



Sanitary Sewershed Master Plan

Water Pollution Control Plant No. 1
Lakeview/Forth Street and Monks Cove Sanitary Pumping Stations

Public Information Centre 1

February 2, 2026

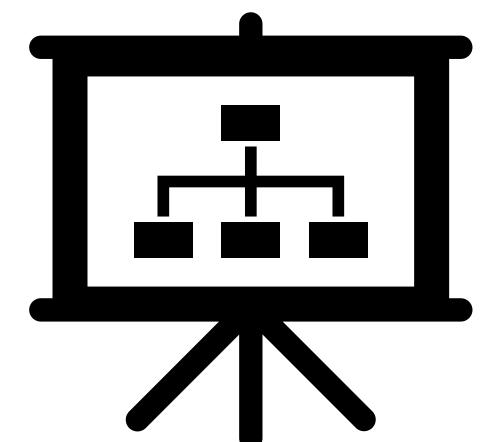
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Welcome!

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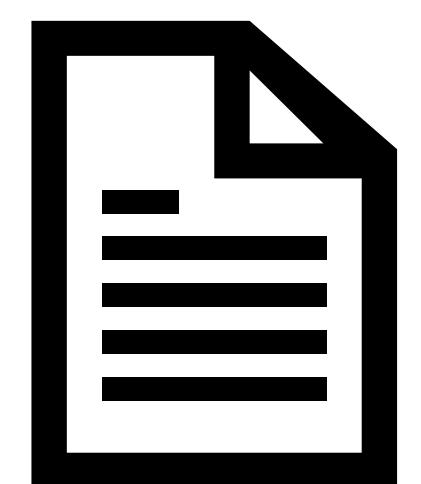
Sign in at the entrance



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Share your thoughts with study team members



Complete a comment form and drop it in the provided drop-box

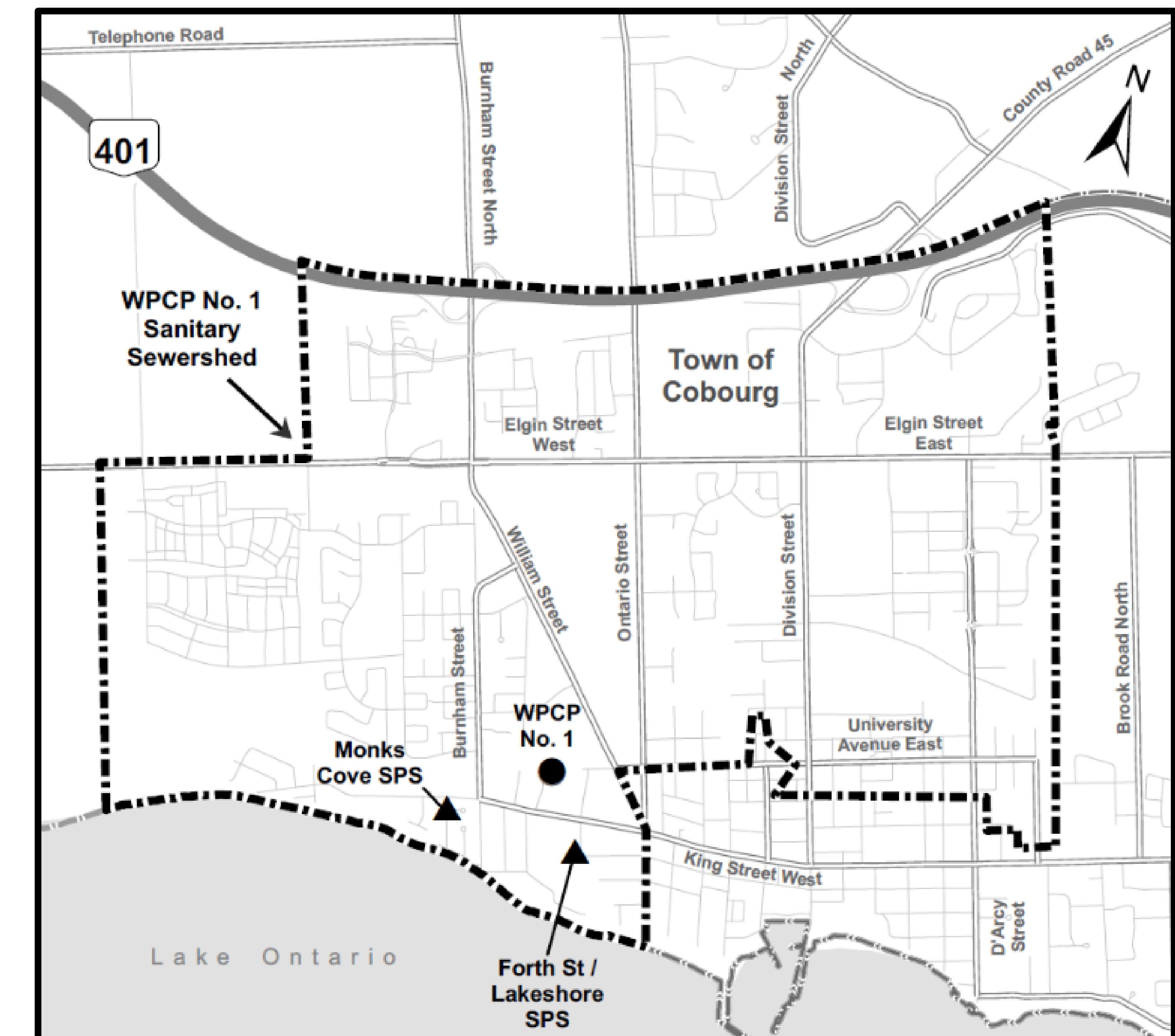
Why is this study being done?

The Town of Cobourg (Town) is undertaking a Master Plan study to identify the potential sewage system improvements required to address projected growth within the Water Pollution Control Plant No. 1 sanitary sewershed. The existing wastewater system is serviced by Water Pollution Control Plant (WPCP) No. 1 and associated sewage pumping stations (SPSs) and sewer network. Projected growth within the sanitary sewershed area is expected to exceed the existing sewage system capacity.

This study will assess wastewater treatment, pumping station, and sewer network deficiencies and identify the operational and capacity improvements required to meet existing and future demands within the sewershed.

The purpose of this PIC is to:

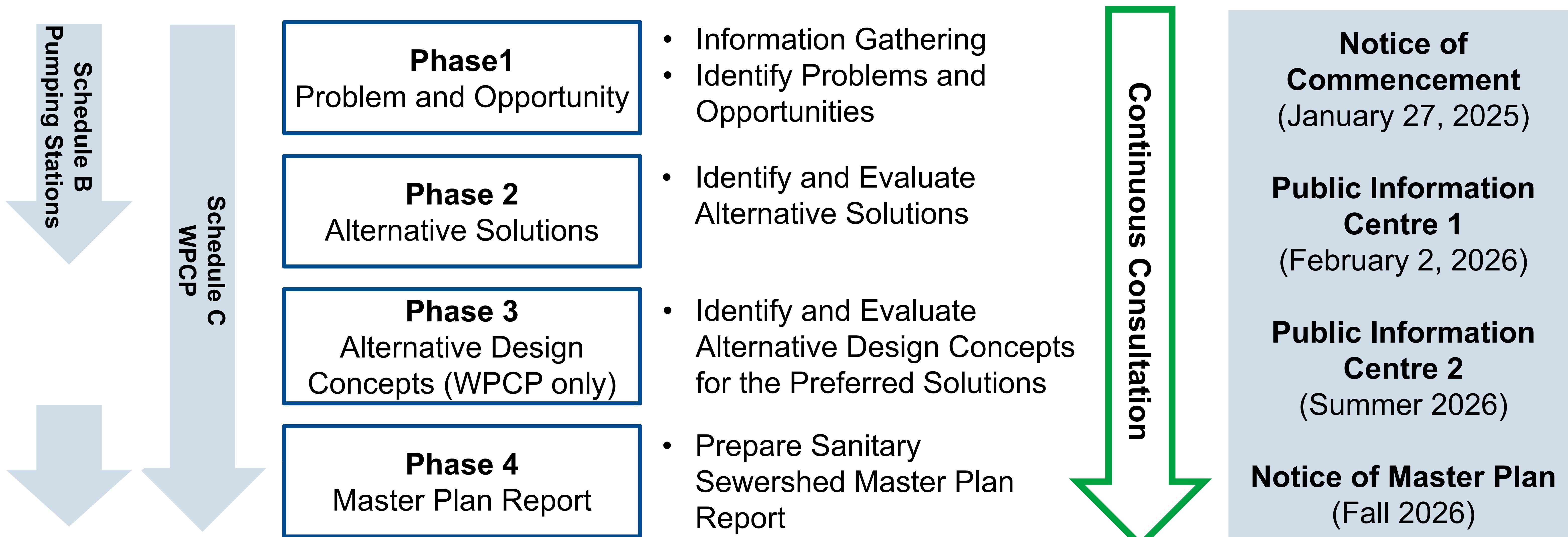
- Outline the study process
- Share background information
- Present existing conditions within the study area
- Present the problems and potential opportunities, preliminary evaluation criteria and alternative solutions for your review and feedback
- Outline next steps in the study process



