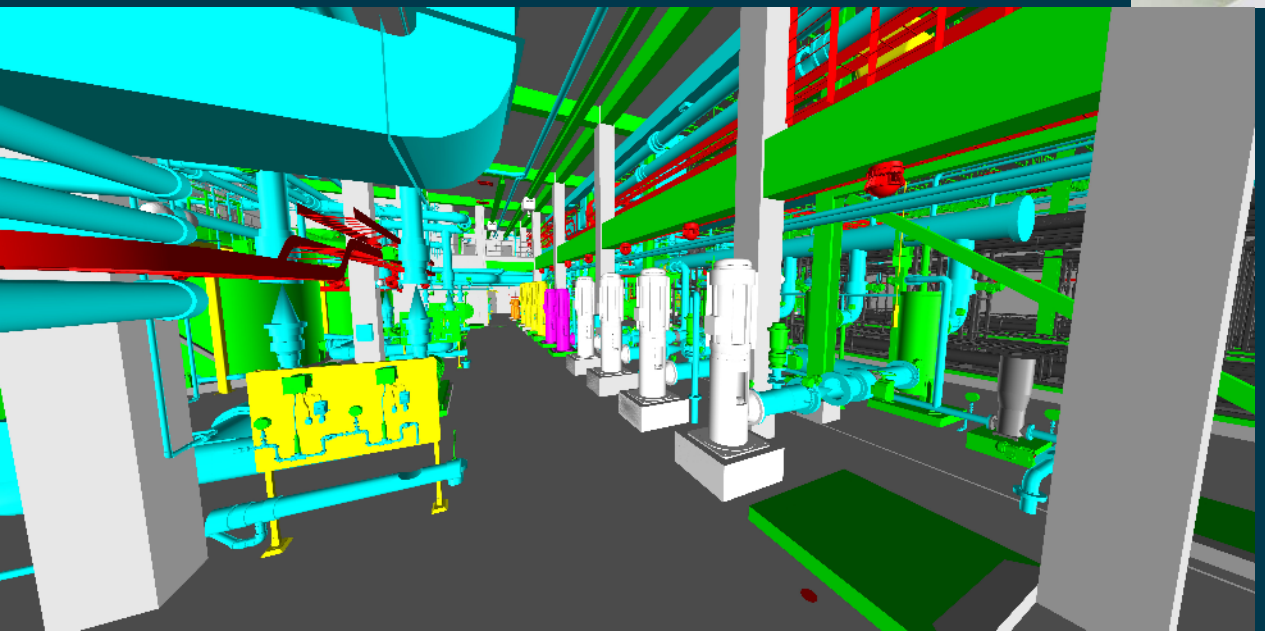
Highlights

Upcoming construction project:
Membrane Building

- New power supply and two, 1.5MW generators
- New membrane treatment facility, including offices and meeting room

Highlights

- Exterior raw water inlet piping
- Tankage: floc, break, CIP
- Modular, pressurized UF/NF membrane skids



- Additional chemical skids
- 100+ new pumps:
- Connection to existing clearwell
- Additional UV disinfection
- SCADA automation & vendor collaboration

THANK YOU

Jacobs Challenging today. Reinventing tomorrow.

