



RFP No. 779-2021A

Progressive Design Build of NEWPCC Upgrade: Biosolids Facilities

Step 1 Virtual Meeting

NORTH END WATER POLLUTION CONTROL CENTRE
CITY OF WINNIPEG
2230 MAIN ST.

Treaty Acknowledgement

Winnipeg is located within Treaty No. 1 Territory, the traditional lands of the Anishinabe (Ojibway), Ininew (Cree), Oji-Cree, Dene, and Dakota, and is the Birthplace of the Métis Nation and the Heart of the Métis Nation Homeland.

Winnipeg's drinking water comes from Treaty Three Territory.



Outline

1. Project Overview
2. Procurement Overview
3. Technical Overview
4. Q&A



*Information provided for reference only. RFP and associated Addenda prevail.



Project Overview

Winnipeg

- Capital of Manitoba
- Near geographical centre of North America
- 2023 population: 841,000
- Key industries include transportation, finance, manufacturing, and agriculture





Project Overview

North End Sewage Treatment Plant, also known as the **North End Water Pollution Control Centre (NEWPCC)**:

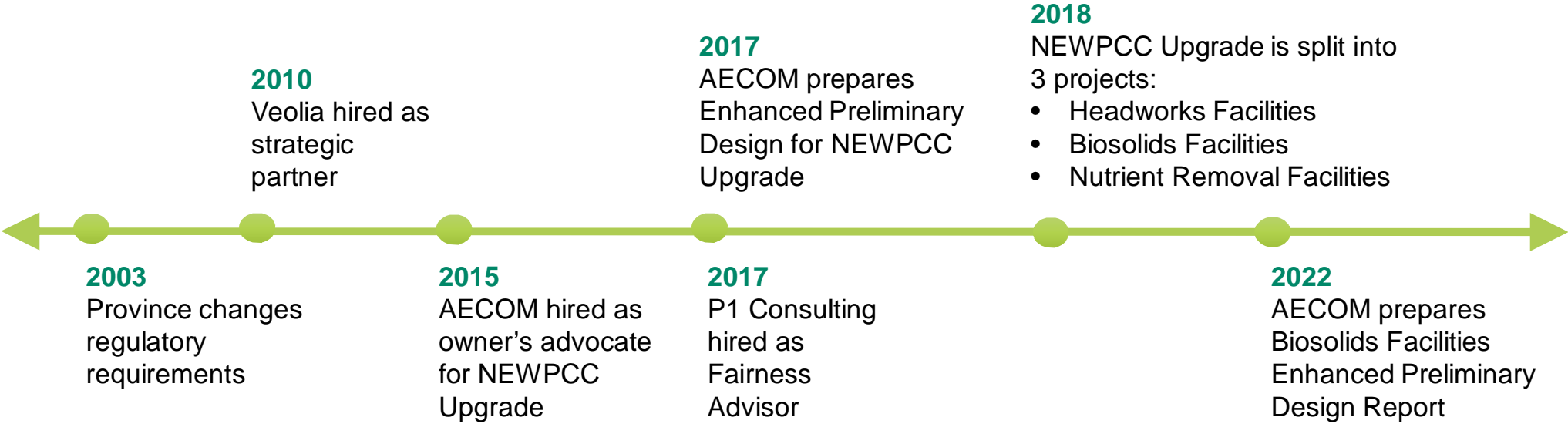
- Oldest and largest sewage treatment plant in Winnipeg
- Treats 70% of the City's wastewater
- Treats 100% of the City's biosolids



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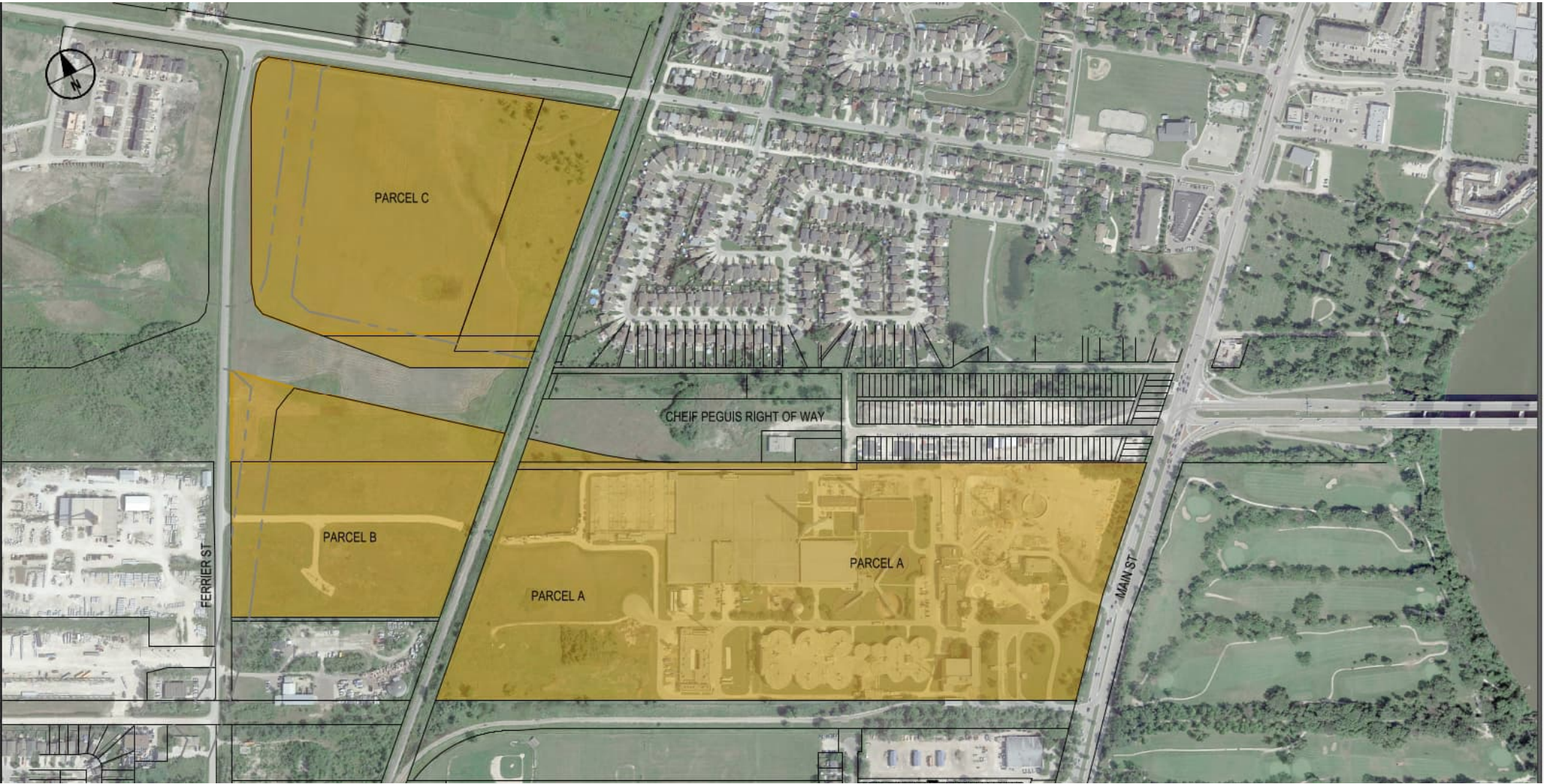
Project Overview