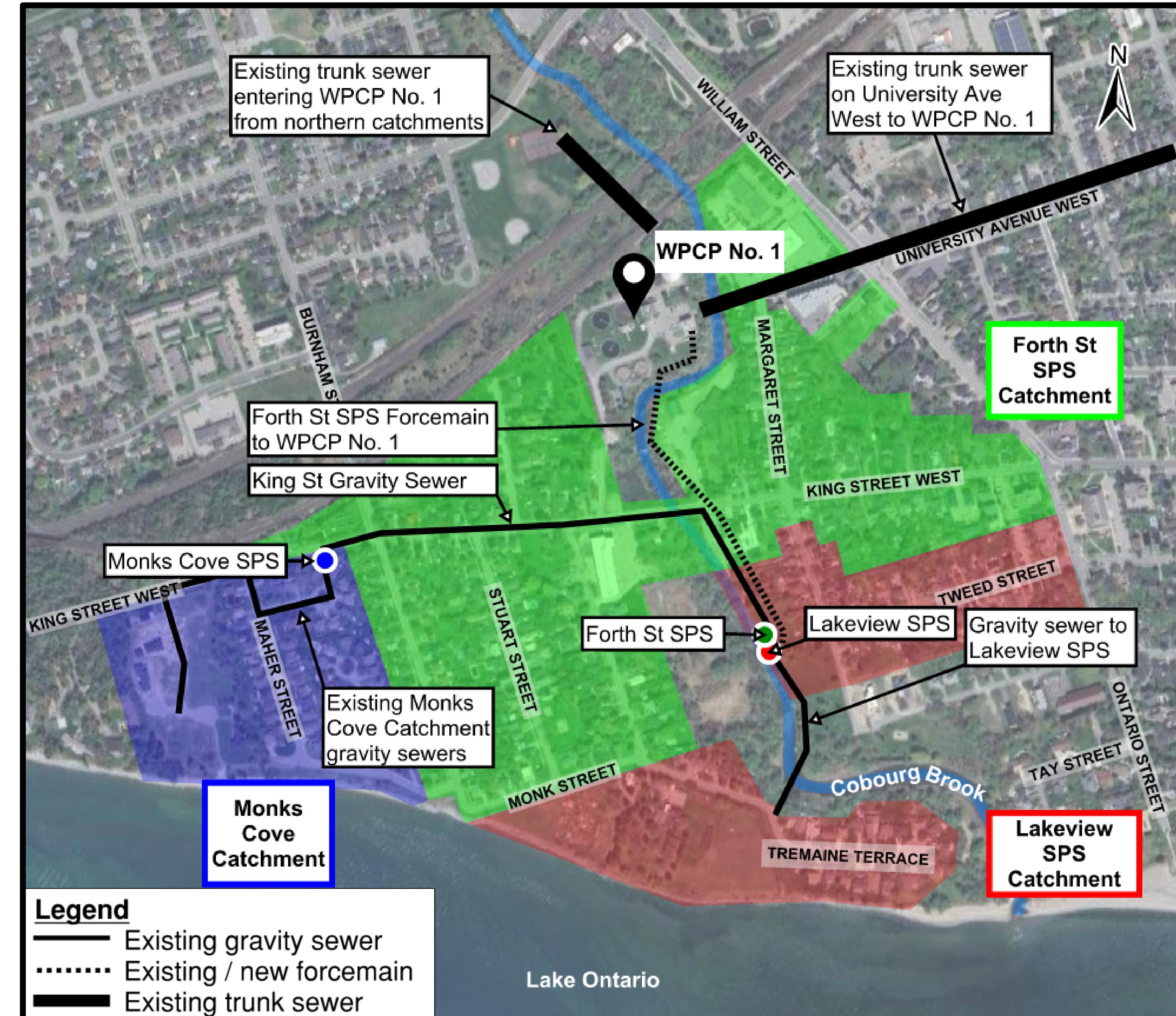
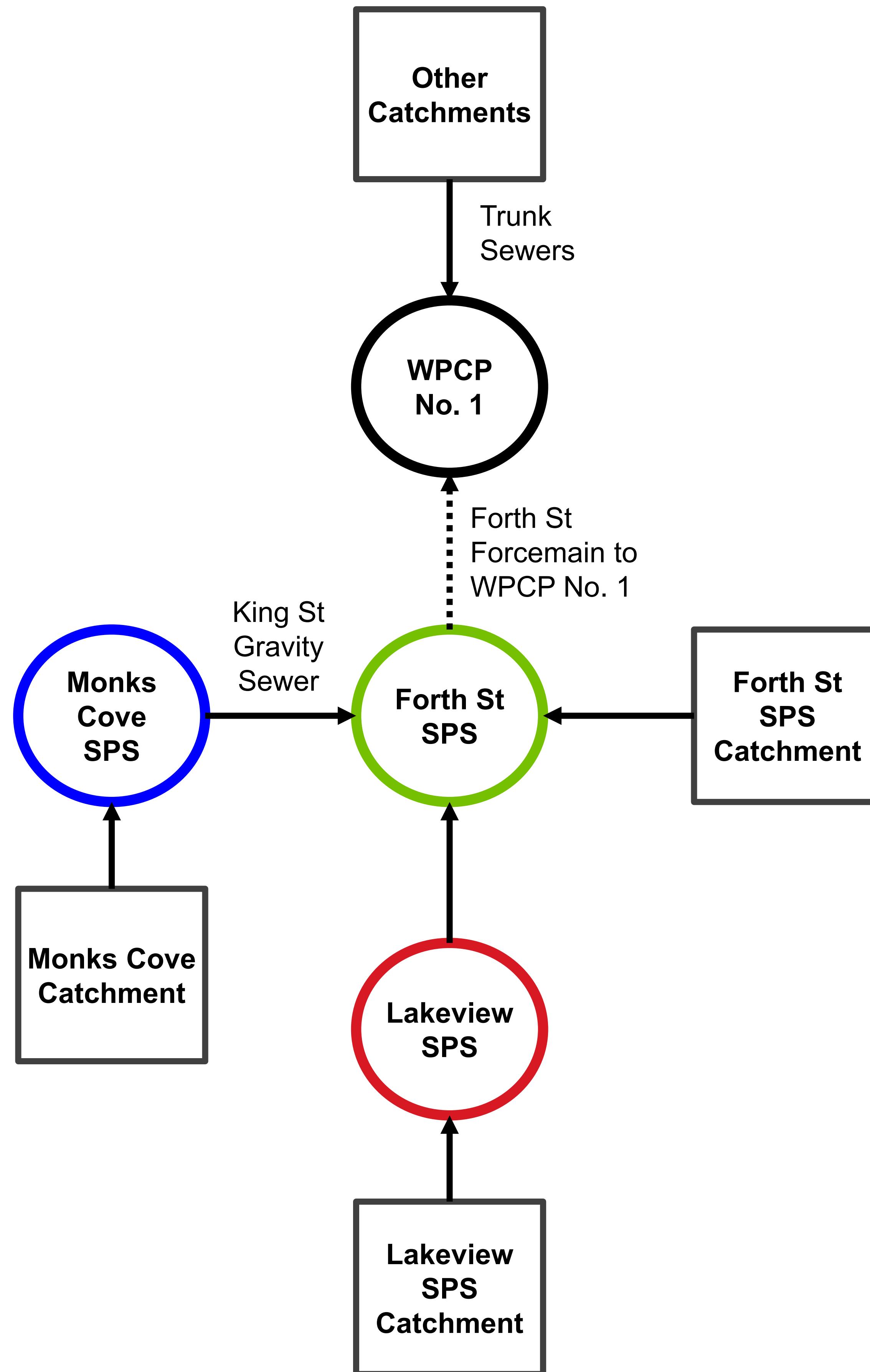
Sanitary Sewershed Master Plan Process

Municipal planning for infrastructure improvements must be completed in accordance with the **Municipal Class Environmental Assessment (MCEA)** process, which is an approved process under the Ontario Environmental Assessment Act.

This study is being undertaken in accordance with Approach #3 of the Master Planning Process and will address Phases 1 through 4 of the MCEA process to fulfill the requirements for the recommended Schedule B and C projects identified within it.



Existing Sanitary Network and Catchments

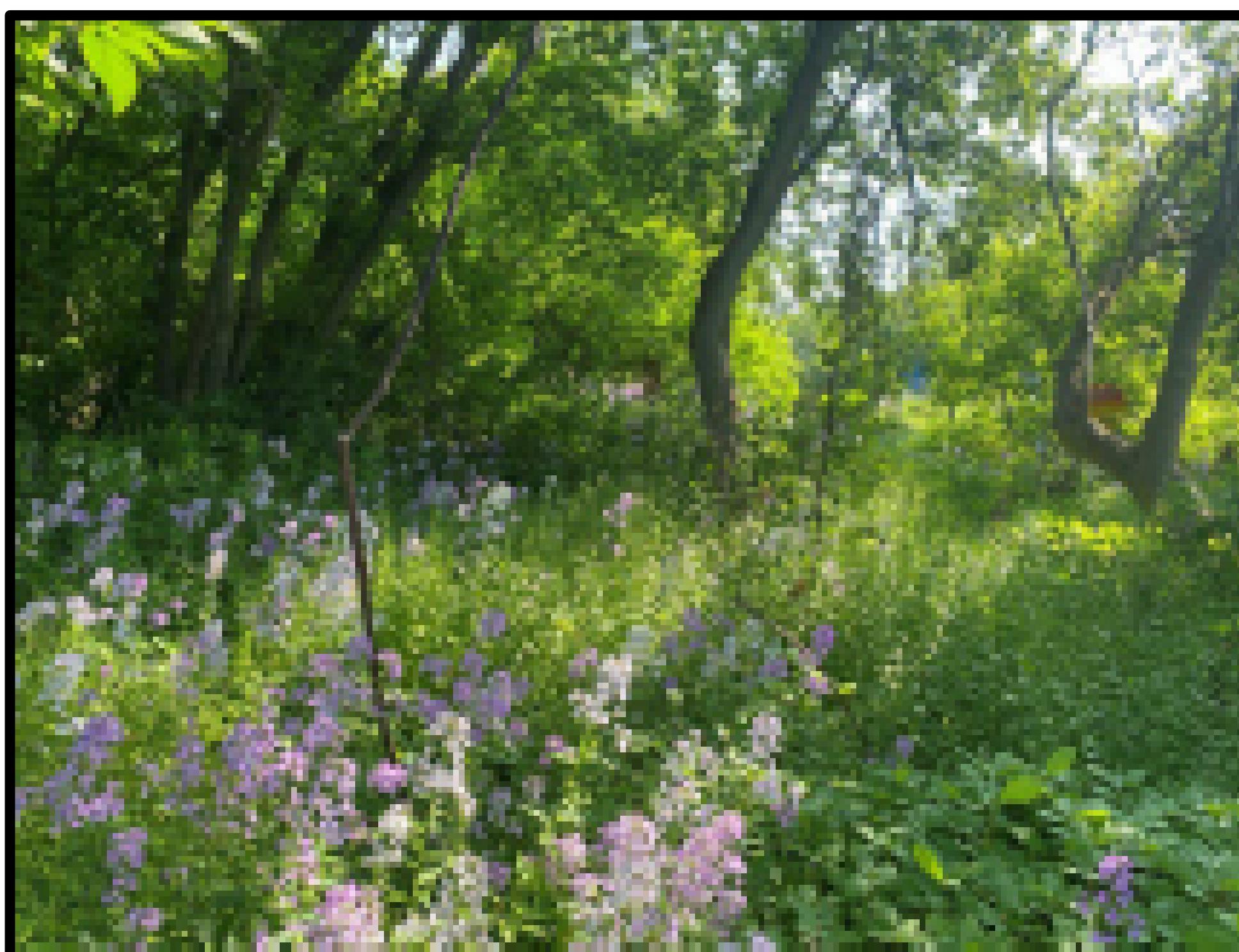


Facility	Current Capacity (L/s)	Estimated Current Peak Flow (L/s)
Monks Cove SPS	11.2	4.4
King St Gravity Sewer	32.6	16.9
Lakeview SPS	8.3	7
Forth St SPS	26.5	30.4

Environmental Studies

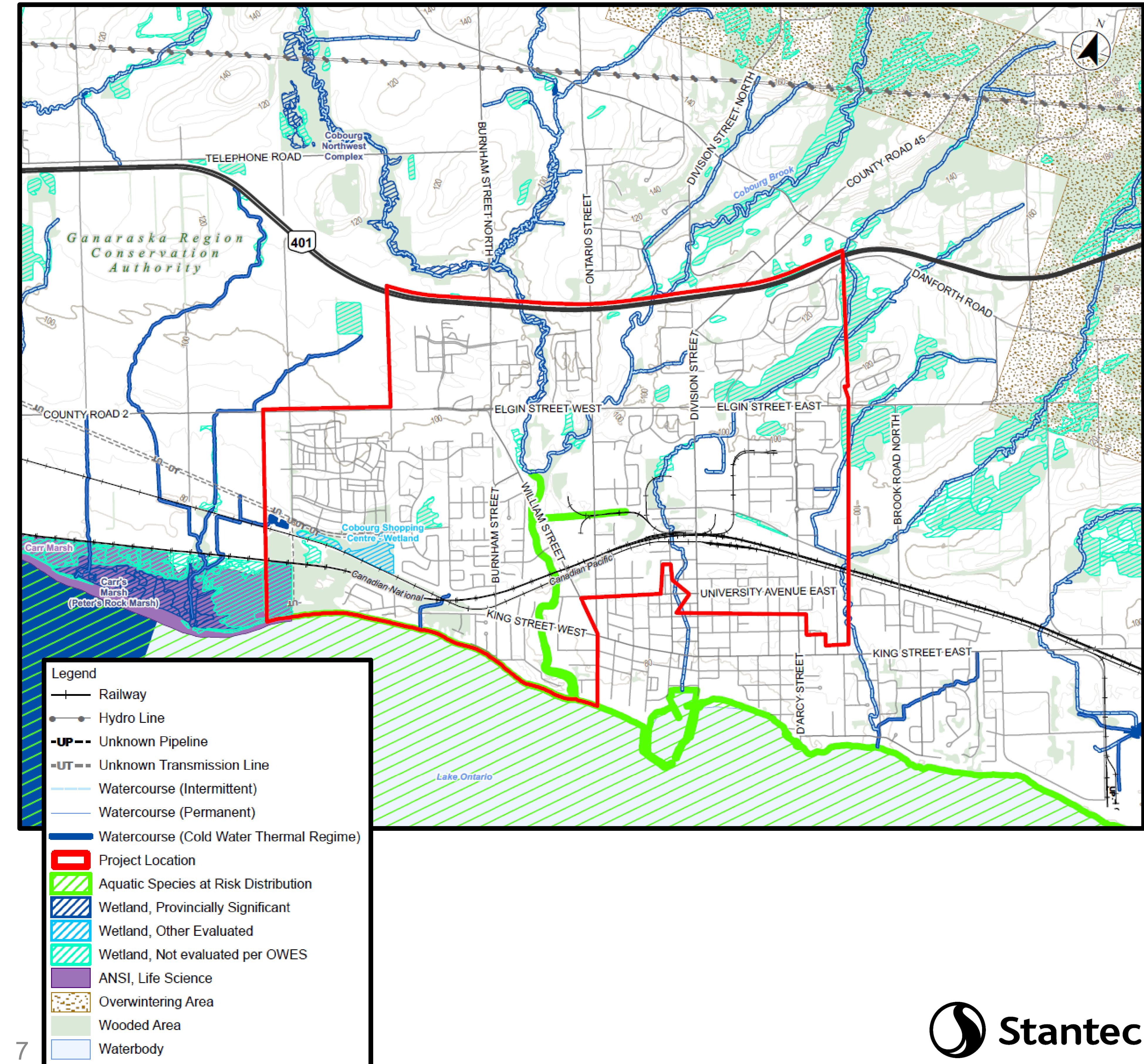
The following environmental studies are planned as part of this study:

- Natural Heritage Impact Assessment
- Cultural Screening Memorandum
- Cultural Heritage Resource Assessment
- Stage 1 Archaeological Assessment (AA), potential need for additional Stage 2 AA during next phase of study depending on the Preferred Solution



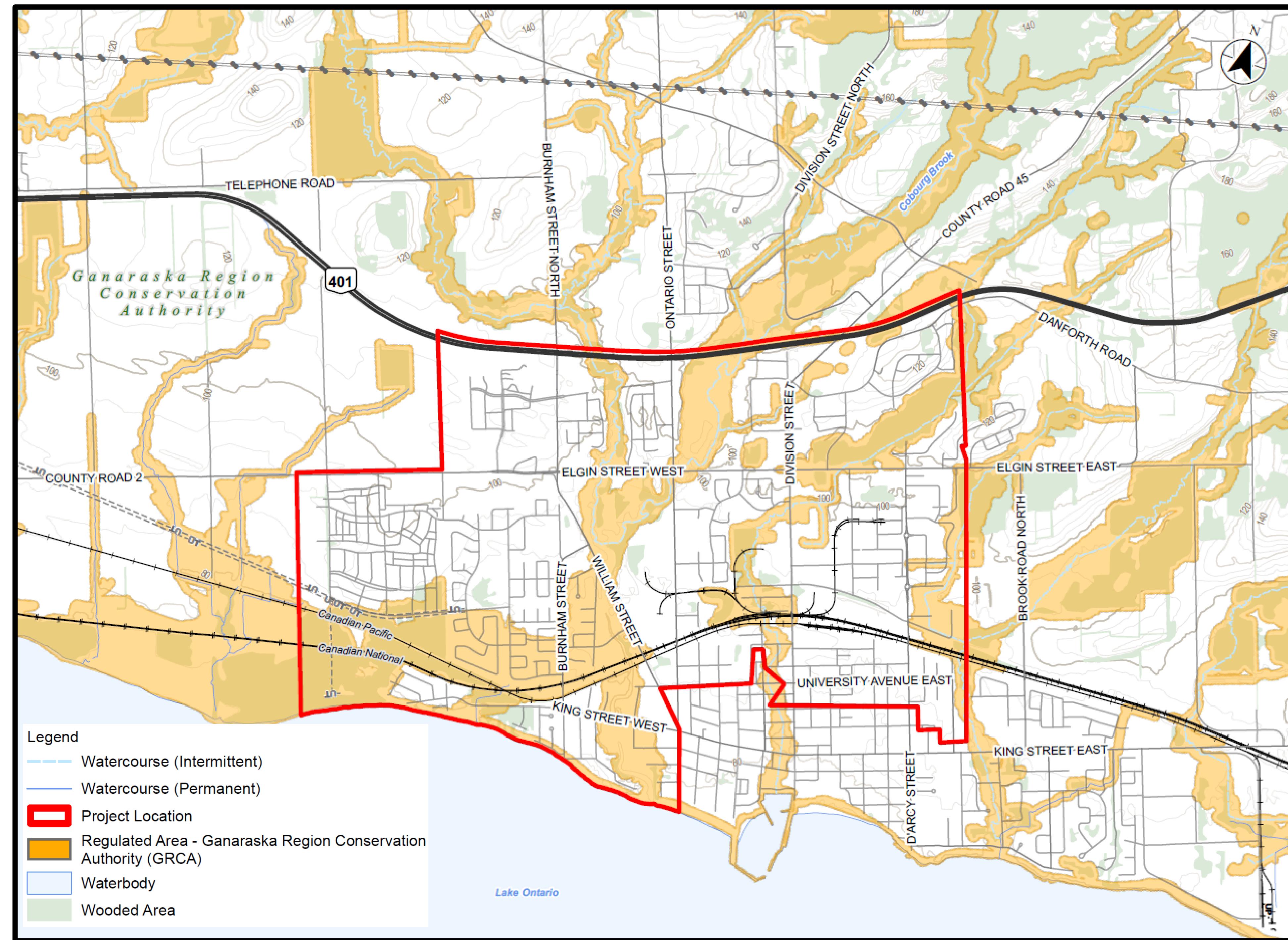
Existing Conditions – Natural Environment

- A review of existing natural heritage conditions within the sewershed was undertaken.
- Several natural heritage features and areas of potential constraint have been identified.
- 16 Species at Risk have been recorded within the study area.
- These features will be considered within the evaluation of alternative solutions.



Existing Conditions – Natural Environment

The Ganaraska Region Conservation Authority (GRCA) Regulated Area is an environmentally sensitive area, such as a floodplain, wetland, watercourse or shoreline. Any development in these areas requires permission from the GRCA to help ensure protection of these features.



Existing Conditions – Cultural Heritage

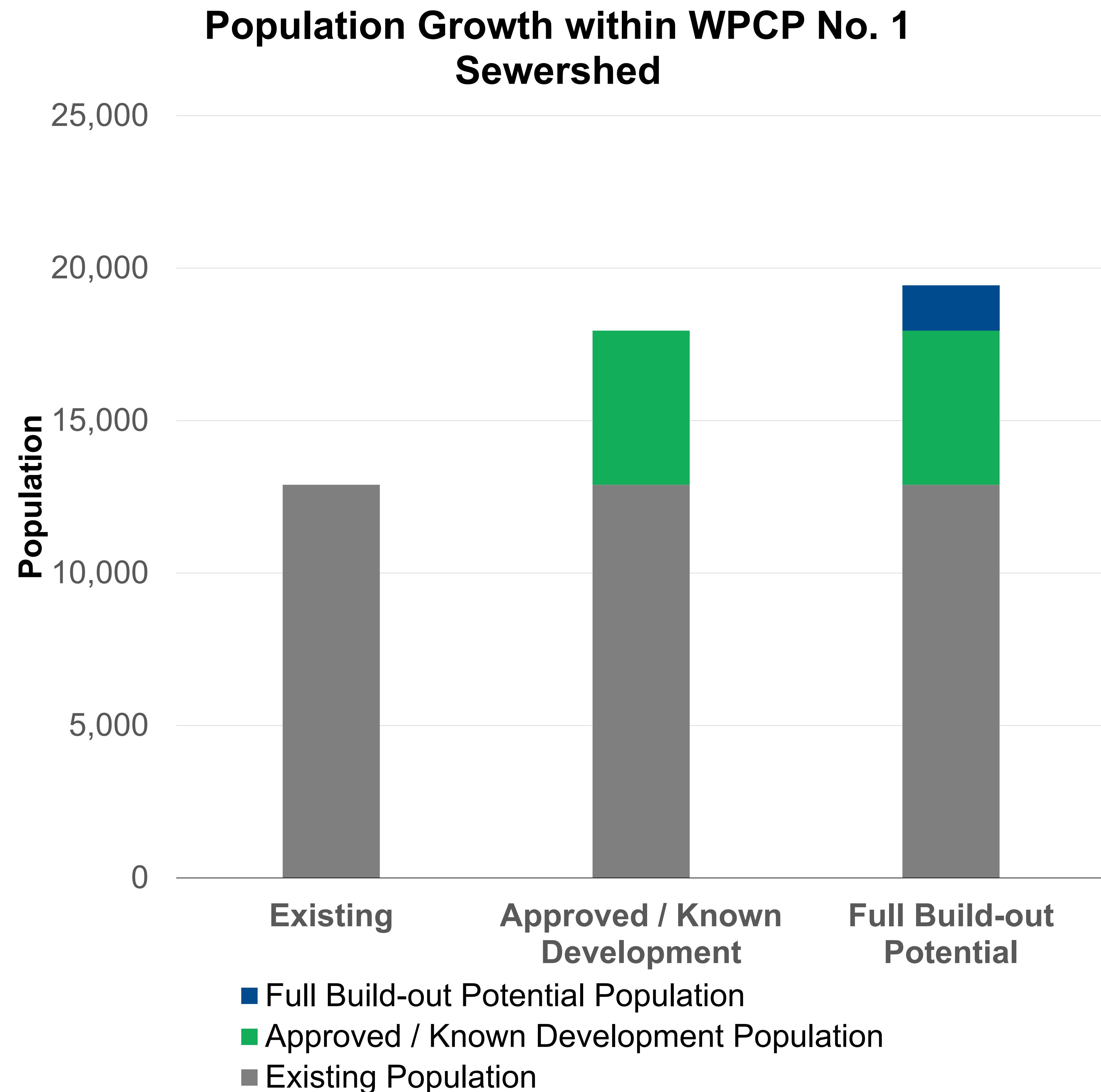
A Cultural Heritage Screening has been completed for the study area. Listed and designated heritage properties were identified within the catchment areas at the below locations.