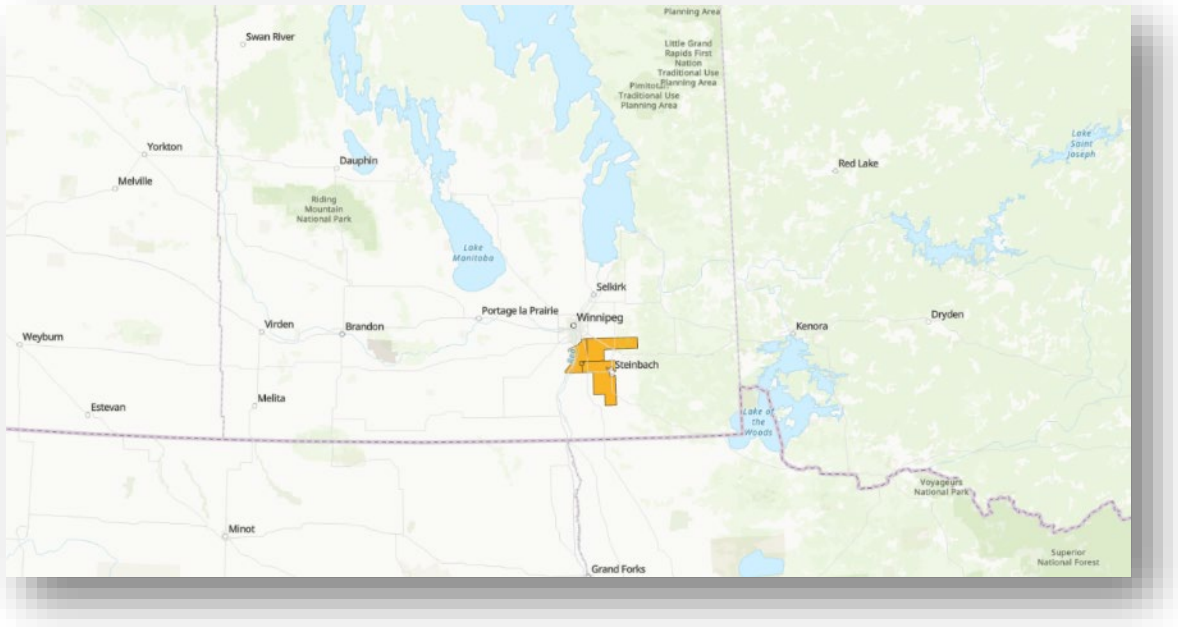
Red-Seine-Rat Wastewater Cooperative

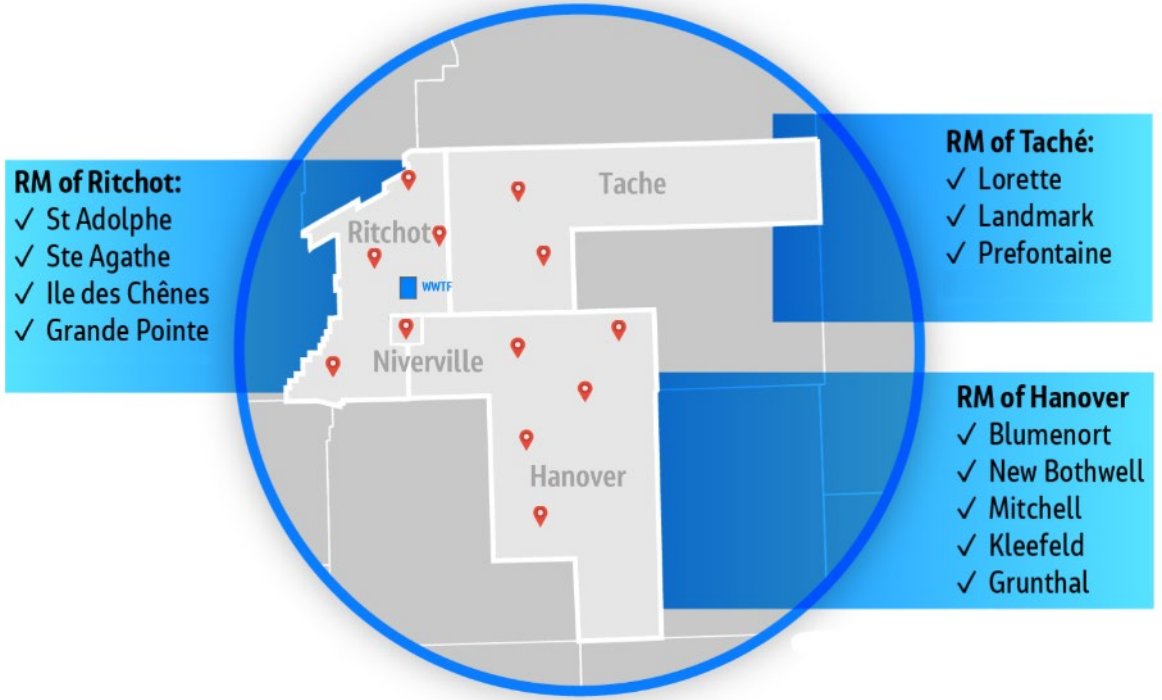
Wastewater Treatment Facility and Regional Conveyance Project Overview – November 2024

Stephen Godon, Municipal Engineer, Jacobs

Project Overview

- The Red-Seine-Rat (RSR) Wastewater Cooperative is a joint initiative between the Rural Municipalities of Hanover, Ritchot, and Tache, and the Town of Niverville.
- The Cooperative was formed in 2020, with a common goal to create a regional wastewater collection system and mechanical wastewater treatment facility (WWTF)