The City is upgrading NEWPCC to accommodate future flows and provide enhanced treatment to meet regulatory requirements



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Project Overview

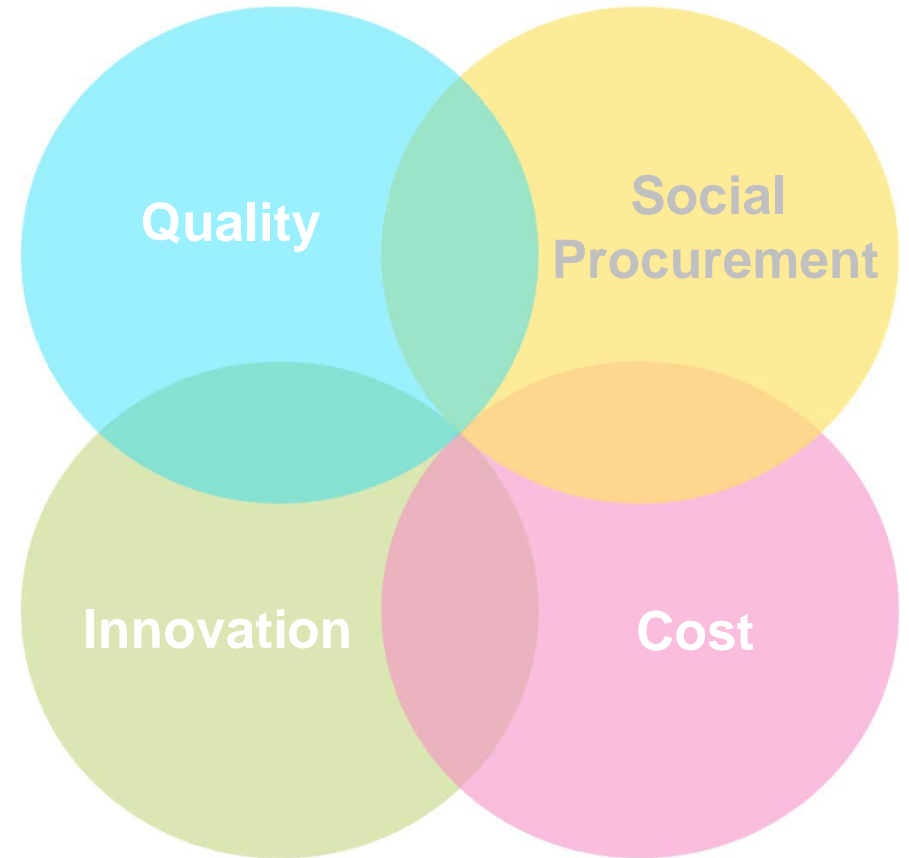


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Procurement Overview

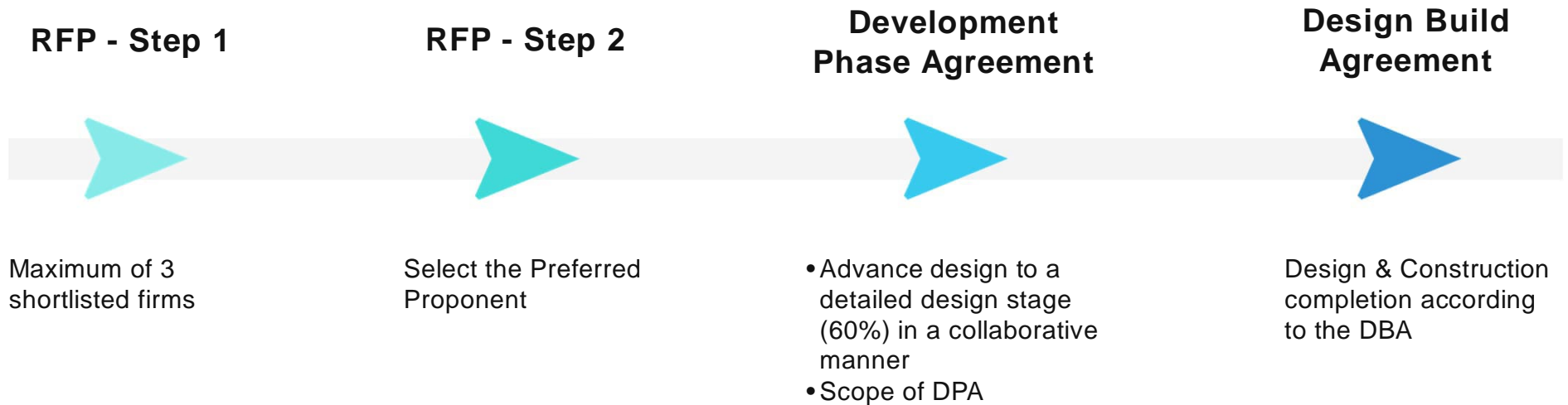
City Objectives

- Fair and competitive selection process
- Project on schedule
- Innovative technical approach (value for public money)
- Project designed and built in efficient and quality manner
- To have a positive social and indigenous impact throughout the supply chain