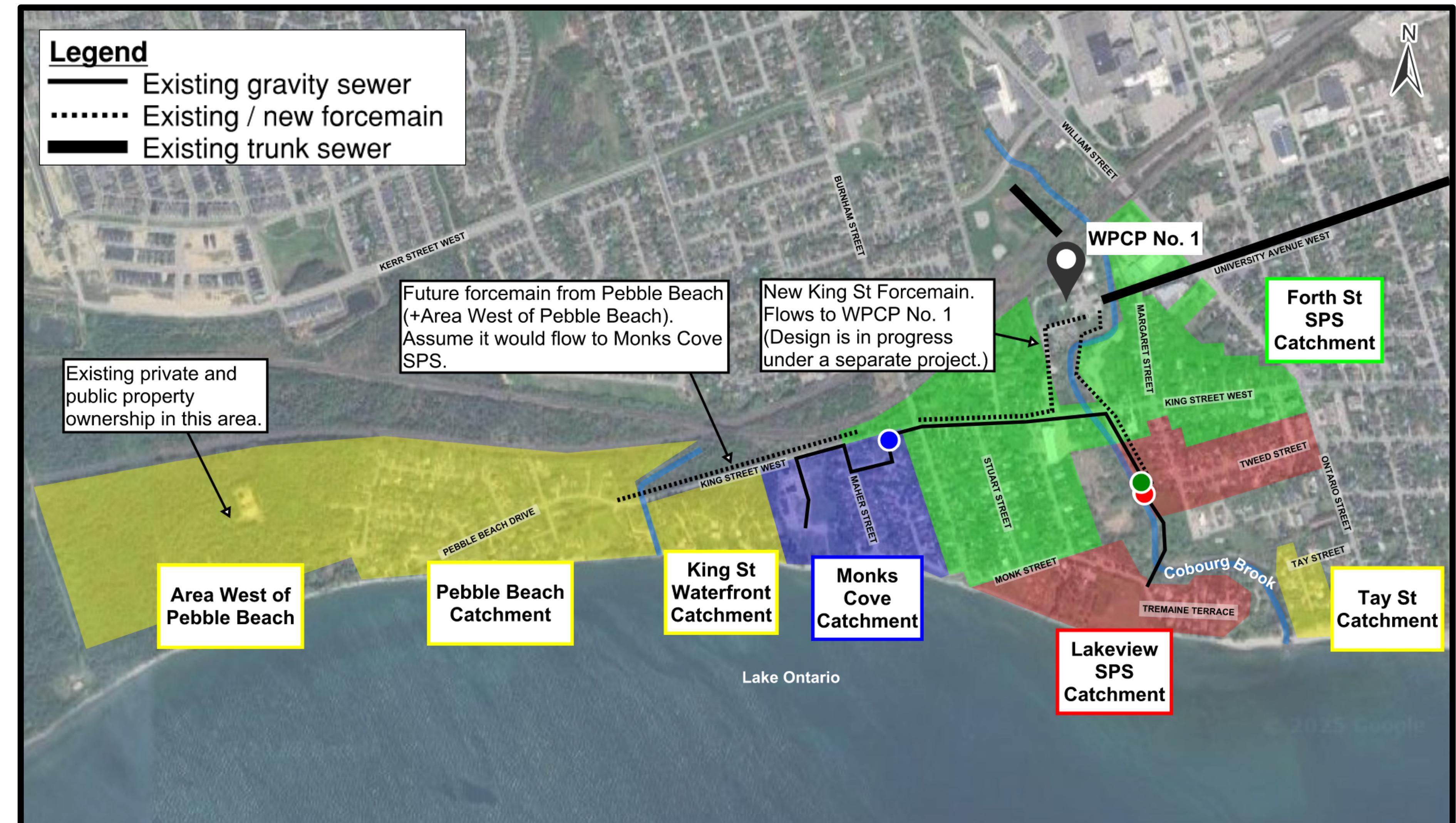
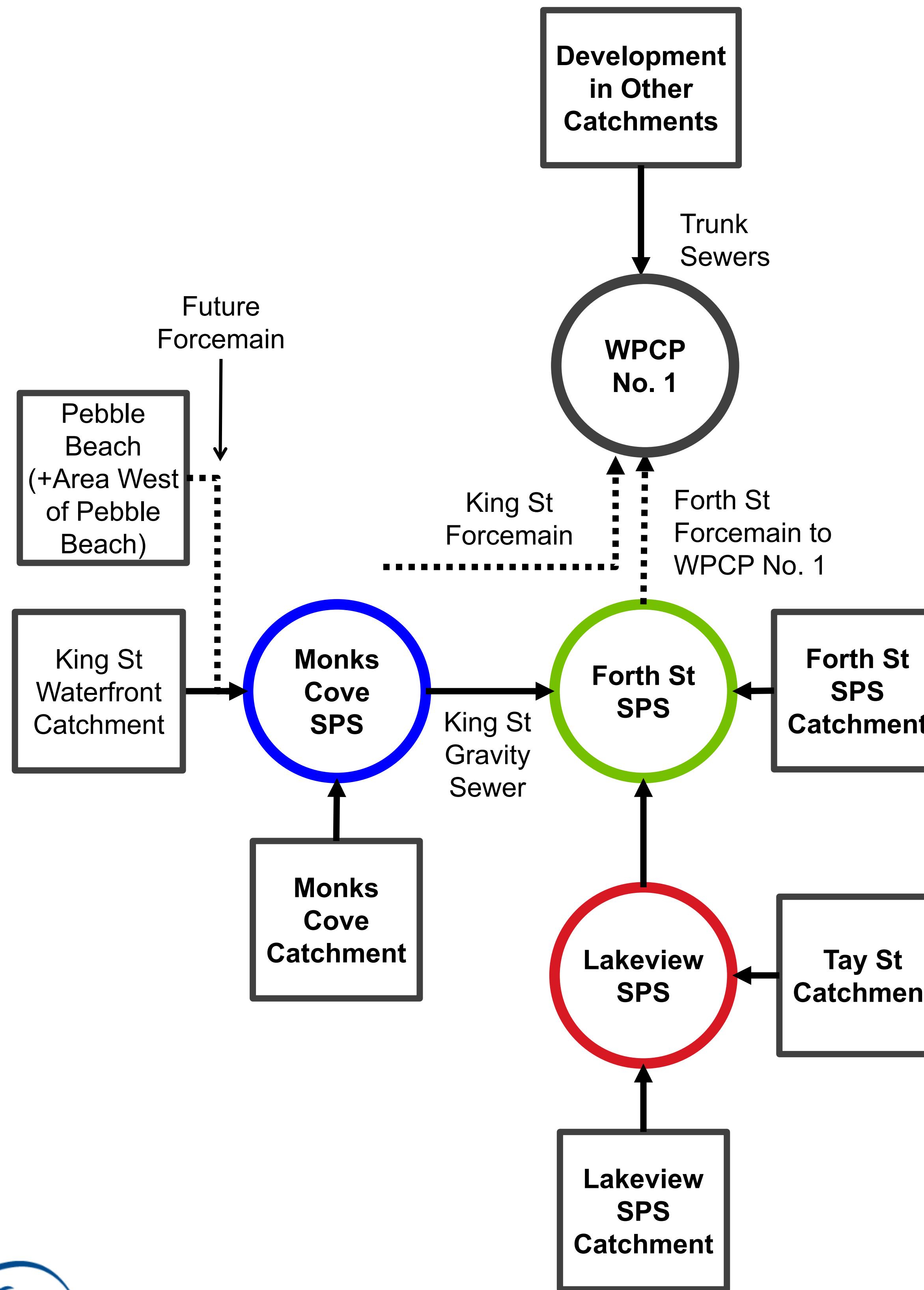
Projected Population Growth

This study assessed the potential population growth within the WPCP No. 1 sewershed if all available land were to be developed and connected to the sewer network (i.e. the “full build-out” scenario).

- The current population within WPCP No. 1 is approximately 13,000 people.
- The future population is estimated to grow to 19,500 people (full build-out).



Future Sanitary Network and Catchments

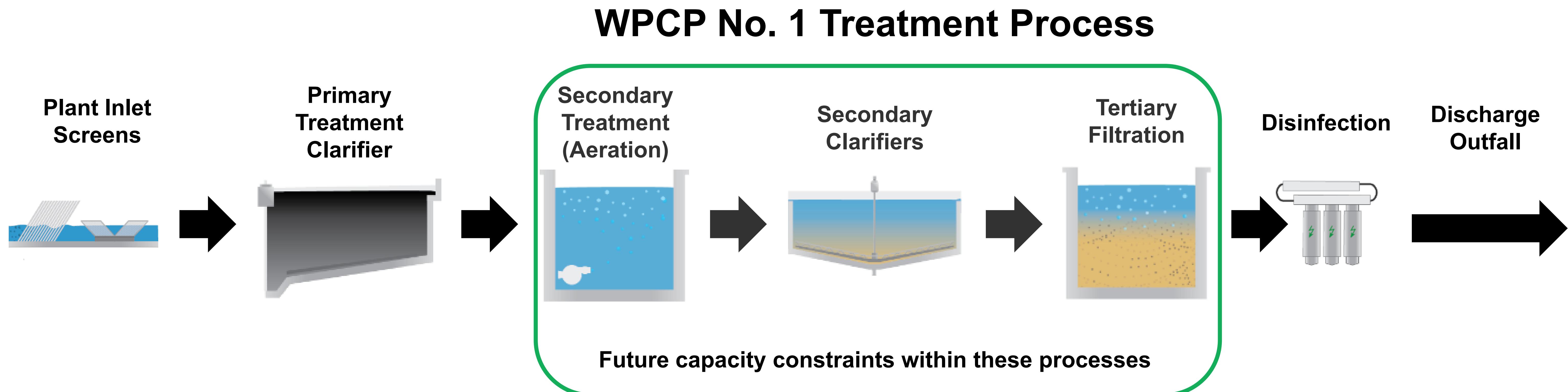


Facility	Current Capacity (L/s)	Estimated Current Peak Flow (L/s)	Estimated Future Peak Flow With Additional Catchments (L/s)
Monks Cove SPS	11.2	4.4	34.1
King St Gravity Sewer	32.6	16.9	46.6
Lakeview SPS	8.3	7	8.5
Forth St SPS	26.5	30.4	61.6

Future WPCP No. 1 Flows

In consideration of the current WPCP No. 1 capacity and anticipated growth within the sewershed, it is estimated that capacity will be exceeded by 2045.

- Current rated plant capacity = 13,640 m³/day
- Current average flow = 8,884 m³/day
- Estimated future average flow by 2051 (full build-out) = 15,921 m³/day (2,281 m³/day exceedance)



Preliminary Problems and Opportunities

Improvements to the WPCP No. 1, SPSs and sewer network are required to address existing deficiencies and future capacity demands.

WPCP No. 1

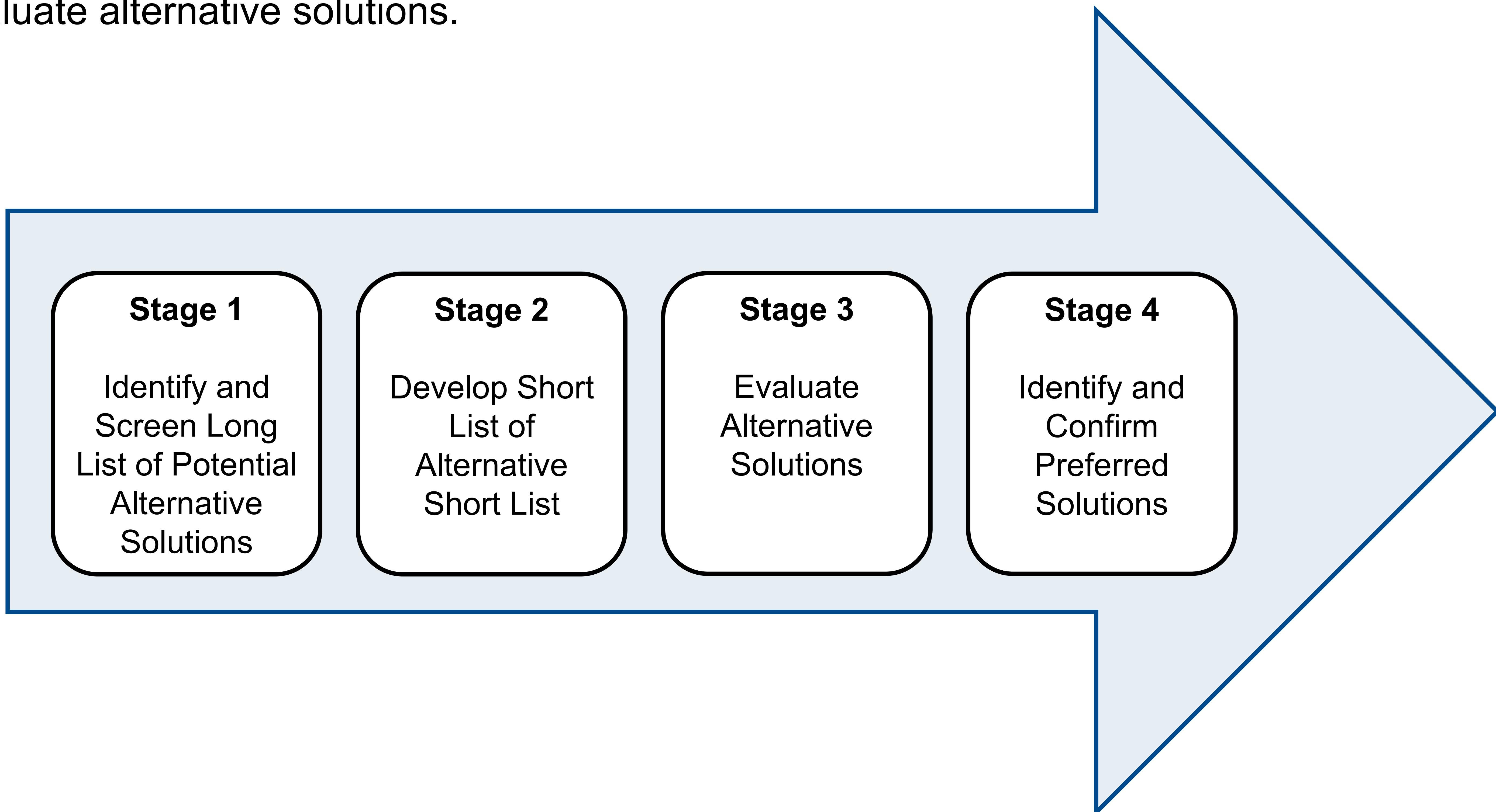
- Future hydraulic flow demand exceeds current plant hydraulic capacity, specifically for secondary clarifiers, aeration and tertiary filtration.
- Limited biological treatment capacity (nitrification) during cold weather conditions.
- Unusually high peak flows have been observed.
- Existing site is within Cobourg Brook floodplain.

Southwest Cobourg Sewer Network and SPSs

- Future Flow demand exceeds current capacity of all three SPSs.
- Age and condition of equipment pose risk of failure.
- Capacity of King St Gravity Main is limited and existing crossing under Cobourg Brook cannot be upgraded.
- Existing SPS wet wells require specific safety processes for pump maintenance.
- Existing SPS sites are space-constrained and surrounded by residential properties.
- Existing sewers in Monks Cove Catchment cannot flow by gravity through existing Cobourg Brook crossing to Forth St SPS.
- Existing Forth St SPS discharge forcemain is in poor condition.
- A number of locations are not currently serviced/connected to the sewer network, including Tay St, King St Waterfront Properties, and the Pebble Beach/New Amherst Study Area 2 locations.

Evaluation Approach

As part of Phase 2 of the MCEA process, a staged approach has been used to identify and evaluate alternative solutions.



Identification and Screening of Alternative Solutions

A long list of **47 potential alternative solutions** were identified and screened at a high-level to eliminate those that did not address the preliminary problems and opportunities or were considered infeasible. A summary of the screening process is available for review on the resources table.

Based on the results of the screening process, a short list of alternative solutions are being carried forward through the formal evaluation process.