Project Objectives

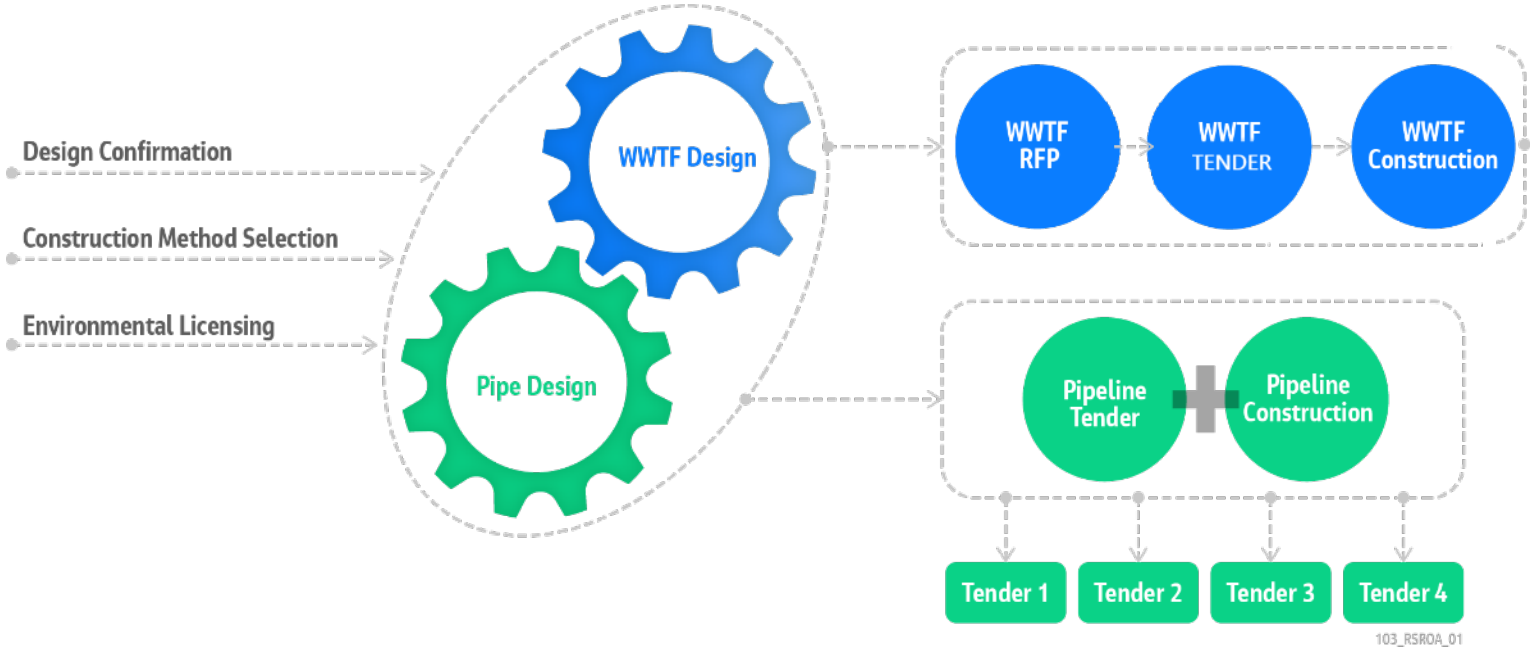
- Provide a treatment system that will reliably **meet regulatory requirements**
- Provide an **expandable regional system** that can allow operational flexibility to **meet future needs**
  - Population Growth
  - Industry
  - Regulatory
  - Additional Communities
- **Minimize interruption to current operations**, consolidate for efficiency once RSRWC is operational
- Provide a **cost-efficient facility**, with economical whole life cycle costs that do not overburden rate payers

Project Vision Statement

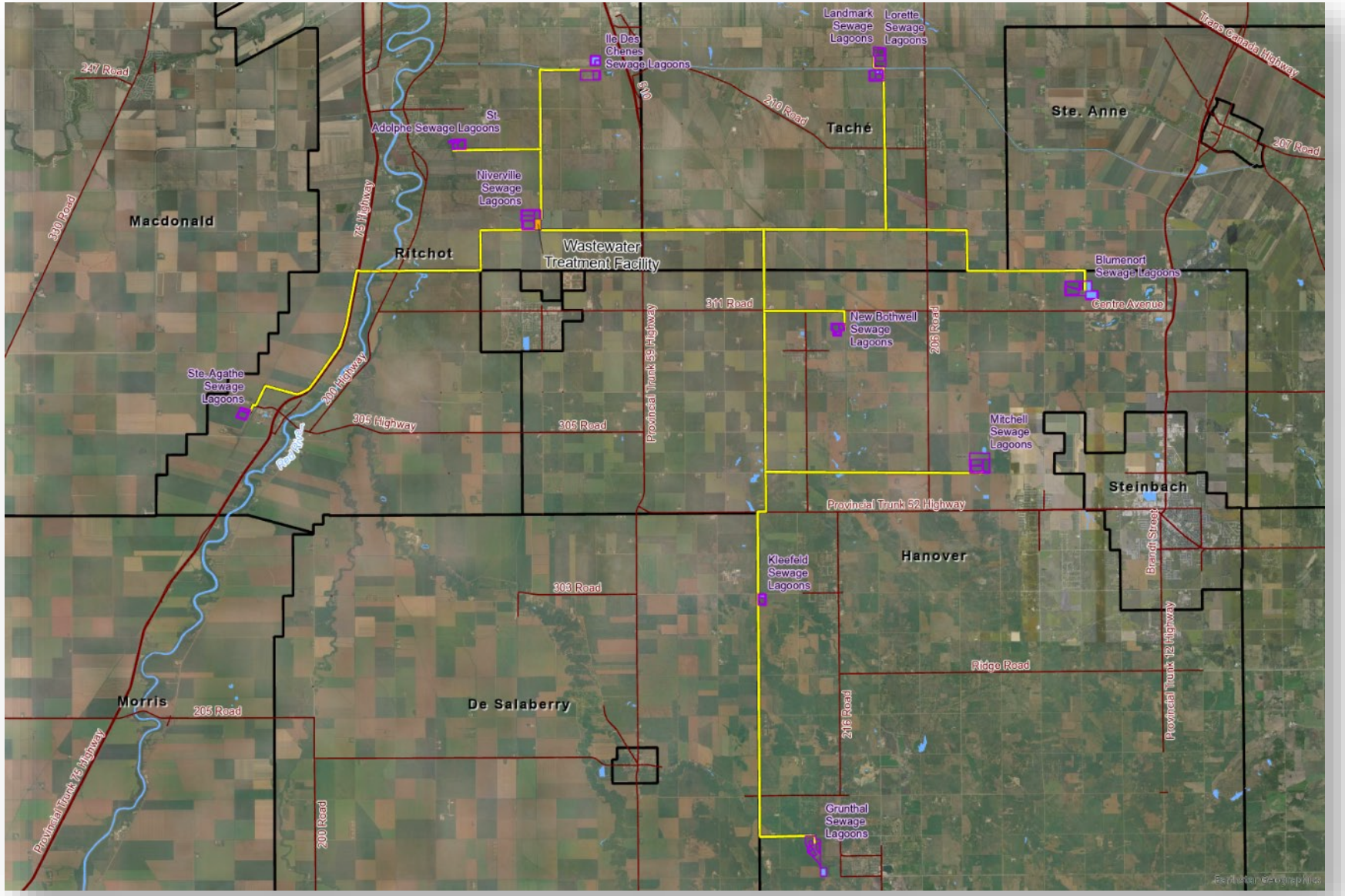
"Construct a WWTF and pipeline network that cost effectively meets growth and regulatory requirements of the region and sets an example for collaboration on a regional scale infrastructure project"