Procurement Overview

PROGRESSIVE DESIGN BUILD



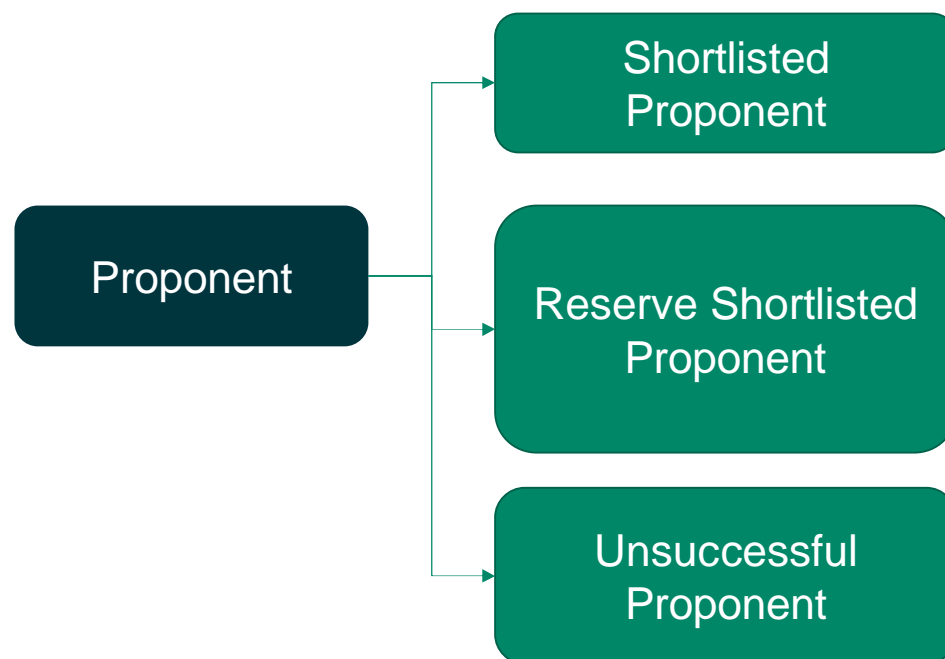
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Procurement Overview

RFP – Step 1

Each firm that submits a Step 1 Submissions is referred to as a Proponent

- The City will evaluate Step 1 Submissions in accordance with RFP Schedule 2 – Step 1
- The City will shortlist up to 3 proponents for RFP – Step 2 and they will be called Shortlisted Proponents.
- The City may identify the next highest-ranking scores after the Shortlisted Proponents as Reserve Shortlisted Proponents



Procurement Overview

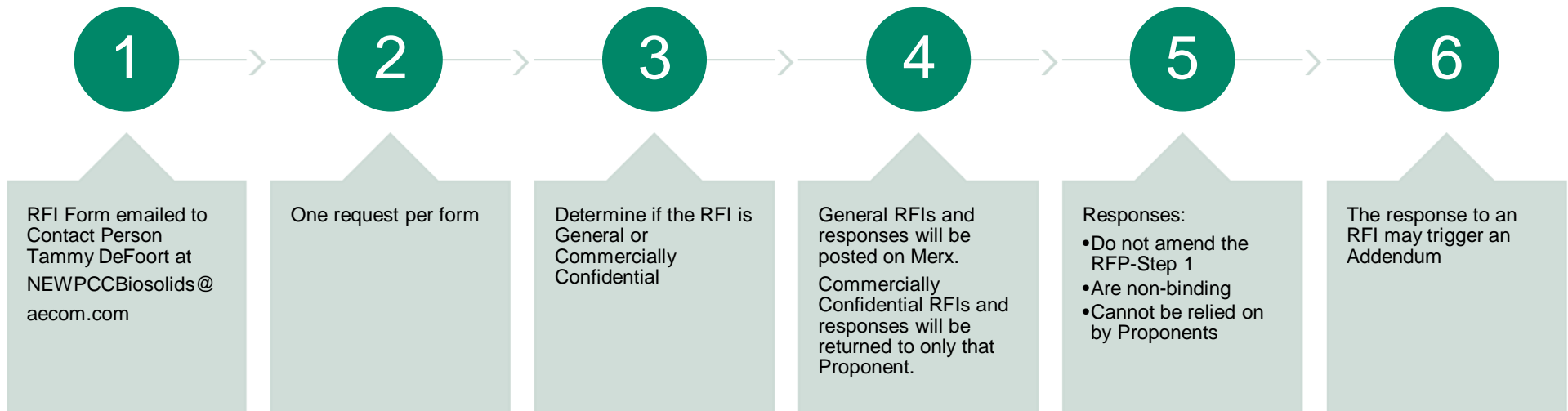
Event	Date / Time
Release of RFP Step 1	July 14, 2023
Step 1 Virtual Meeting	August 16, 2023
Last Day for Proponents to submit RFIs	August 30, 2023
Last day for City to issue addenda & responses to RFIs	September 07, 2023
Step 1 Submission Deadline (12:00 noon Wpg time)	September 12, 2023
Notification of Shortlisted Proponents & RFP – Step 2 Issuance Target Date	October 03, 2023
Execution of the DPA Target Date	April 2024
Execution of the Design Build Agreement Target Date	October 2025



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Procurement Overview

RFI Procedure for RFP - Step 1



Procurement Overview

September 2023

SUNDAY	MONDAY	TUESDAY	WEDNES	THURSDA	FRIDAY	SATURDA
27	28	29	30	31	1	2
3	4 Labor Day	5	6	7 Deadline	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

RFP – Step 1

Addenda are the only method to amend the RFP – Step 1

- Current Addenda deadline is September 7, 2023
- City may issue at any time prior to Submission Deadline
 - If City issues Addenda after September 7, 2023, the Submission Deadline will be extended