WPCP No. 1	Alternative 1 - Do Nothing* Alternative 2 - Expand on Existing Site Alternative 3 –Expand on New Site
Monks Cove SPS	Alternative 1 - Do Nothing* Alternative 2 - Replace Equipment Alternative 3 - Expand on Existing Site Alternative 4 - Eliminate Monks Cove SPS
Lakeview SPS	Alternative 1 - Do Nothing* Alternative 2 - Replace Equipment with Minor Capacity Increase Alternative 3 - Eliminate Lakeview SPS, Merge with Forth St SPS
Forth St SPS	Alternative 1 - Do Nothing* Alternative 2 - Replace Equipment Alternative 3 - Expand on Existing Site Alternative 4 - New SPS at Peace Park Alternative 5 - Accept Flows from Tay St

Preliminary Evaluation Criteria

Technical and Cost

- Construction complexity
- Operations & maintenance complexity
- MECP Effluent Quality Standards
- Future expansion and catchment connectivity needs
- Aging equipment
- Integration with existing utilities
- Flood resiliency
- Adaptability to various flows and cold weather conditions
- Impacts to existing utilities
- Proximity to and ease of integration with existing infrastructure
- Site access
- Cost (capital/construction, operations/maintenance)

Cultural Environment

- Archaeological resources
- Built Heritage Resources and Cultural Heritage Landscapes

Socio-Economic Environment

- Consistency with Local & Provincial planning and policies
- Existing land use
- Future land use
- Noise
- Air Quality

Natural Environment

- Vegetation, trees and natural areas
- Riparian vegetation
- Fish and fish habitat
- Wetlands, surface water and watercourses
- Species at Risk
- Drinking water sources
- Climate change

Alternative Solutions - WPCP

Alternative 1 (Do Nothing)

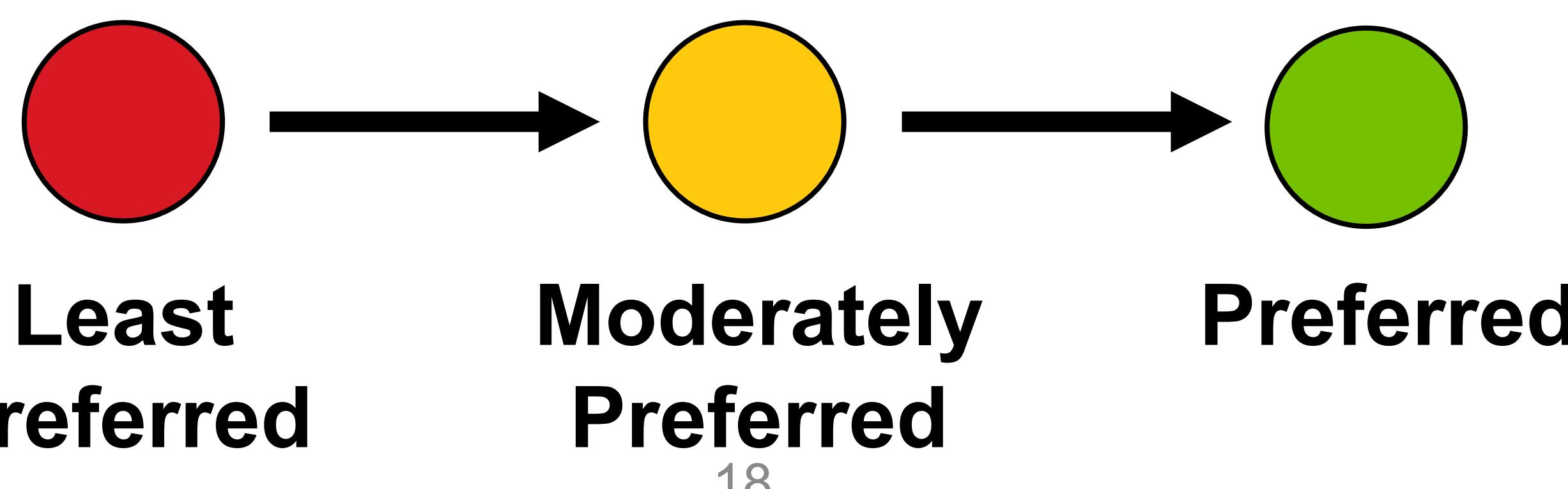
Alternative 2 (Expand on Existing Site)

Alternative 3 (Expand on New Site)



Evaluation of Alternative Solutions - WPCP

Criteria	Alternative 1 (Do Nothing)	Alternative 2 (Expand on Existing Site)	Alternative 3 (Expand on New Site)
Technical and Cost			
Cultural Environment			
Socio-Economic Environment			
Natural Environment			
Conclusion	Not Recommended	Recommended	Not Recommended



Recommended Solution - WPCP

Alternative 2 (Expand on Existing Site) is recommended because it:

- Accommodates future growth, utilizes existing infrastructure and utility connections and does not require extensive land clearing.
- Has a lower potential to impact the natural, socio-economic and cultural heritage environment when compared to other alternatives, and potential impacts can be mitigated.
- Incurs a significantly lower cost when compared to building a new plant on a new site.

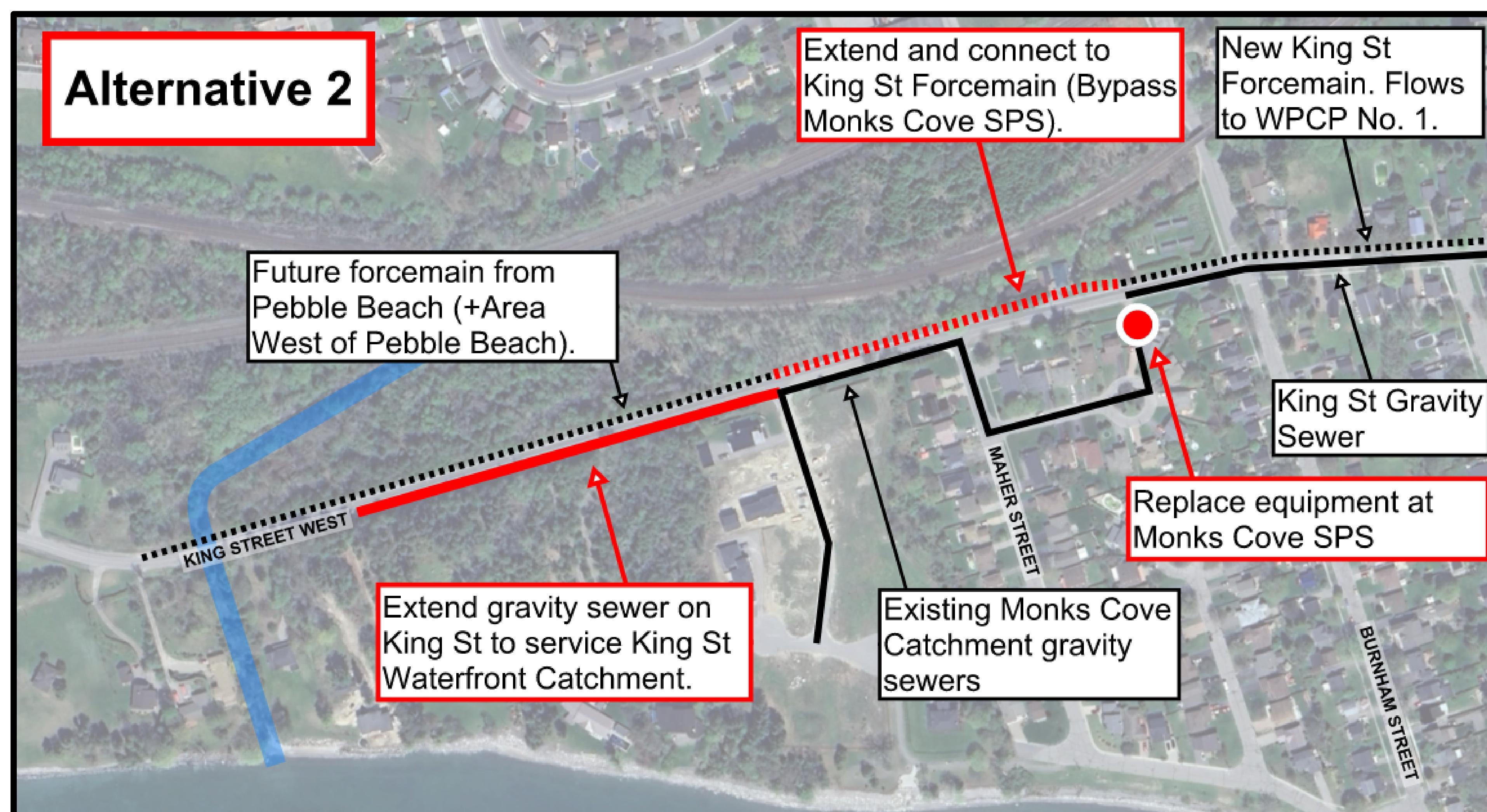


Alternative Solutions – Monks Cove SPS

Alternative 1 (Do Nothing)

Alternative 2 (Replace Equipment)

- Replace equipment
- Future flows from Pebble Beach (+ Area West of Pebble Beach) bypass Monks Cove SPS
- Future flows from King St Waterfront Properties connect to Monks Cove catchment

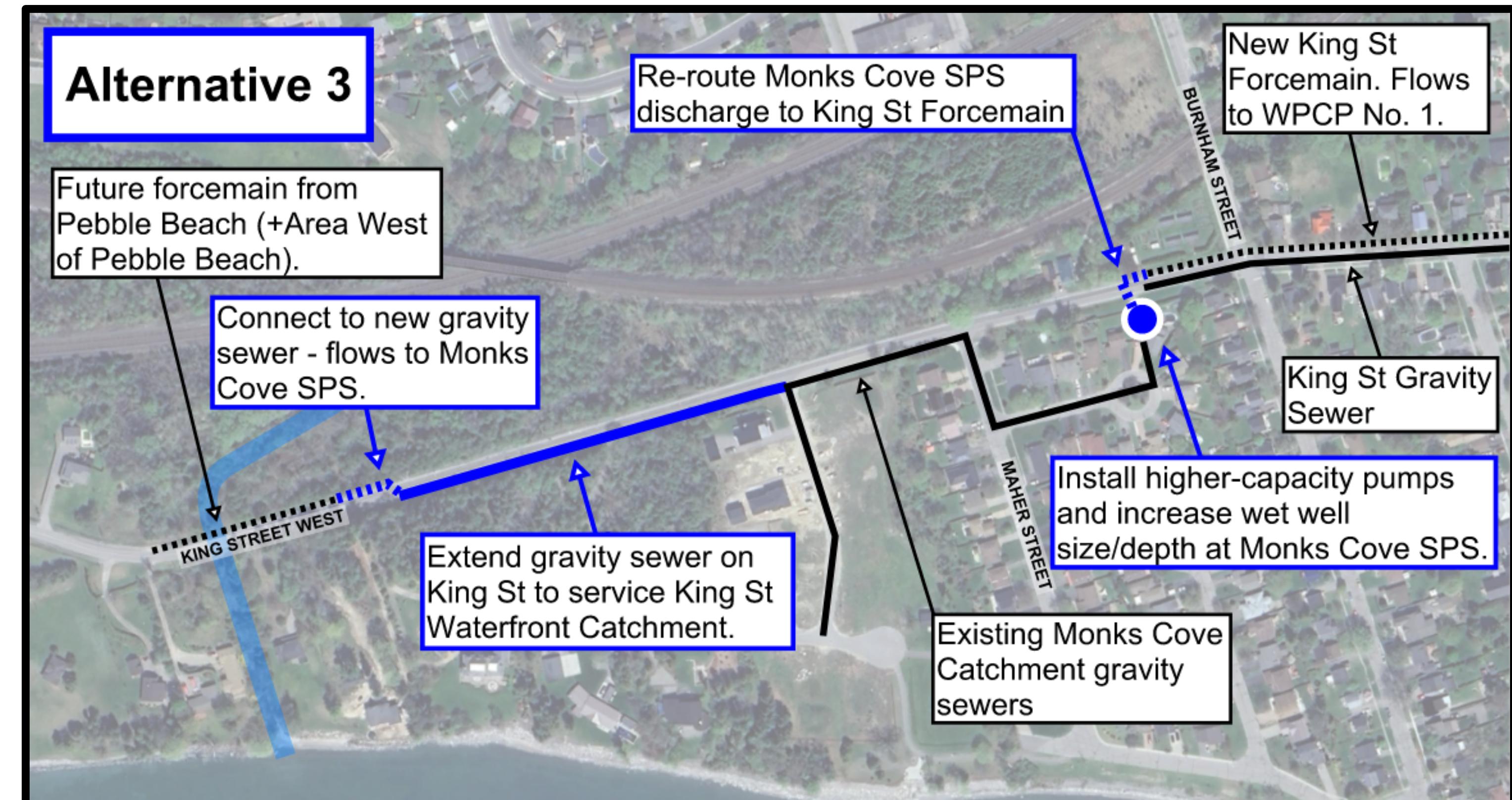


(Alternatives 3 and 4 continued on next slide)

