

City of London Biosolids Management Master Plan



Virtual Public Information Center #3



Welcome to virtual Public Information Center #3

The Master Plan will look at how the City is currently managing wastewater solids at its five wastewater treatment plants and guide how we will continue to meet the demands of our growing community over the next 30 years.

1. Please sign in
2. Review the project information
3. Complete the questionnaire to provide input
4. Reach out to the project team with questions and comments

This is the third of three Public Information Centers where you will have the chance to help shape the Master Plan.



Community engagement plan

The City of London wants to provide an opportunity for community members, First Nations, and agencies to offer suggestions, comments and ideas for the Master Planning process.

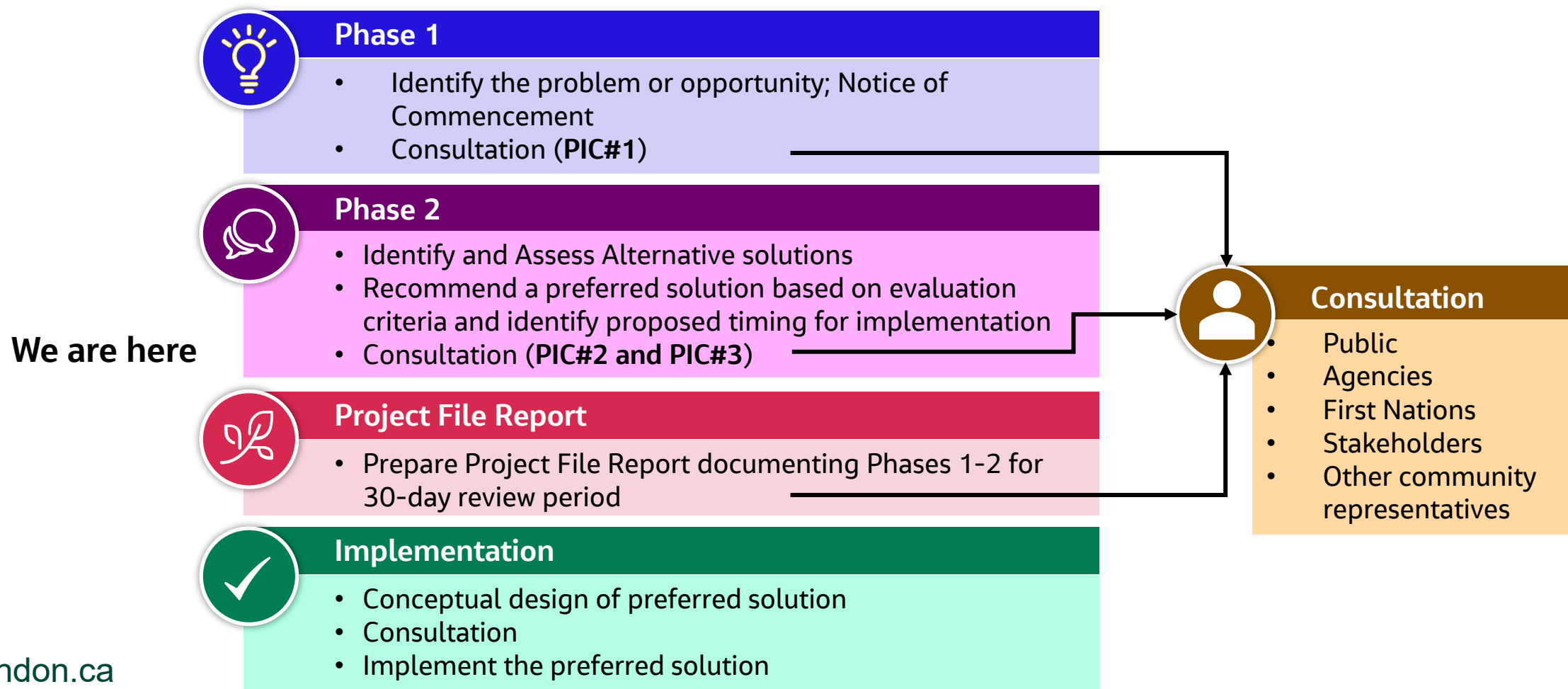
Three (3) Public Information Centers (PIC) were planned for this Master Plan process.