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Procurement Overview

RFP- Step 1 Process

Addenda will be posted on Merx Website

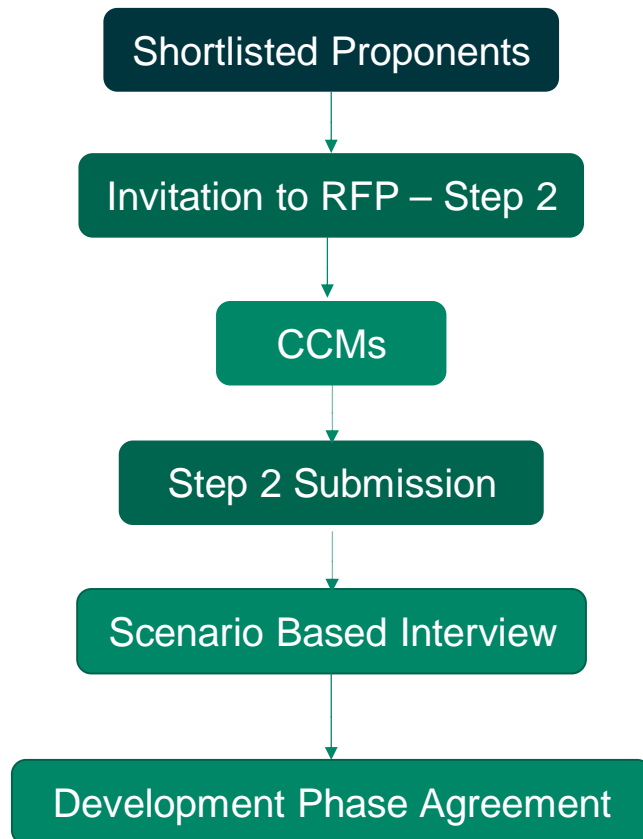
- Proponents advised to check site regularly
- Proponents should acknowledge each Addendum on Form A-1 Master Step 1 Submission Form

- (j) the Proponent agrees that the City is not obliged, in any way whatsoever, to carry out further clarifications, verifications or investigations of any Step 1 Submission;
- (k) the Proponent understands that any omission or failure to substantially complete the Step 1 Submission or failure to substantially comply with a requirement included in the RFP Step 1 may result in the Proponent being disqualified;
- (l) the Proponent understands that it must submit a substantially complete Step 1 Submission in accordance with the timelines and requirements of the RFP Step 1 and a failure to do so may result in disqualification of the Proponent;
- (m) the Proponent understands that the RFP Step 1 is not an offer to enter into any contract of any kind whatsoever and is not intended to create a bidding contract (often referred to as "Contract A");
- (n) the Proponent understands that the RFP Step 1 does not constitute any offer of work by the City;
- (o) the Proponent acknowledges C8 of the RFP Step 1 and understands that the Proponent may be disqualified if the Proponent or any Proponent Team Member breaches the provisions of C8, or has been convicted of carrying out inappropriate bidding or procurement practices or engaging in unethical behaviour in relation to a procurement process in Canada;
- (p) the Proponent confirms that the Proponent and each Proponent Team Member has conducted itself with integrity and propriety and has not engaged in any inappropriate bidding practices or unethical behaviour in the course of this Step 1 Process, and there are no charges or investigations by a public body or convictions related to inappropriate bidding practices or unethical behaviour by the Proponent or any Proponent Team Member in relation to a tender or procurement in any Canadian jurisdiction that:
 - (i) are related to the Project;
 - (ii) may compromise the reputation or integrity of the City so as to affect public confidence in the Project; or
 - (iii) would contravene any applicable law or could have a material adverse effect on the Proponent or any Proponent Team Member in a way which could impair the Proponent or any Proponent Team Member's ability to perform its obligations under the Development Phase Agreement or the Design Build Agreement;
- (q) The Proponent certifies that the following addenda have been received by the Proponent and agrees that they shall be deemed to form a part of its Step 1 Submission:

Addendum No. _____	Dated _____
Addendum No. _____	Dated _____
Addendum No. _____	Dated _____

[NOTE TO PROPONENTS: Proponents to list and date all Addenda to RFP Step 1 issued by the City as part of the Step 1 Process]

Procurement Overview



RFP – Step 2

- Only for the Shortlisted Proponents
- Governed by RFP Schedule 3 – Step 2
- Uses SharePoint data rooms and Merx
- Commercially Confidential Meetings (CCMs)
- Scenario Based Interview
- Travel Stipend
- The highest ranked Shortlisted Proponent becomes the Preferred Proponent and will be invited to enter into the Development Phase Agreement