Alternative Solutions – Monks Cove SPS

Alternative 3 (Expand on Existing Site)

- Increase wet well depth and pump capacity
- Future flows from Pebble Beach (+ Area West of Pebble Beach) and King St Waterfront properties connect to Monks Cove Catchment
- Re-route Monks Cove SPS discharge to King St Forcemain



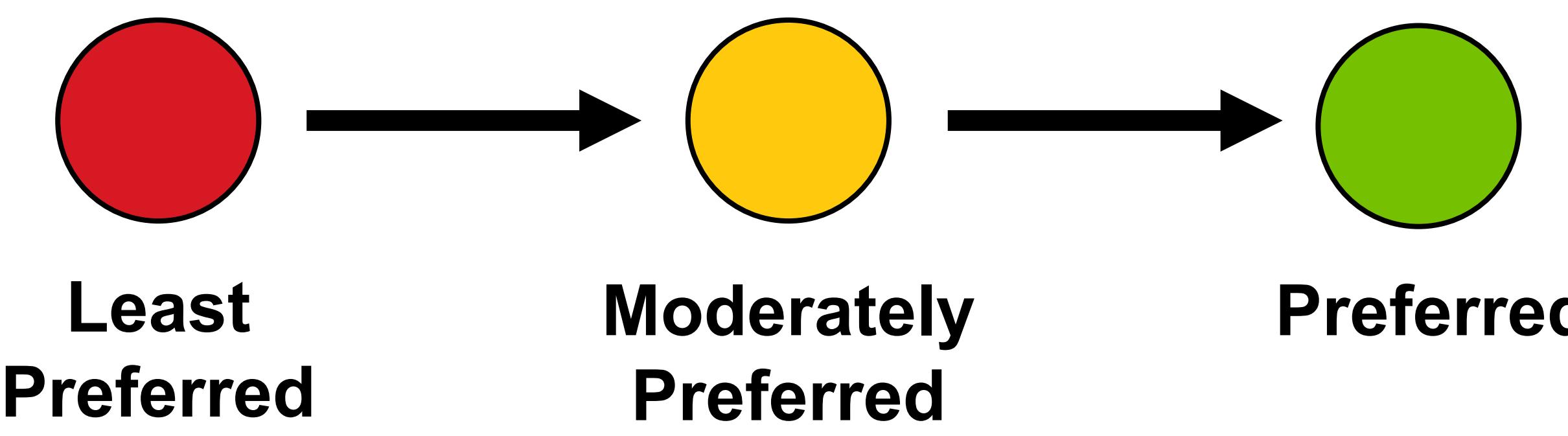
Alternative 4 (Eliminate Monks Cove SPS)

- Decommission and abandon Monks Cove SPS
- Flow by gravity to Forth St SPS
- Replace King St Gravity Sewer at greater depth
- New trenchless crossing under Cobourg Brook



Evaluation of Alternative Solutions – Monks Cove SPS

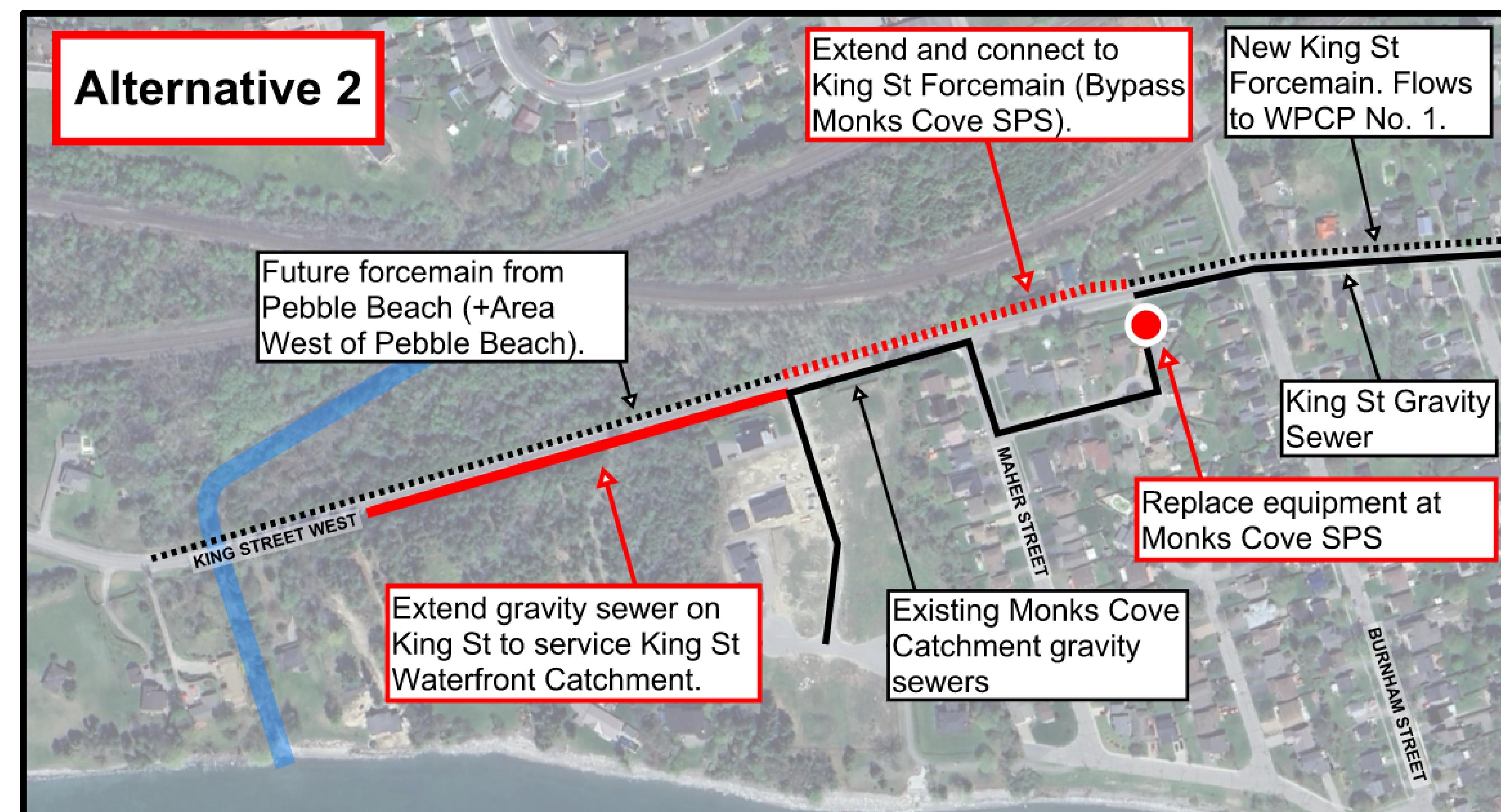
Criteria	Alternative 1 (Do Nothing)	Alternative 2 (Replace Equipment)	Alternative 3 (Expand on Existing Site)	Alternative 4 (Eliminate Monks Cove SPS)
Technical and Cost	Least Preferred	Preferred	Moderately Preferred	Least Preferred
Cultural Environment	Preferred	Moderately Preferred	Least Preferred	Least Preferred
Socio-Economic Environment	Least Preferred	Preferred	Moderately Preferred	Least Preferred
Natural Environment	Least Preferred	Preferred	Preferred	Least Preferred
Conclusion	Not Recommended	Recommended	Not Recommended	Not Recommended



Recommended Solution – Monks Cove SPS

Alternative 2 (Replace Equipment) is recommended because:

- Existing capacity can accommodate future flows from both the Monks Cove and King Street Waterfront Properties catchment areas.
- Expansion is limited by the small size of the site and cost is significantly lower when compared to other alternatives.
- It has a relatively low potential to impact the natural, socio-economic and cultural heritage environment when compared to other alternatives, and potential impacts can be mitigated.
- Future flows from Pebble Beach (+ Area West of Pebble Beach) can bypass the Monks Cove SPS to the new King Street Forcemain (currently under development as part of a separate project).



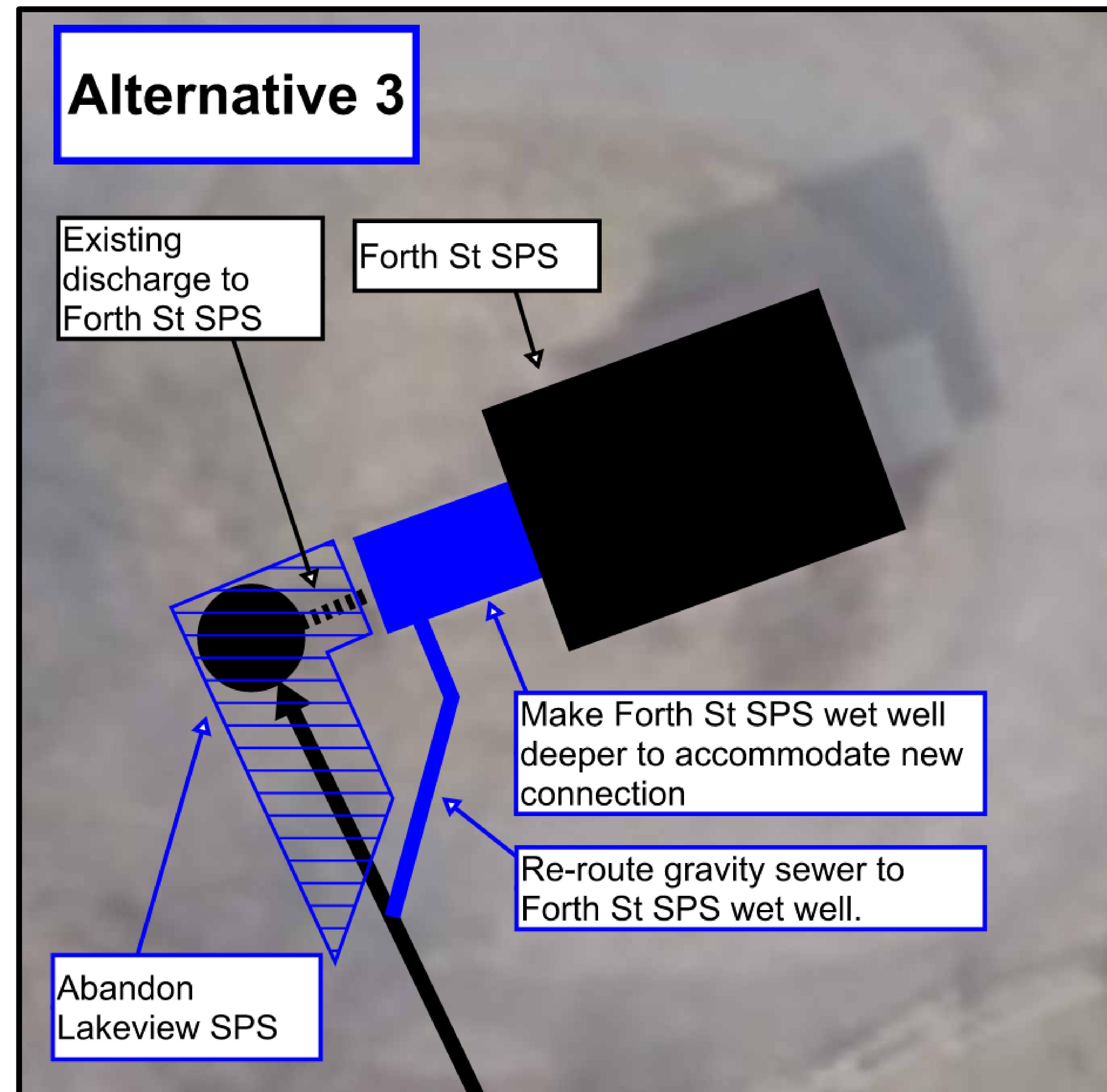
Alternative Solutions – Lakeview SPS

Alternative 1 (Do Nothing)

Alternative 2 (Replace Equipment with Minor Capacity Increase)

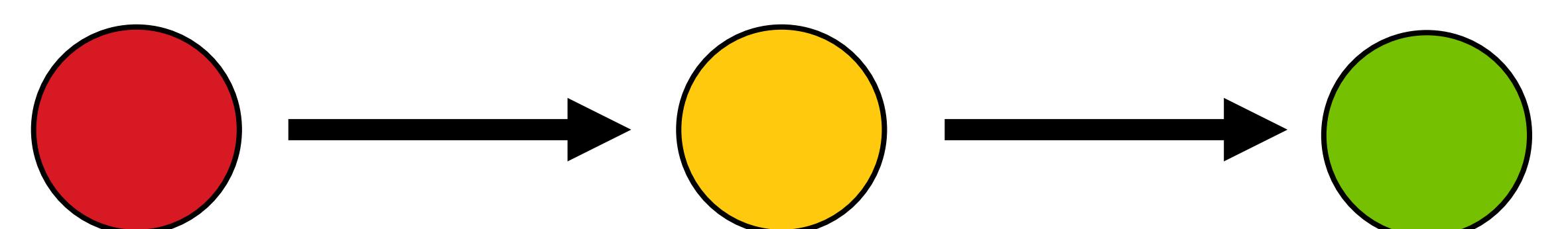
Alternative 3 (Eliminate Lakeview SPS, Merge with Forth St SPS)

- Decommission and abandon Lakeview SPS
- Increase Forth St SPS wet well depth
- Re-route existing Lakeview gravity sewer to Forth St SPS wet well.