- **PIC #1** (Completed in Fall 2021): Presented the study overview, problem and opportunities statement, decision-making process, and evaluation criteria.
- **PIC #2:** (Completed in Summer 2023): Presented information on the long list of strategies, end-uses, and technologies, rationale for short-listed alternatives, preferred alternative solutions, and implementation strategy.
- **PIC #3:** Presents information on the long list of sites for a new centralized digestion and alkaline stabilization facility, site evaluation, and implementation strategy

For the most up-to-date information related to the Master Plan, please refer to the study webpage: <https://getinvolved.london.ca/biosolids>

Class Environmental Assessment (EA) process

The Master Plan will complete **Phases 1 & 2** of the Class EA Process.



Preferred management strategy

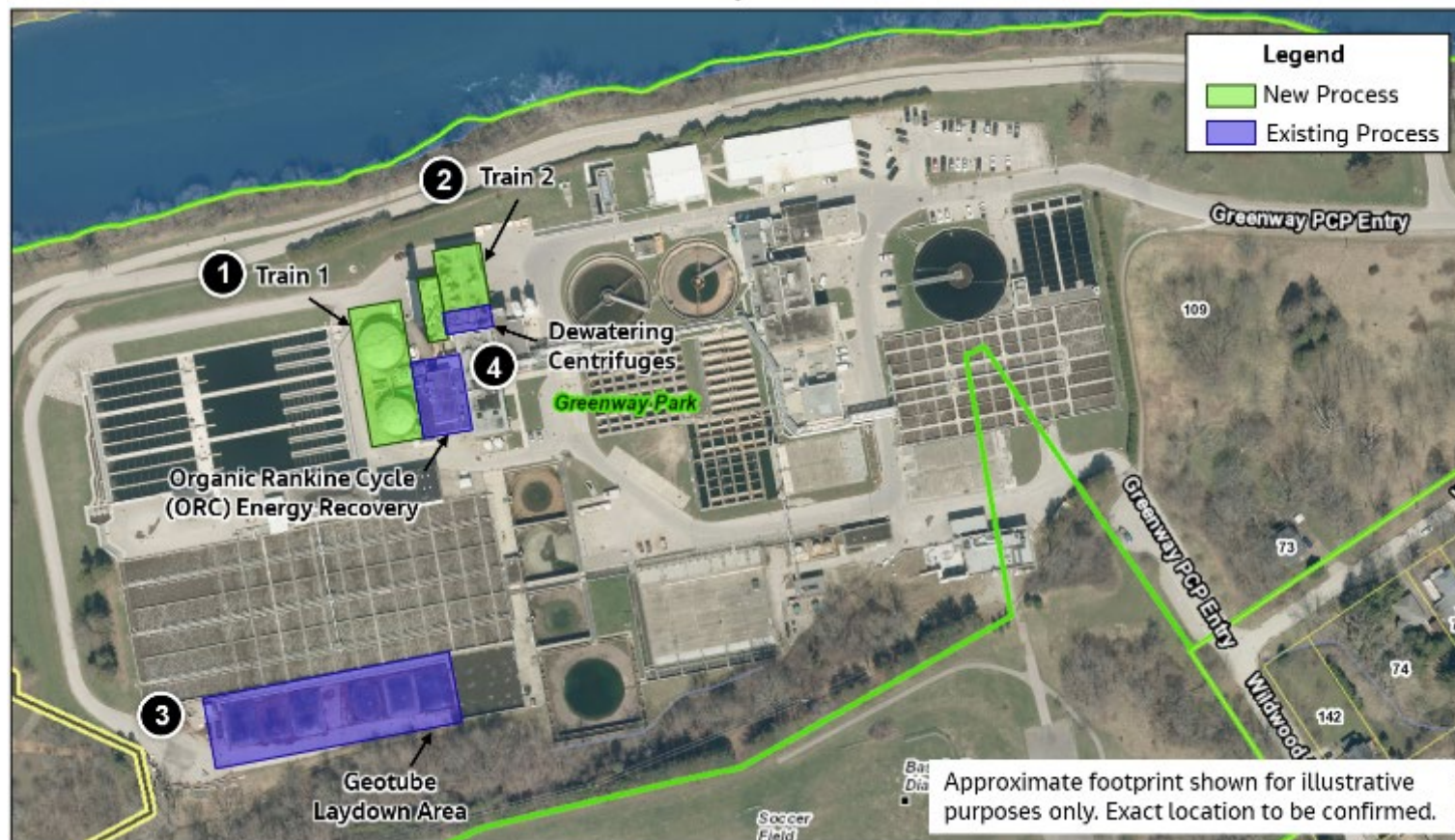
The preferred alternative consists of a combination of two facilities:

- Incineration with Ash Dewatering and Off-site Management at the **Greenway WWTP**
- Fertilizer production via Anaerobic Digestion and Alkaline Stabilization at a **New Centralized Facility**

Greenway WWTP

- Construct new incineration train sized for future sludge generation at the Greenway WWTP. **Train 1** will be built in the footprint of the existing sludge holding tanks.
- Construct a redundant incineration train for contingency. The existing incineration train will be decommissioned, and **Train 2** will be built in this area.
- Geotube bags for ash dewatering.
- Ash use in manufacturing, for soil amendment, or landfilled as contingency.
- Existing dewatering and organic rankine cycle (ORC) equipment will be maintained.
- Potential for satellite plant sludge to also be managed at Greenway WWTP as a contingency.

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Preferred management strategy

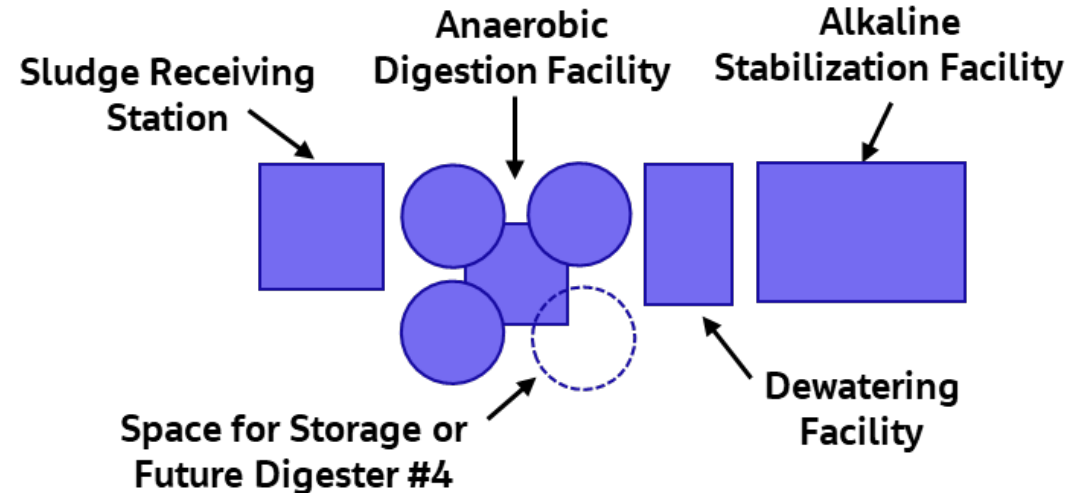
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New Centralized Facility

- Sludge from Greenway WWTP to be managed at the on-site incineration facility under normal operation.
- New facility to include **anaerobic digestion, dewatering, and alkaline stabilization**. Sized for future sludge generation at the satellite plants which include: Adelaide, Oxford, Pottersburg, and Vauxhall WWTPs.
- Thickened sludge from the satellite plants to be hauled by truck to the new facility.
- Alkaline stabilized fertilizer product to be sold under the **Federal Fertilizers Act**. Regulatory requirements in effect at the time of design may influence final process selection.
- Preferred location to be identified as part of this Master Plan