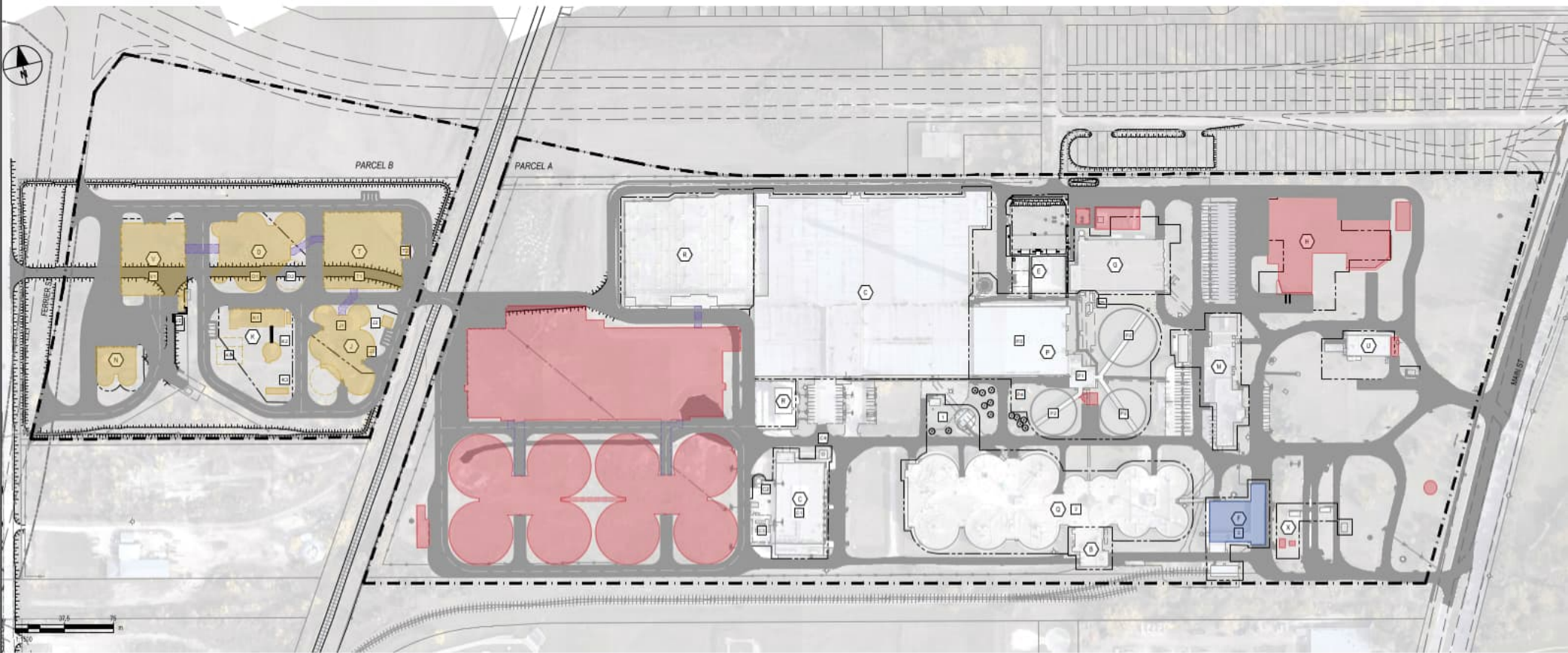
Technical Overview

Biosolids Project includes:

- New hauled raw sludge receiving
- New phosphorus release and recovery
- New pre-digestion sludge treatment
- New anaerobic digestion
- New biosolids processing & loading
- New digester gas handling
- Modifications to primary sludge pumping
- New control system
- Other non-process items



Technical Overview - Overall Site Layout



Technical Overview – Parcel B



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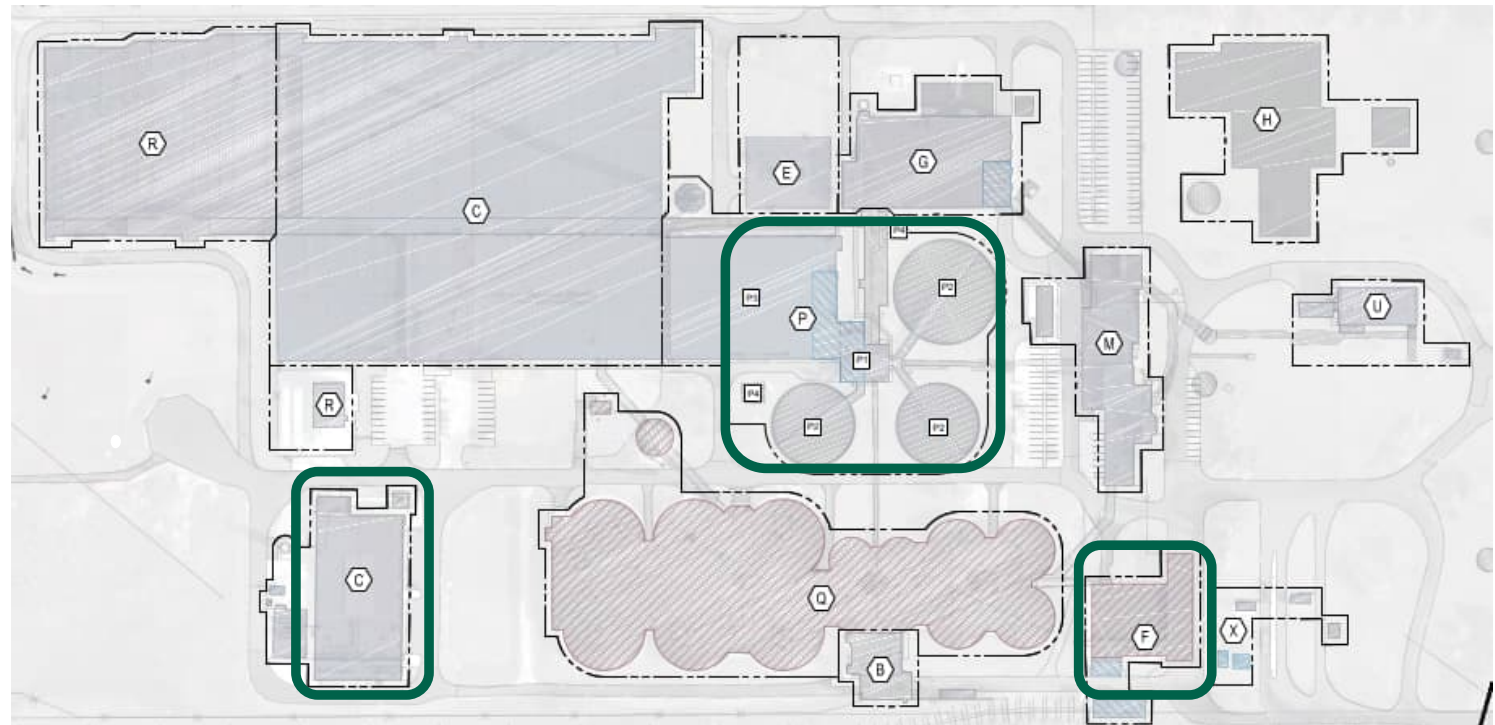
Technical Overview - Overall Site Layout

Liquid Stream:

Area P – Primary Clarification Facility

Area F – Ferric Chloride Receiving & Storage Facility

Area C – Centrate Treatment Facility



Technical Overview – Parcel B



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Technical Overview – Parcel C