Evaluation of Alternative Solutions – Lakeview SPS

Criteria	Alternative 1 (Do Nothing)	Alternative 2 (Replace Equipment with Minor Capacity Increase)	Alternative 3 (Eliminate Lakeview SPS, Merge with Forth St SPS)
Technical and Cost	Yellow	Red	Green
Cultural Environment	Green	Yellow	Yellow
Socio-Economic Environment	Red	Yellow	Green
Natural Environment	Red	Green	Yellow
Conclusion	Not Recommended	Not Recommended	Recommended



Least
Preferred

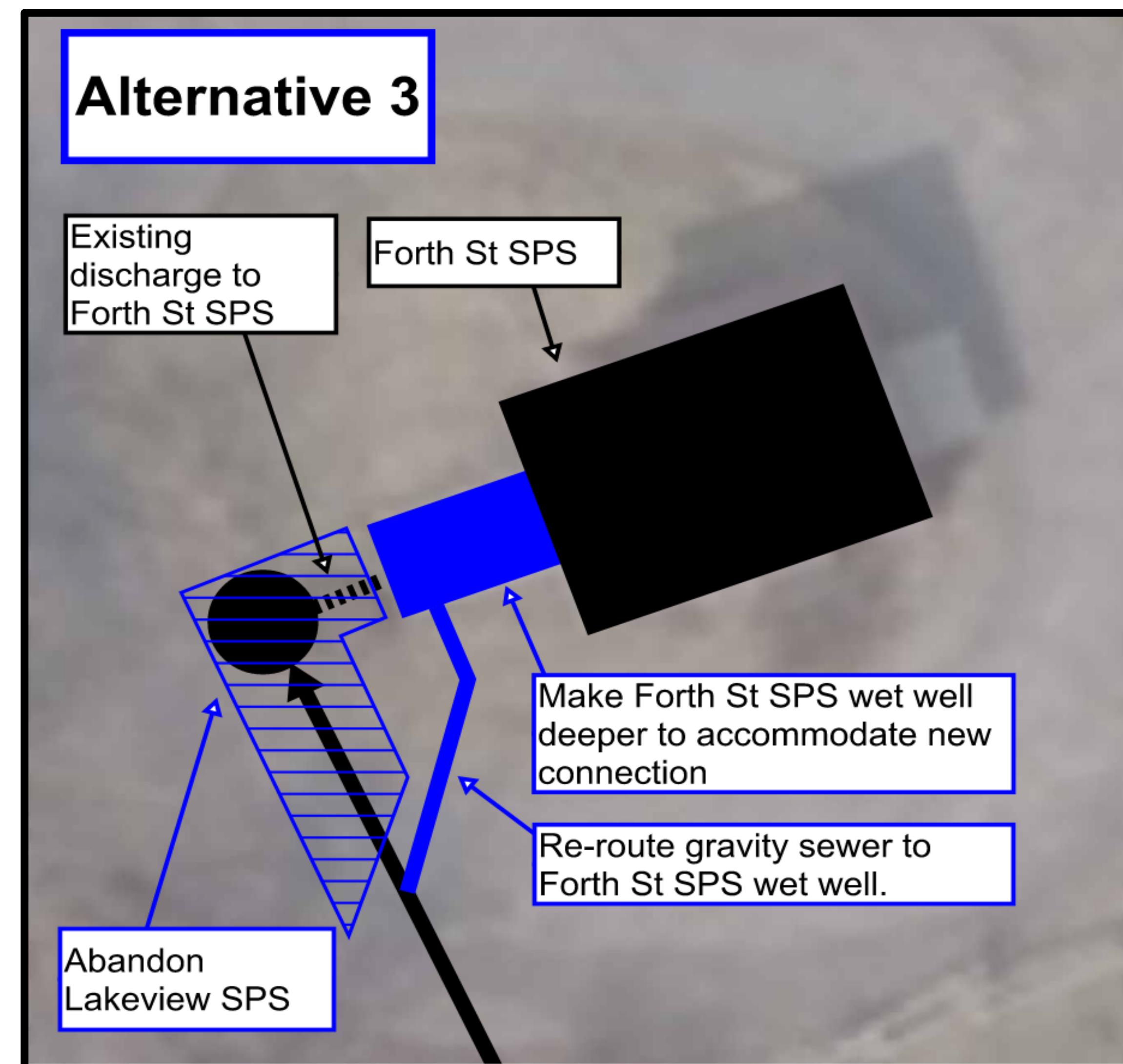
Moderately
Preferred

Preferred

Recommended Solution – Lakeview SPS

Alternative 3 (Eliminate Lakeview SPS, Merge with Forth St SPS) is recommended because:

- Elimination of a pump station results in long-term reduction of operations and maintenance costs, a more simplified network and increased space on-site to expand the Forth St SPS.
- Lowest potential to impact the socio-economic environment when compared to other alternatives as an elimination of an SPS will result in reduced noise pollution and lower potential to produce odours.
- Although Alternative 3 has a higher potential to result in impacts to the natural and cultural heritage environment when compared to other alternatives, impacts can be mitigated.



Alternative Solutions – Forth Street SPS

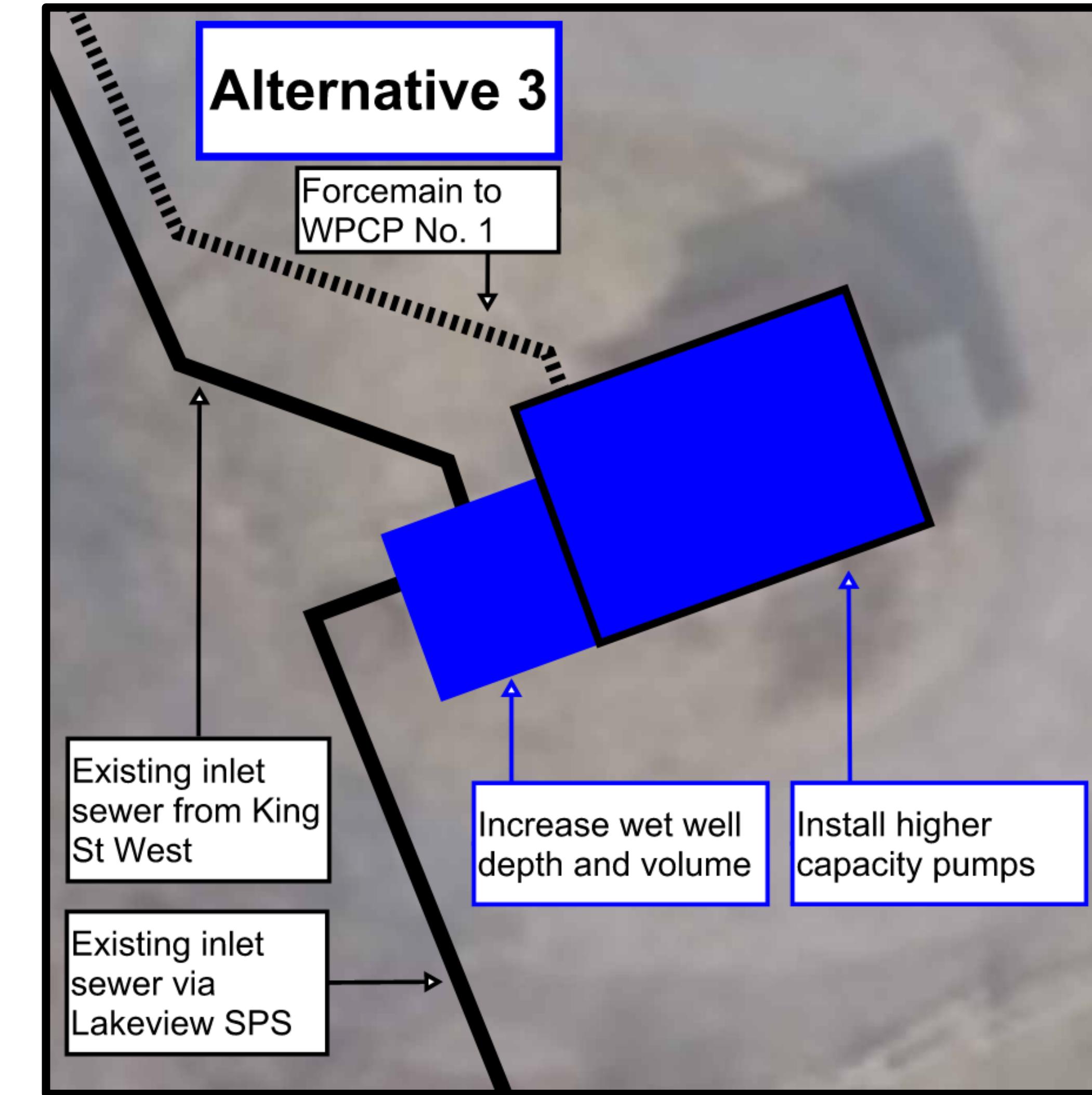
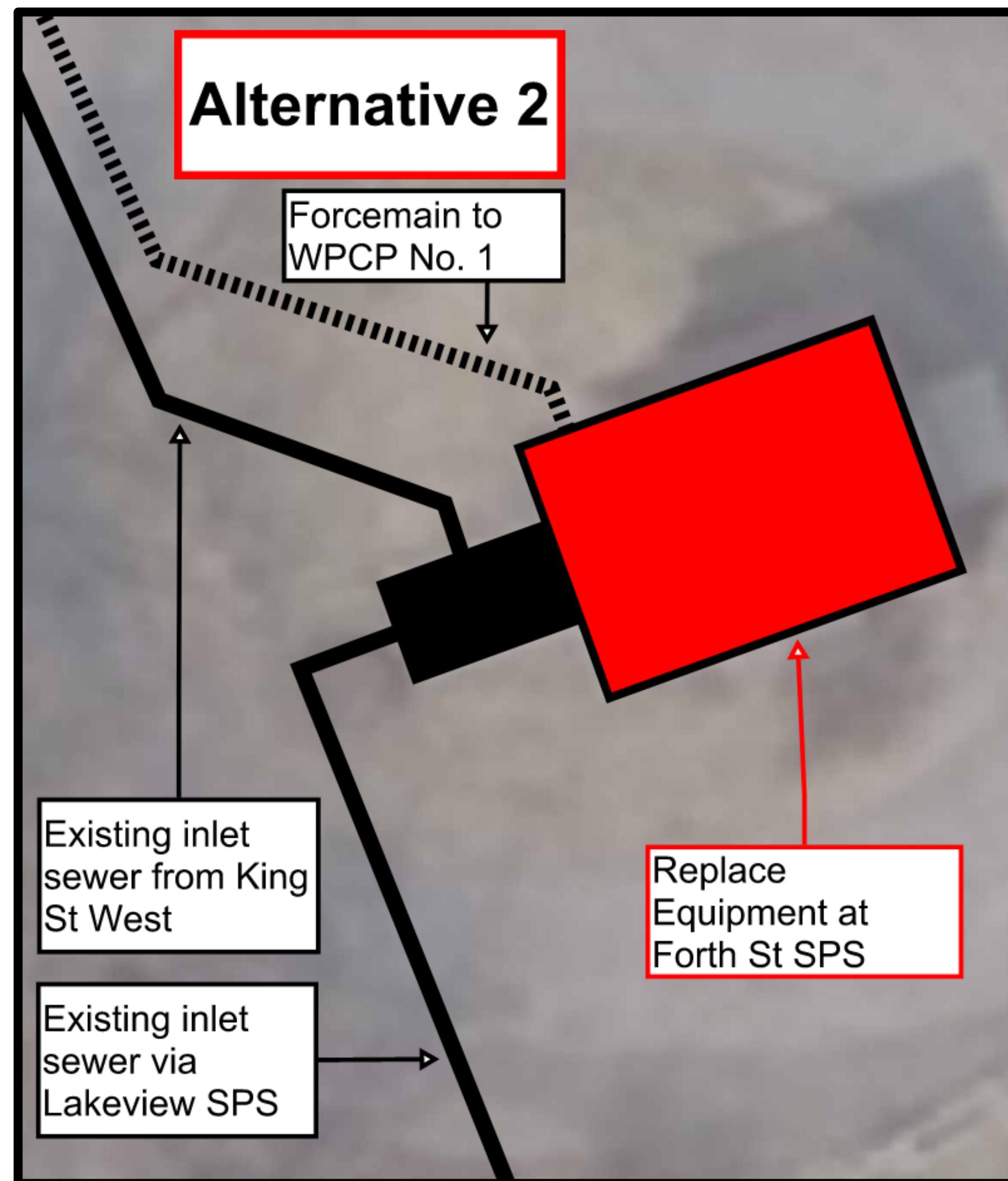
Alternative 1 (Do Nothing)

