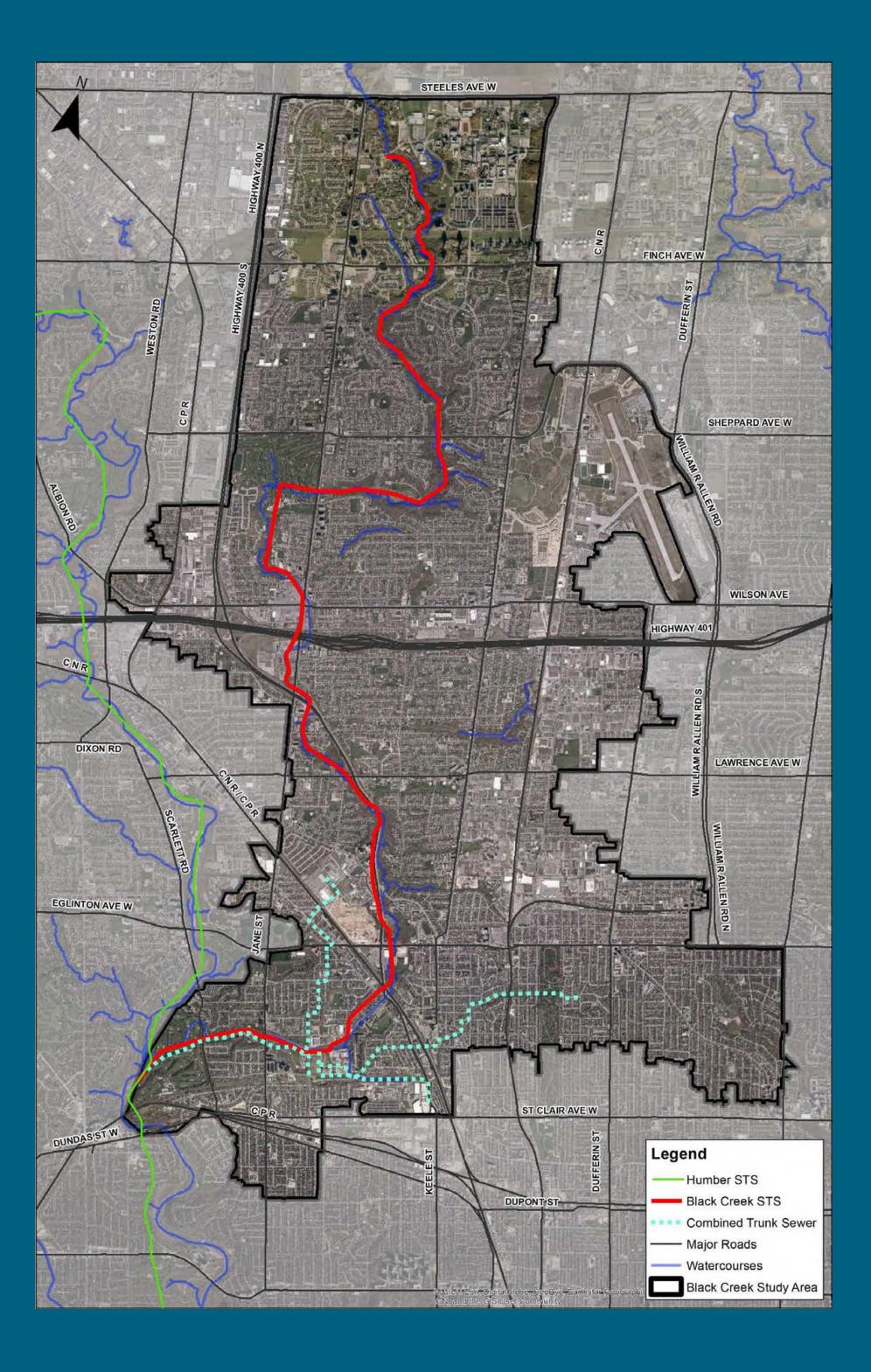
### Welcome **Black Creek Sanitary Drainage Area** Servicing Improvements Municipal Class Environmental Assessment Study Public Consultation Drop-In Event #3

Date: Wednesday December 11, 2019

Time: 6:00 pm to 8:00 pm

Please sign in to receive project updates on the study. Please provide your comments by completing a comment sheet and placing it in the box or forwarding it to the Project Team by January 8, 2020.





### Black Creek Sanitary Drainage Area Servicing Improvements Class **Environmental Assessment Study**

**Black Creek Sanitary Trunk Sewer (STS) system.** 

- The Basement Flooding Protection Program is additionally reviewing basement flooding issues at the local sewer and street level.
- The preferred solution will work in conjunction with the Basement Flooding Protection Program solutions and the TRCA riverine flooding improvements to alleviate surface and basement flooding.