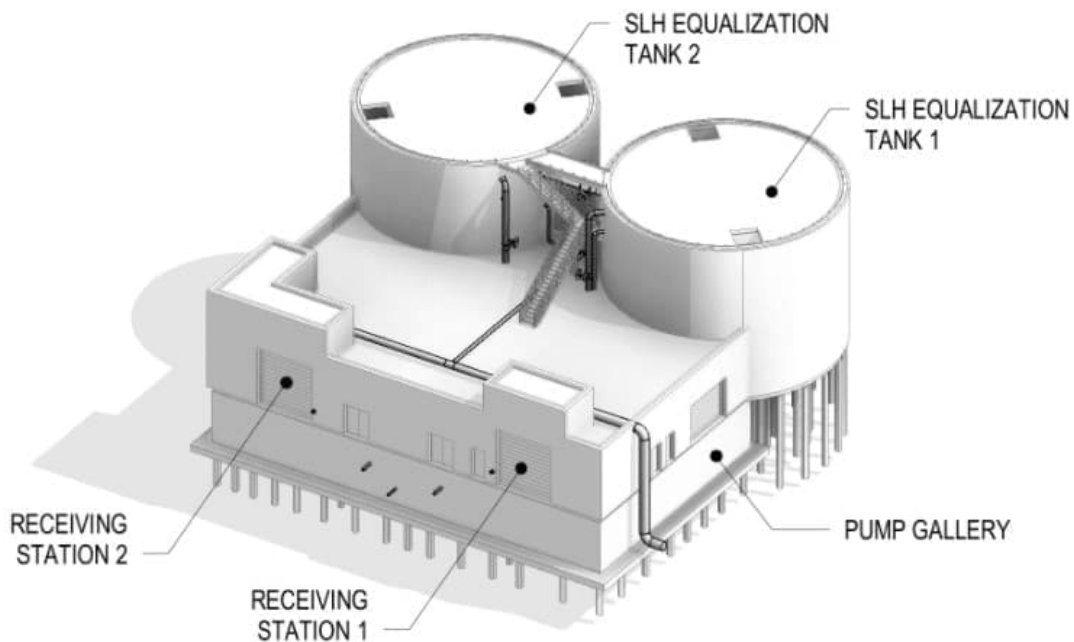


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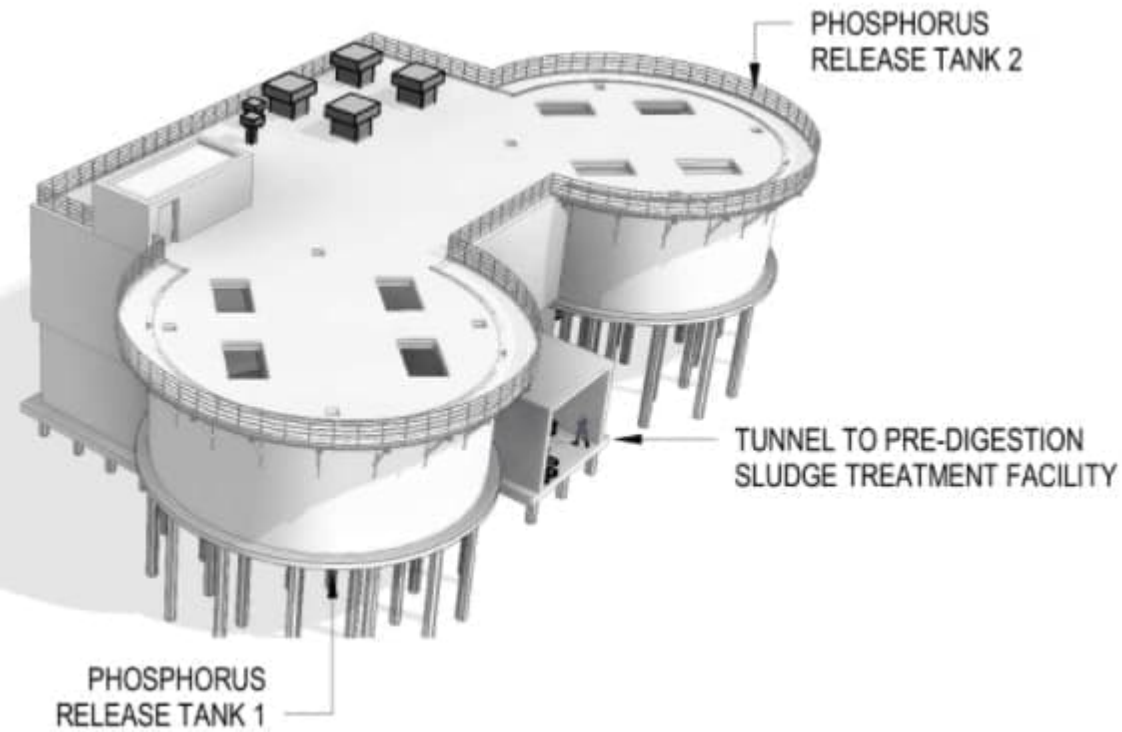
Technical Overview – Facilities and Processes

New Hauled Raw Sludge Receiving (Area N)

- Receiving stations
- Equalization tanks
 - Sludge pumped to the phosphorus release tanks in Area J

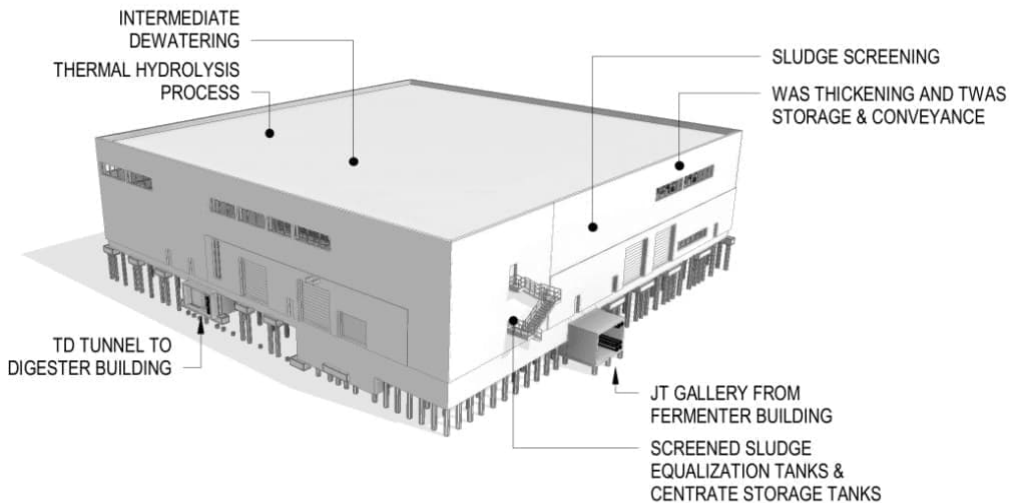


Technical Overview – Facilities and Processes



New Phosphorus Release (Area J)