Alternative 2 (Replace Equipment)

- Like-for-like replacement (no capacity increase)

Alternative 3 (Expand on Existing Site)

- Increase wet well depth and pump capacity



(Alternatives 4 and 5 continued on next slide)

Alternative Solutions – Forth Street SPS

Alternative 4 (New SPS at Peace Park)

- Abandon exiting Forth St SPS and re-route inlets/outlets to new Peace Park location

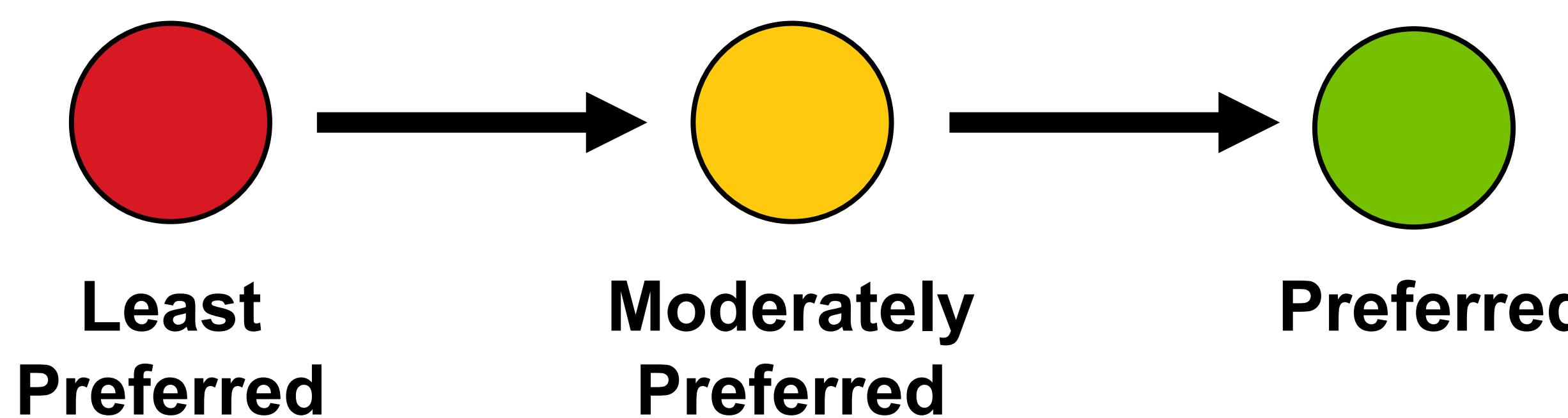
Alternative 5 (Accept flows from Tay St)

- New sewer (gravity or forcemain) through Peace Park to existing sewer.
- This solution is only possible if combined with Alternatives 3 or 4



Evaluation of Alternative Solutions – Forth Street SPS

Criteria	Alternative 1 (Do Nothing)	Alternative 2 (Replace Equipment)	Alternative 3 (Expand on Existing Site)	Alternative 4 (New SPS at Peace Park)	Alternative 5 (Accept Flows from Tay St)
Technical and Cost	Yellow	Yellow	Yellow	Red	Green
Cultural Environment	Green	Green	Yellow	Red	Red
Socio-Economic Environment	Red	Red	Green	Yellow	Green
Natural Environment	Red	Red	Green	Red	Yellow
Conclusion	Not Recommended	Not Recommended	Recommended	Not Recommended	Recommended (Not a standalone solution)



Recommended Solution – Forth Street SPS

Alternative 3 (Expand on Existing Site) and Alternative 5 (Accept flows from Tay St) are recommended because:

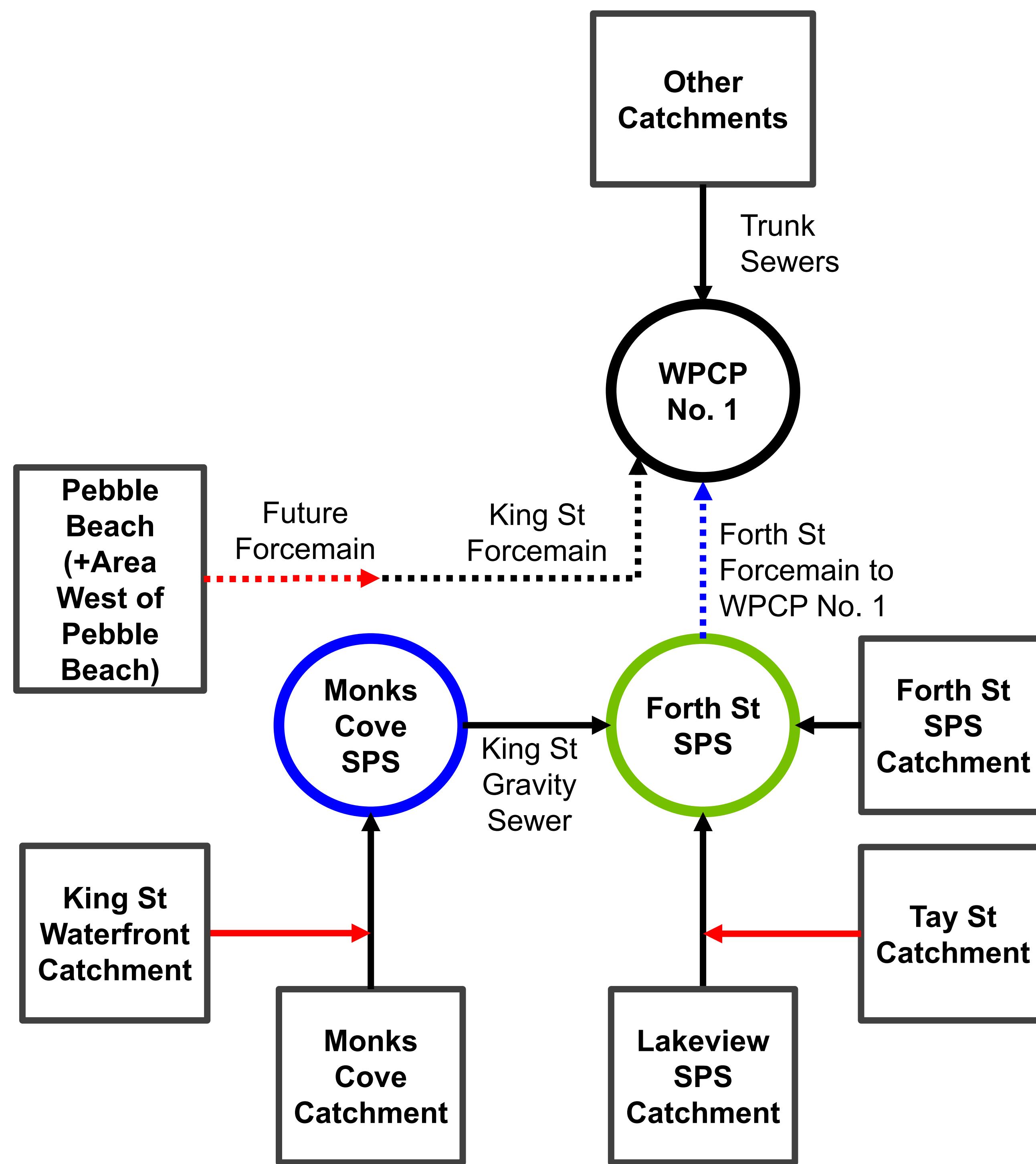
- A capacity increase at Forth St SPS is required to accommodate future flows.
- Expanding on the existing site makes use of existing infrastructure and utility connections, does not encroach on a public park, and is less costly than constructing a new SPS.
- Tay Street Catchment properties can be serviced by an expanded Forth St SPS.
- Environmental impacts of construction near Cobourg Brook can be mitigated.



The replacement of forcemain to WPCP No. 1 is also required as part of this solution (alignment to be determined during detailed design in the future).

Recommended Solutions

The recommended set of solutions are shown on this slide. Locations and alignments (routes) are conceptual and will be confirmed during detail design.



Facility	Current Capacity	Proposed Minimum Capacity
Monks Cove SPS	11.2 L/s	11.2 L/s
Lakeview SPS	8.3 L/s	SPS Removed
Forth St SPS	26.5 L/s	34.9 L/s
WPCP No. 1	13,640 m³/day (average)	15,921 m³/day (average)

Legend

- Existing gravity sewer
- Existing / new forcemain
- Existing trunk sewer
- Potential gravity sewer
- Potential forcemain
- Potential forcemain (alignment TBD)

Preliminary Implementation Plan

Short-Term (2-5 years)	Medium-Term (5-20 years)	Long-Term (20+ years)
<p>Expand Forth St SPS (pumps and wet well) + New Force main Alignment</p> <p>Required as Forth St SPS is currently operating at capacity and condition of existing forcemain is unknown.</p>	<p>New sewer/force main to service Tay Street catchment</p> <p>If/when properties wish to connect to sewer system (currently on private septic systems/private pumps).</p>	<p>Expand WPCP No. 1 on Existing Site</p> <p>WPCP No. 1 is expected to reach capacity by approximately 2045; however subject to rate of development and should be monitored.</p>
<p>Eliminate Lakeview SPS and re-route connections to Forth St SPS.</p> <p>To be completed in tandem with Forth St SPS expansion.</p>	<p>Gravity sewer to service King Street Waterfront</p> <p>If/when properties wish to connect to sewer system (currently on private septic systems).</p>	
<p>Replace equipment at Monks Cove SPS</p> <p>Required as existing equipment requires replacement.</p>	<p>Connect Pebble Beach (+ Area West of Pebble Beach) to King Street Force main</p> <p>If/when a new SPS is constructed within the Pebble Beach area to service the catchment.</p>	

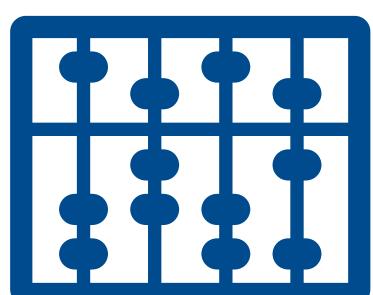
Next Steps



- Review and consider feedback received



- Confirm problems and opportunities and recommended solutions



- Identify and evaluate alternative design concepts for the preferred WPCP 1 solution



- Host Public Information Centre 2 to present recommendations and gather additional feedback

Thank you for participating!

Your feedback is very important to us! There are several ways for you to provide your comments:



Share your comments with us! Please complete and submit a comment form.



Contact the study team!

Terry Hoekstra, C.E.T., rcca

Deputy Director, Engineering

The Corporation of the Town of Cobourg

Tel: (905) 372-9971 ext. 4371

Email: thoekstra@cobourg.ca

Derryn Bracey, PMP

Project Manager

Stantec Consulting Ltd.

Tel: (416) 542-6061

Email: derryn.bracey@stantec.com

We would appreciate receiving any comments or questions that you may have by **Friday, February 27, 2026**.

For additional study information, please visit the study website:

<https://www.cobourg.ca/our-government/plans-reports-and-studies/>