General Site Plan



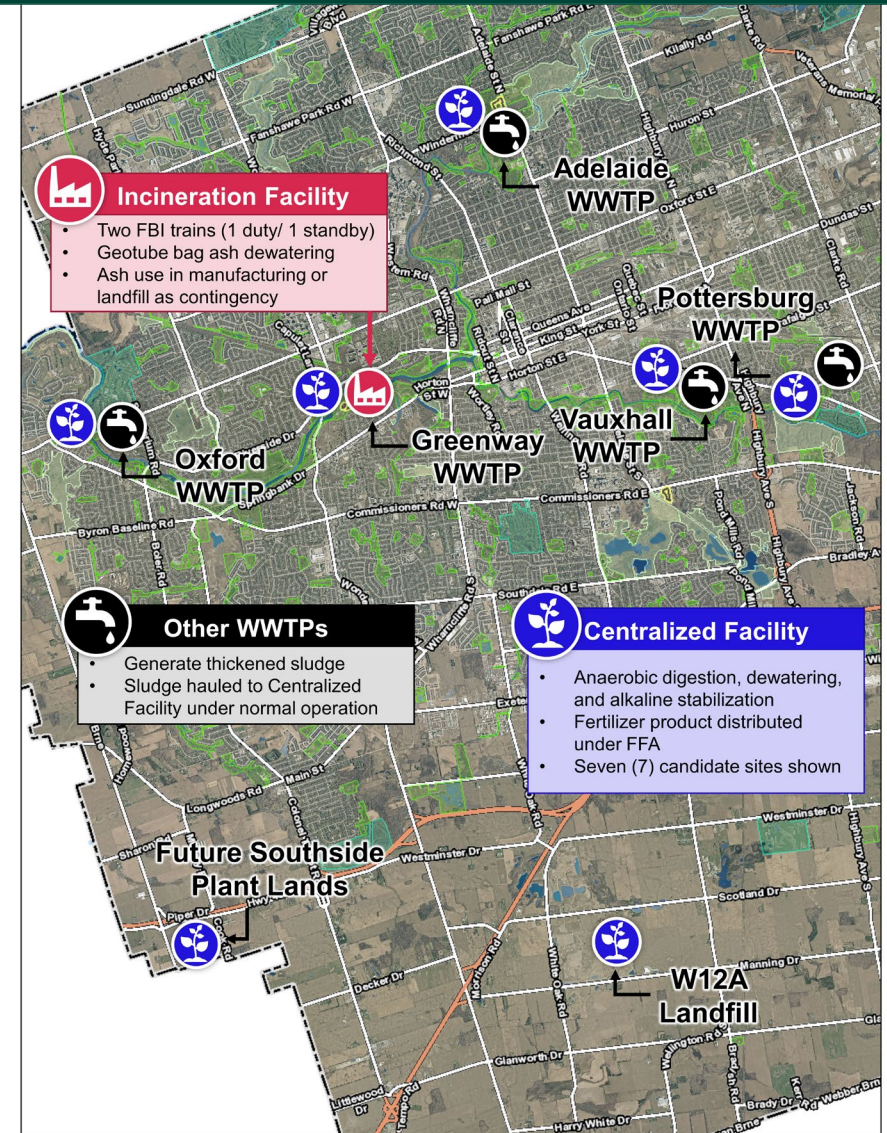
Long-list of alternative sites

A long-list of potential locations for the new centralized alkaline stabilization facility was determined. These potential locations were screened against a set of “must-meet” criteria:

- Ease of approval
- Infrastructure available to support biosolids management
- Available space/footprint

Potential locations and screening results include the following:

- **W12A Landfill - Shortlisted**
- Greenway WWTP
- Adelaide WWTP
- Oxford WWTP
- **Pottersburg WWTP - Shortlisted**
- Vauxhall WWTP
- Future WWTP property south of the Highway 402



Site selection evaluation framework

The short-listed sites (W12A Landfill and Pottersburg WWTP) were assigned scores in various criteria organized into four categories:



Natural Environment

- Water, soil, and air quality
- Greenhouse gas emissions



Technical Environment

- Synergy with existing operations
- Constructability
- Resiliency and reliability