Project Delivery Structure

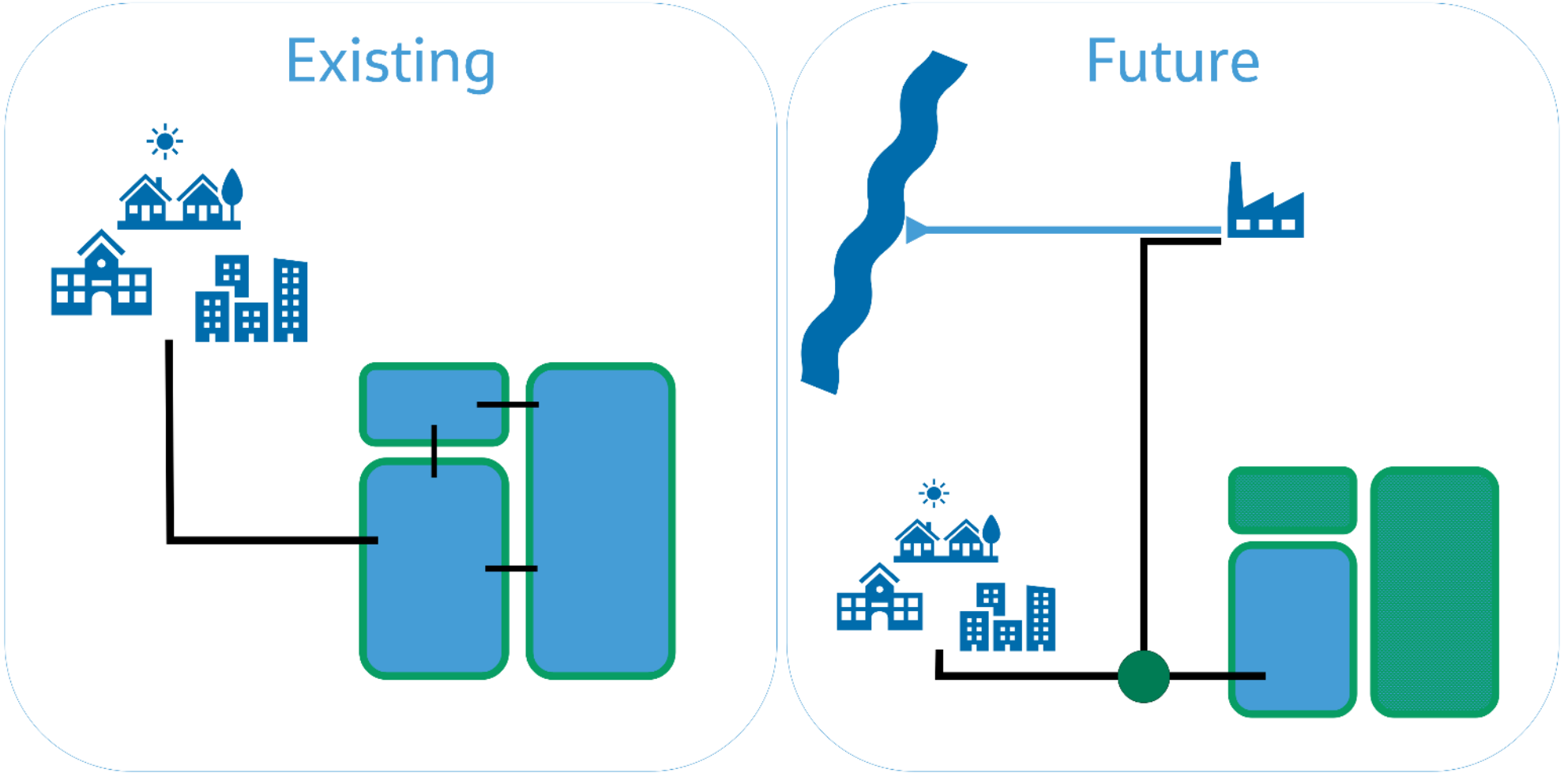
- Traditional Design Bid Build
- Wastewater Treatment Facility
  - 19 MLD (2040)
  - Membrane Bioreactors
- Regional Pipelines
  - 11 community lift stations
  - 100+ Km of forcemains
  - 3 hauler receiving stations