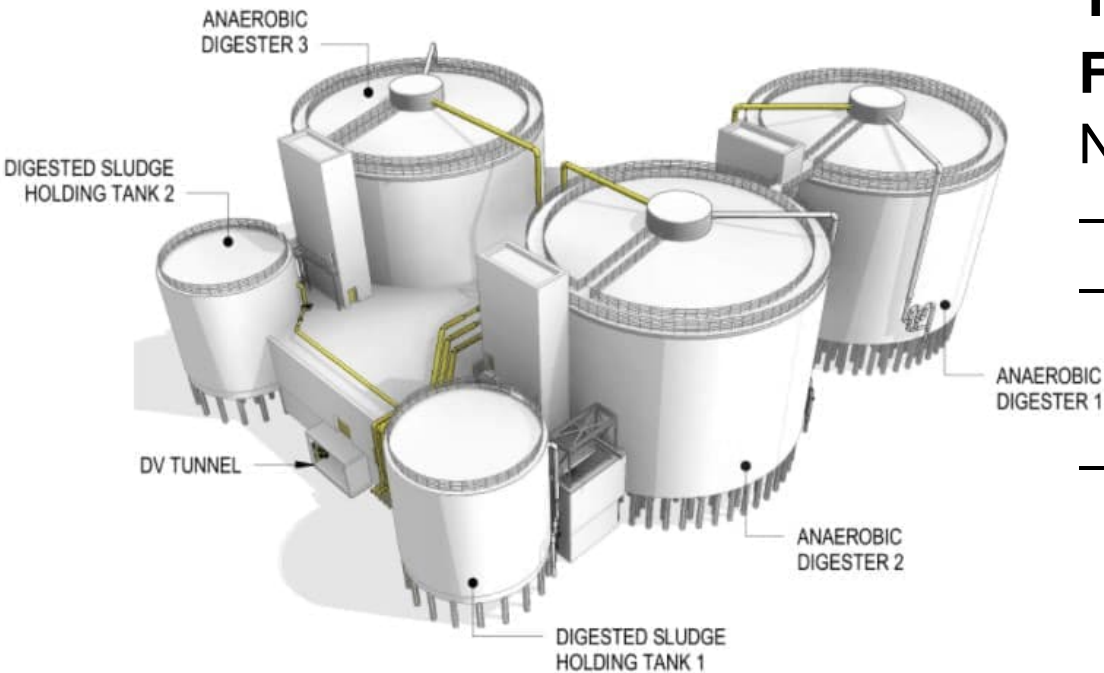
- Phosphorus release tanks
 - Sludge will be pumped to sludge screens in Area T



Technical Overview – Facilities and Processes

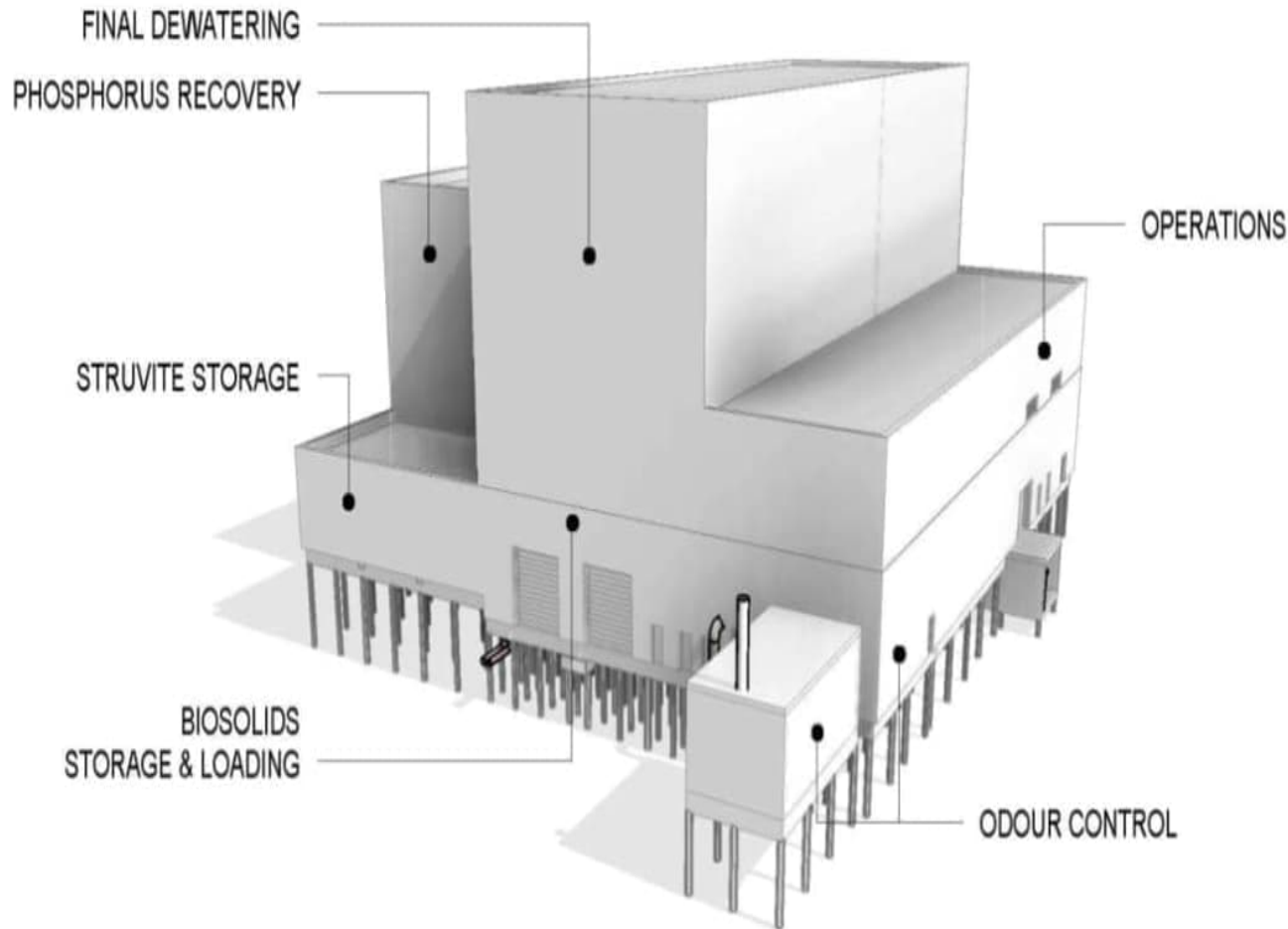
New Pre-Digestion Sludge Treatment (Area T)