Social/ Cultural Environment

- Noise
- Odour
- Traffic
- Health and safety



Economic Environment

- Capital cost
- Operations and maintenance cost

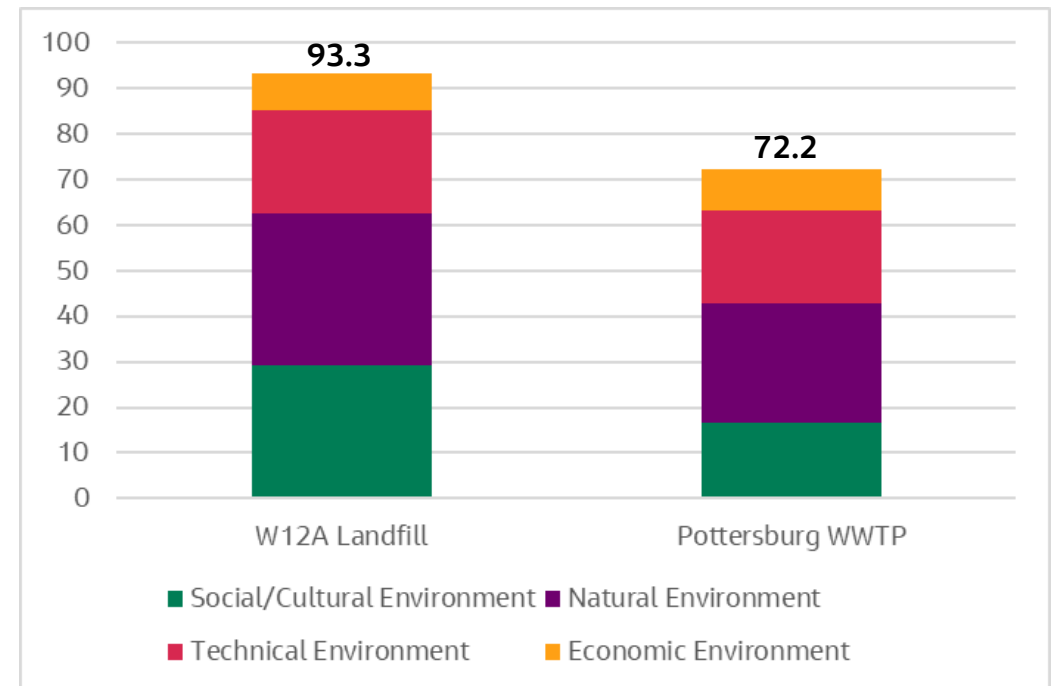
Evaluation of alternative sites

Location 1 – W12A Landfill located at 3502 Manning Drive was selected as the preferred site for a new centralized alkaline stabilization facility.

The preferred alternative was selected due to the following benefits:

- Truck haulage routes will primarily be on rural roads, minimizing the impacts on City traffic.
- The location is further away from sensitive receptors such as residentially zoned areas.
- The site is located outside of the floodplain and is not located near any wellhead protection areas or intake protection zones.
- The site is already approved and used for waste management, simplifying the approvals process.