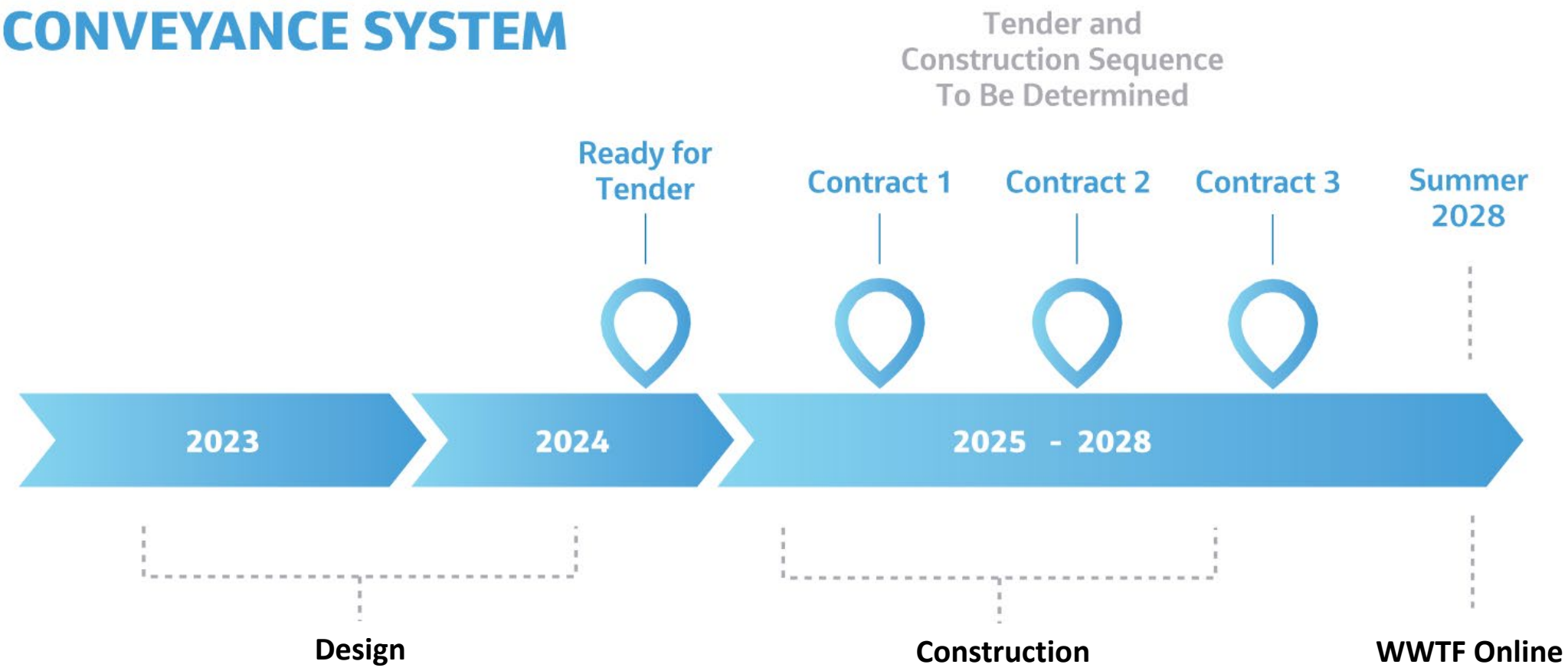
Regional Conveyance System



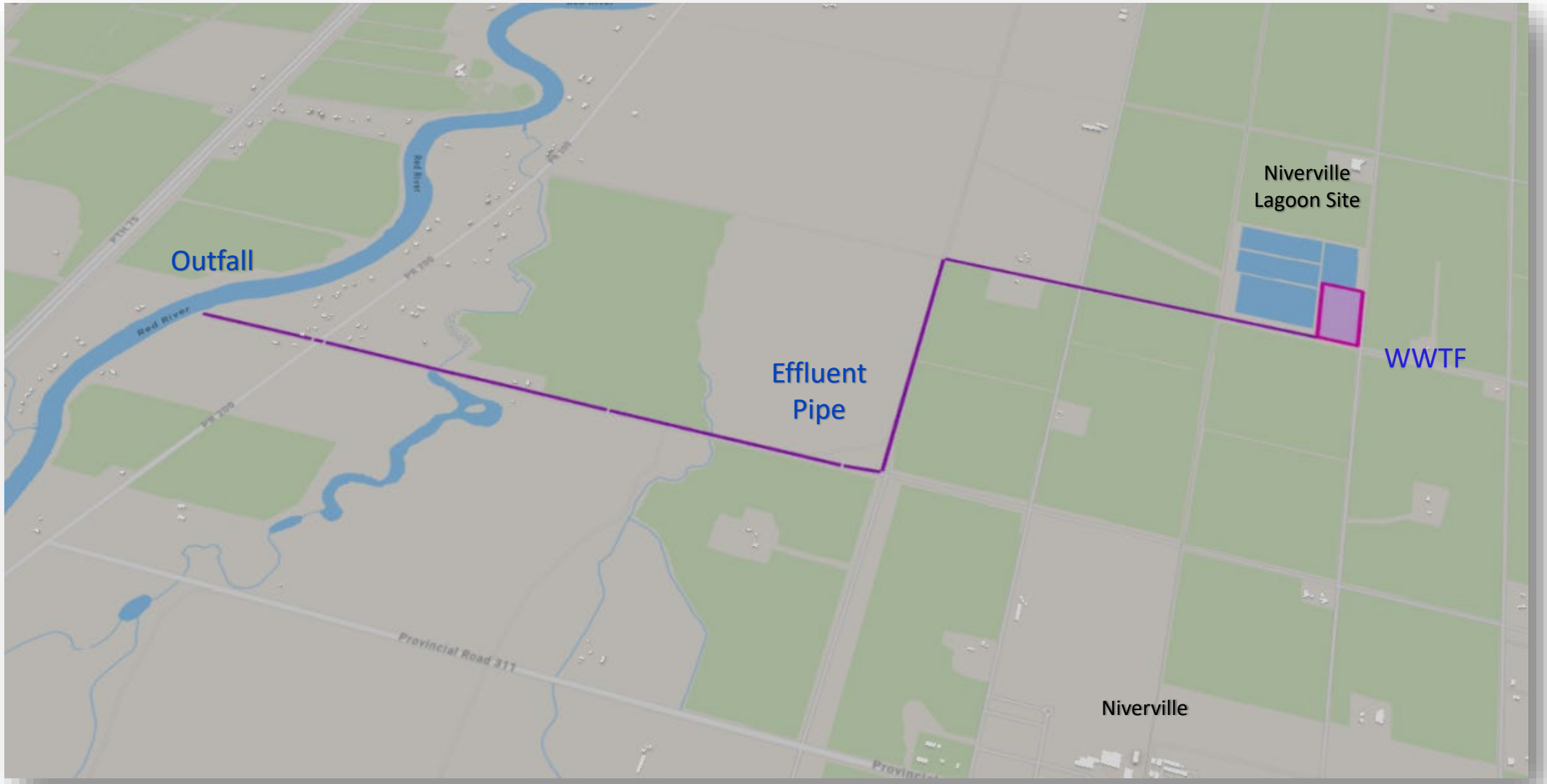
Regional Conveyance System – Lagoon Sites