- Sludge screening and equalization
- Intermediate dewatering centrifuges, centrate tanks, polymer system
- Cambi Thermal Hydrolysis Process (THP) system
 - Sludge will be pumped to digesters in Area D
- Odour control



- ## Technical Overview – Facilities and Processes
- ### New Anaerobic Digestion (Area D)
- Anaerobic digesters
 - Liquid biosolids holding tanks
 - Biosolids will be pumped to final dewatering centrifuges in Area V
 - Ferric chloride dosing system

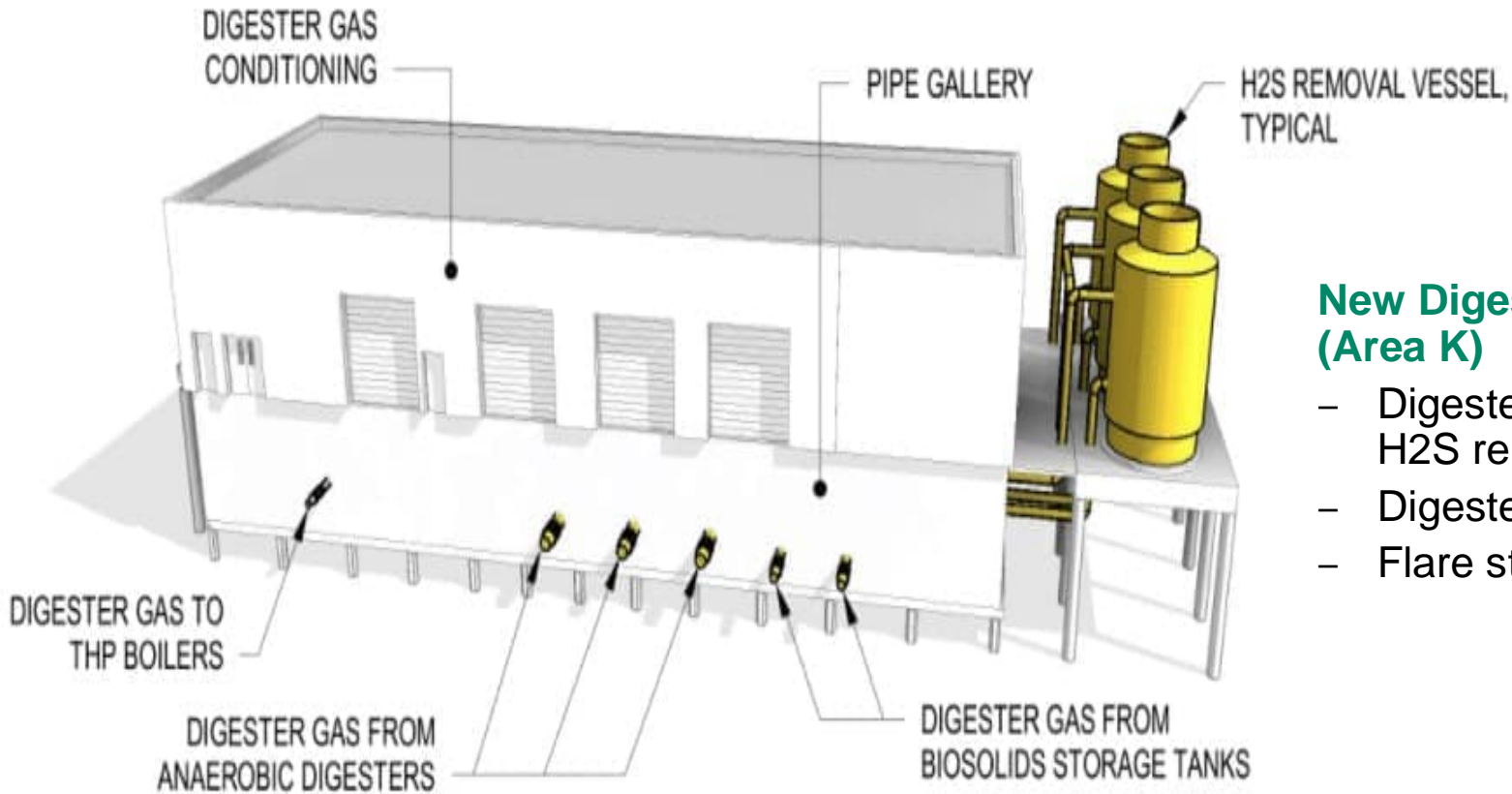
Technical Overview – Facilities and Processes



New Biosolids Processing & Loading (Area V)

- Final dewatering centrifuges, centrate tanks, polymer system
- Final biosolids storage & loading
- Ostara phosphorus recovery
- Odour control

Technical Overview – Facilities and Processes



New Digester Gas Handling (Area K)

- Digester gas conditioning and H₂S removal
- Digester gas storage sphere
- Flare stacks



Technical Overview – Facilities and Processes

Existing Primary Clarification (Area P)

- New primary sludge pumps
 - Sludge will be pumped to sludge screens in Area T

Ferric Chloride Receiving and Storage (Area F)

- Connection to ferric lines

Centrate Treatment Facility (Area C)

- Connection to discharge into centrate SBRs

Technical Overview – Facilities and Processes

Non-Process Items

- Ancillary systems
- Electrical
- Automation and control systems
- Utilities
- Site works
- Life safety systems
- Building mechanical
- Access tunnels



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Questions and Answers



NORTH END WATER POLLUTION CONTROL CENTRE
CITY OF WINNIPEG 2230 MAIN ST.

Only non-technical questions will be answered
Technical questions should be asked through the RFI process