Rank	Alternative Site
1	W12A Landfill
2	Pottersburg WWTP

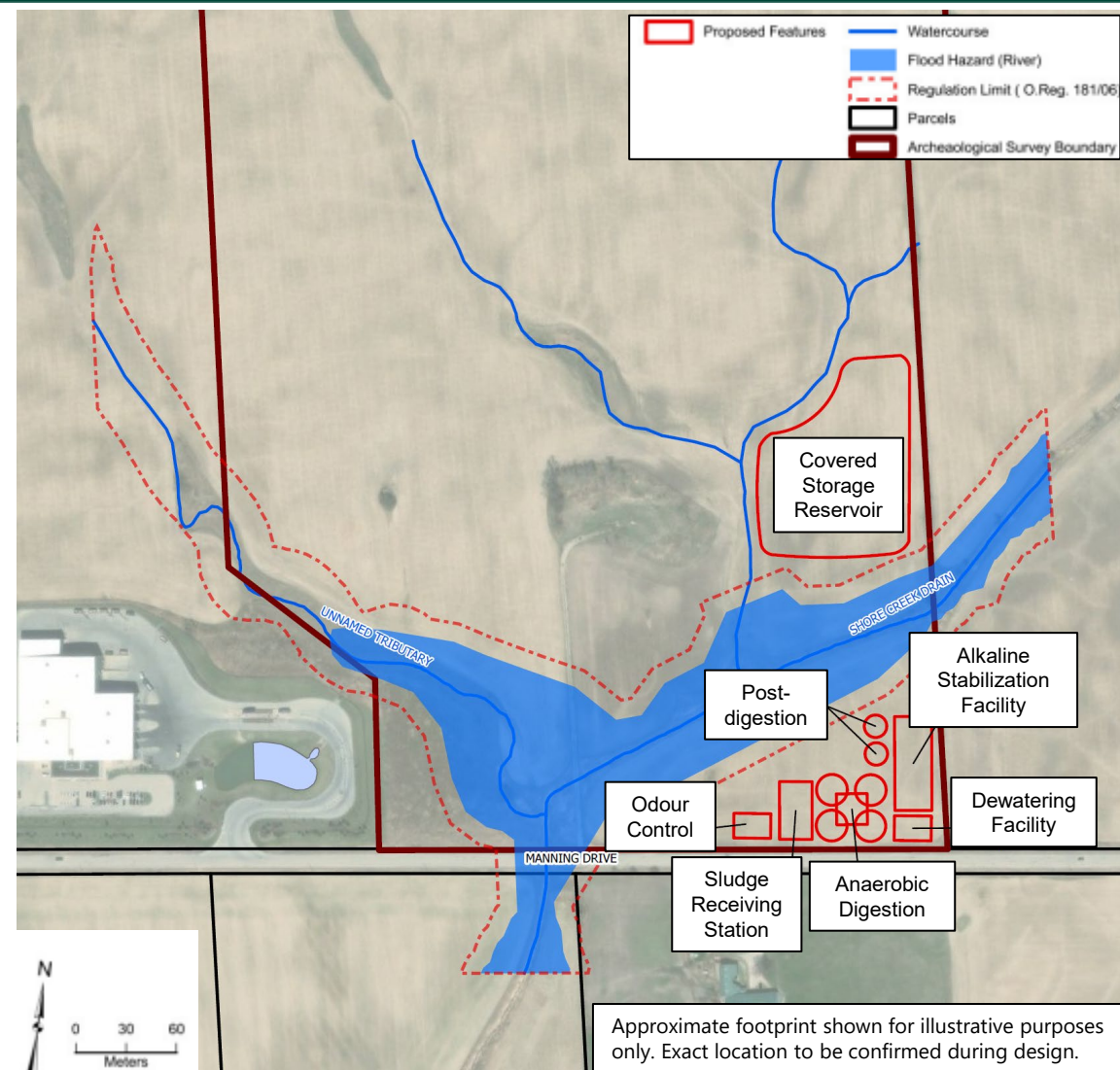


Preferred site

Location 1 – W12A Landfill located at 3502 Manning Drive was selected as the preferred site for a new centralized alkaline stabilization facility.

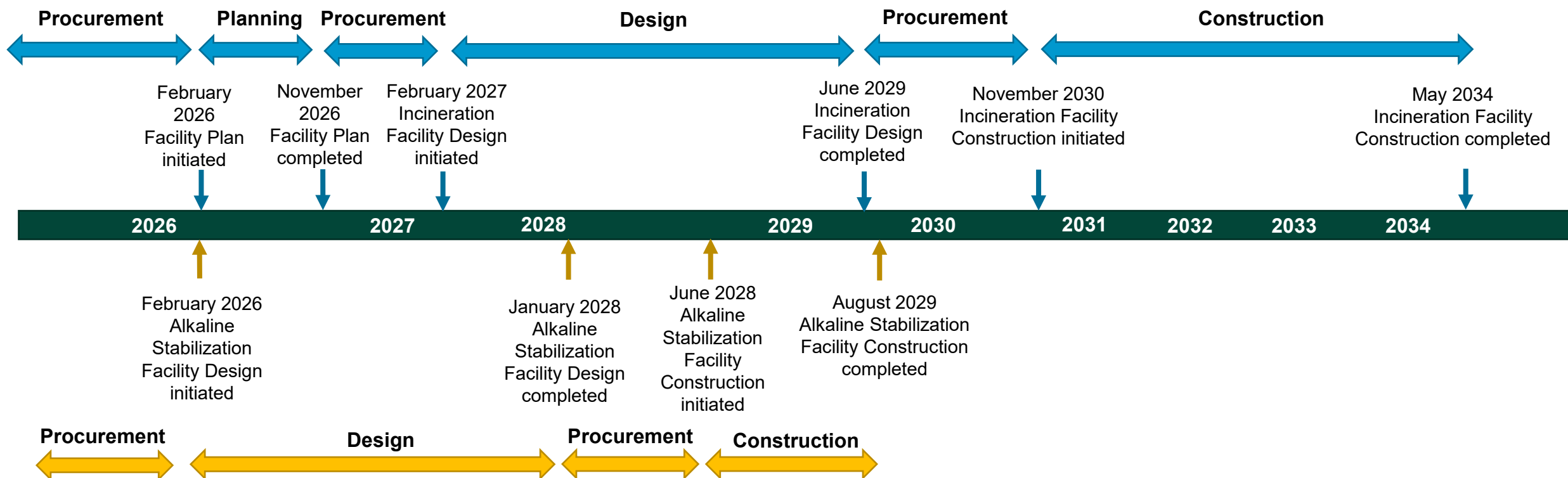
The facility will be located east of the future landfill expansion area, with the exact location to be confirmed during design.

Odour control technology and configuration for the facility will also be evaluated during design.



Implementation plan

Greenway WWTP



New Centralized Facility



Next steps

Thank you for your interest in the City's Biosolids Management Master Plan.

Your feedback is an important part of the Master Plan process and will be considered in completing the Project File Report.

- Join the project mailing list to receive project updates. Please provide your contact information (name and email) to the contacts below. You can also provide feedback through the Get Involved site at <https://getinvolved.london.ca/biosolids>.
- Following City Council endorsement, the Project File Report will be available for 30-day public review in Summer 2025.

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