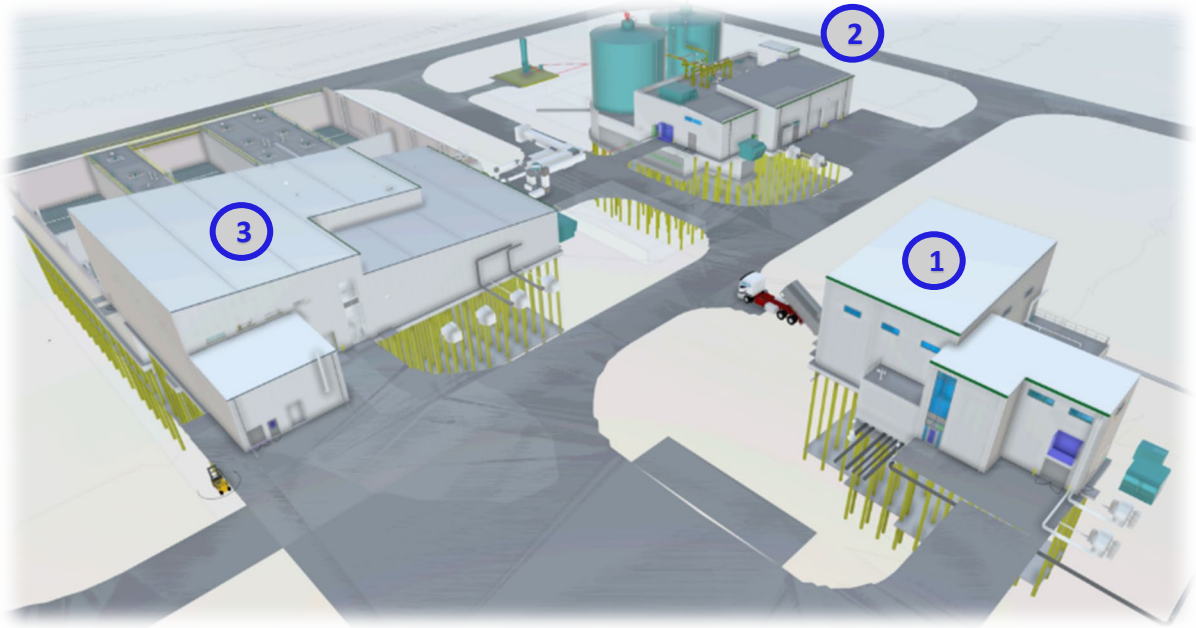
Project Schedule

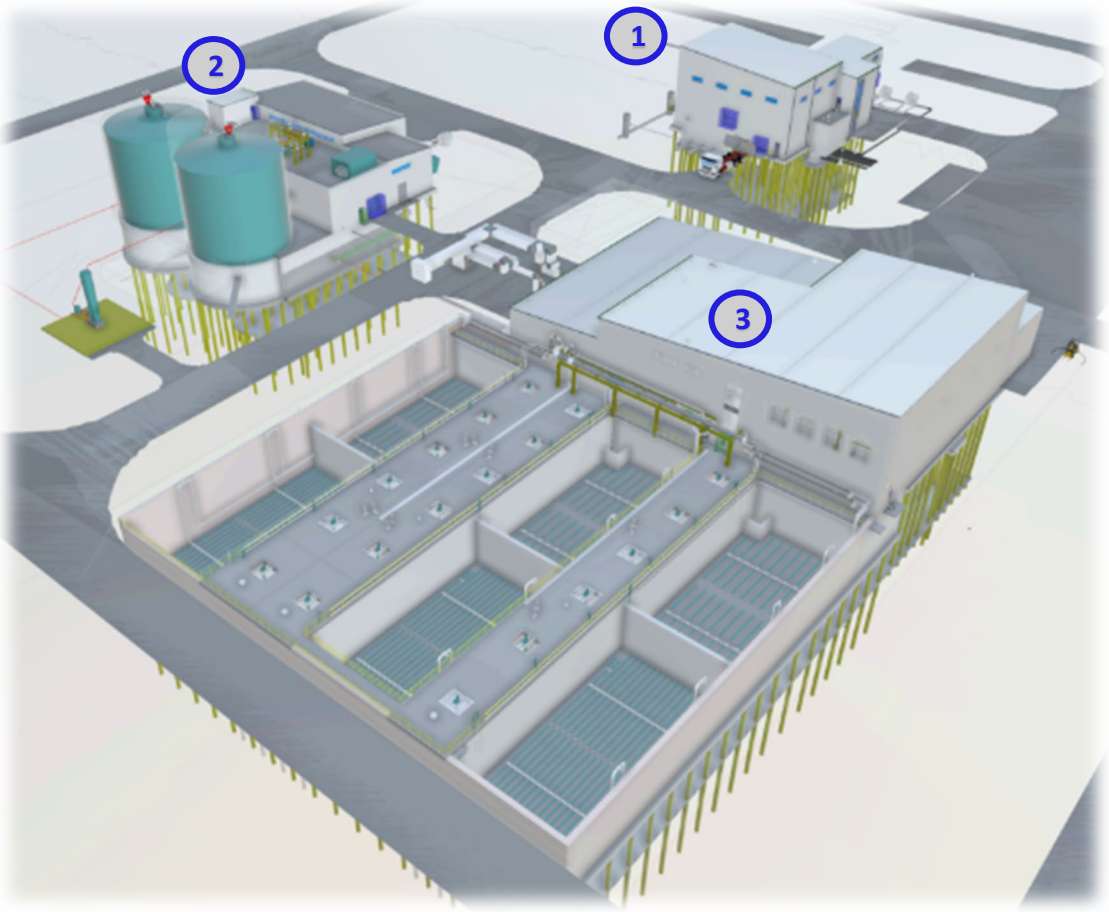


Wastewater Treatment Facility



RSRWC – WWTF Site Overview



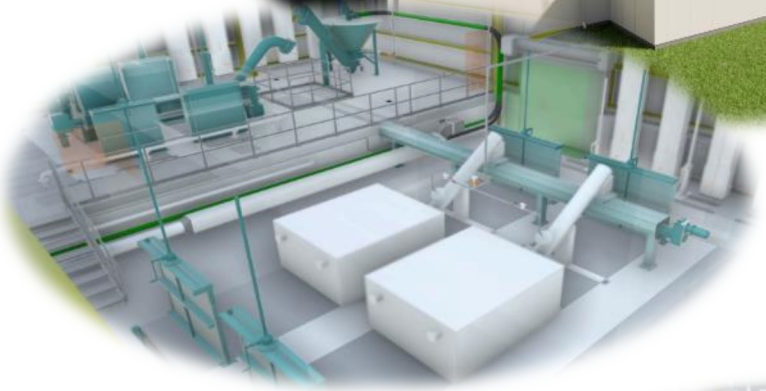


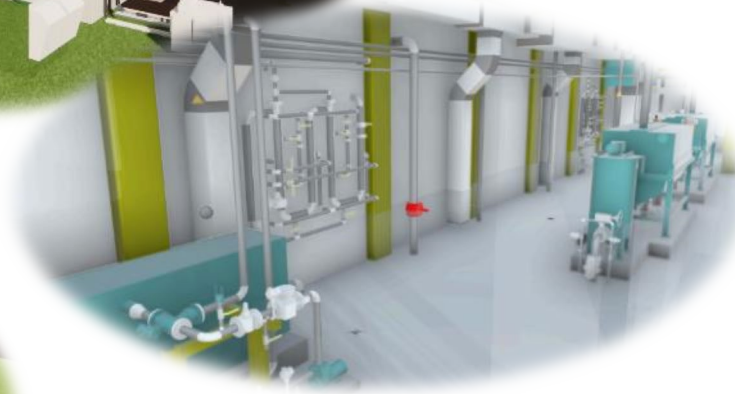
1. Headworks
2. Solids Handling
3. Bioreactors
   Membranes
   Administration

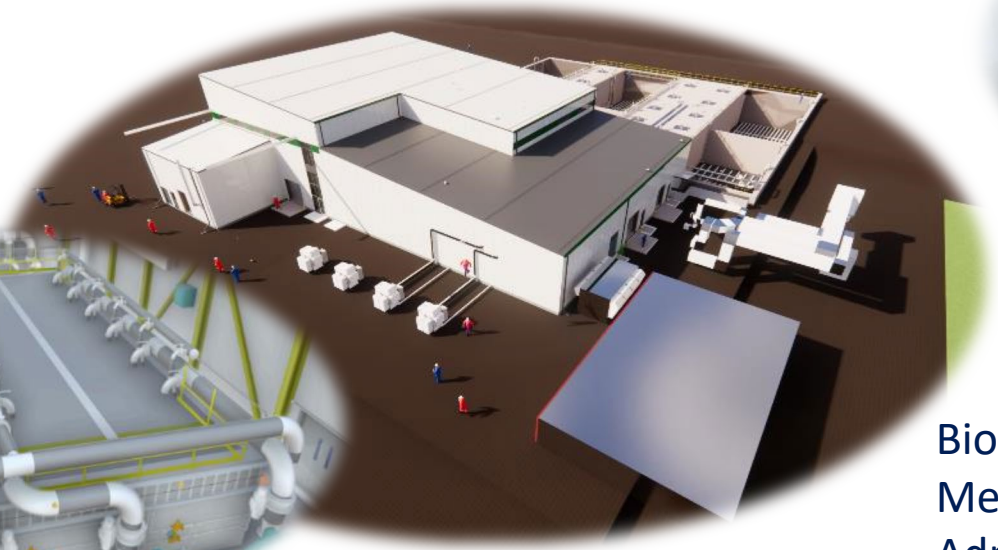
RSRWC – WWTF Imagery

Headworks

Solids Handling

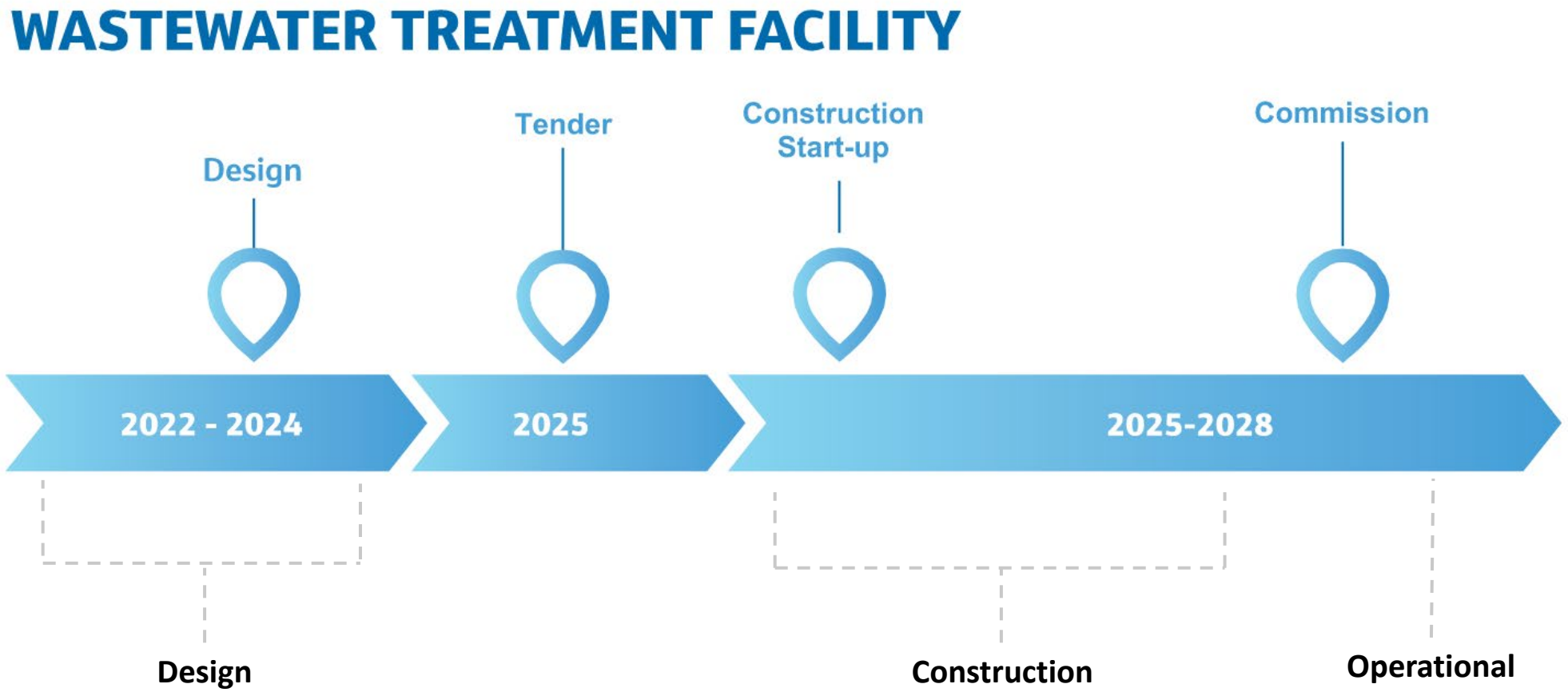






Bioreactors
Membranes
Administration

Project Schedule



End

Thank you

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Reinventing tomorrow.

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Important