- The purpose of this Environmental Assessment Study is to recommend improvements for the
- This Environmental Assessment Study is to address capacity constraints of the existing Black Creek STS and the three Combined Trunk Sewers that are connected to the Black Creek STS

## Purpose of Today's Event

At Public Consultation Drop-In Event #1 held in 2016 the study purpose and objectives were presented. At Public Consultation Drop-In Event #2 held in spring 2019 the evaluation of the alternative solutions and a description of the recommended alternative solution were presented.

### The purpose of today's event (Public Consultation Drop-In Event #3) is to provide information, and receive feedback on the following:

- Evaluation of the design concepts which were developed for the  $\bullet$ preferred solution
- Recommended design concept

### We Want to Hear From You

- Sign in at the attendance register
- Review the display panels, recommended design concept and shaft locations
- Ask questions/provide input to City Staff and the engineering consultant
- Complete a comment form





## Study Purpose and Objectives

The purpose of this study is to complete a detailed trunk sewers capacity analysis of the Black Creek Sanitary Drainage Area, identify issues and develop a plan to achieve the following objectives:

- backup in the local sewers
- $\bullet$
- Reduce stormwater Inflow and Infiltration (I&I) into the Black Creek STS
- Service projected population to the year 2041 and beyond

The study purpose is refined into a problem statement which guides the study and assists to develop the solutions.

### TORONTO

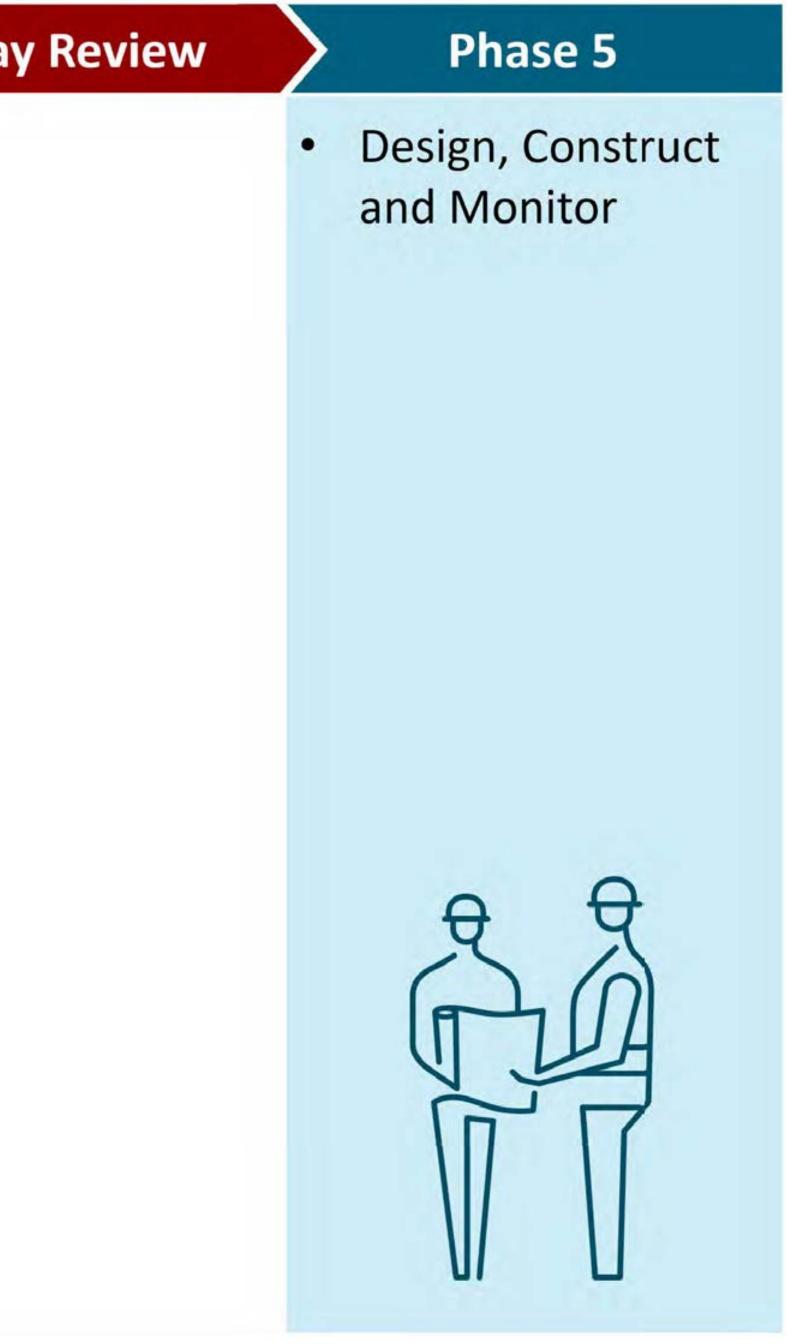
Reduce sewer water level in the existing Black Creek STS during wet weather events to prevent sewer

Reduce combined sewer overflows to Black Creek watercourse from the three combined trunk sewers

## Municipal Class Environmental Assessment Process – Schedule C

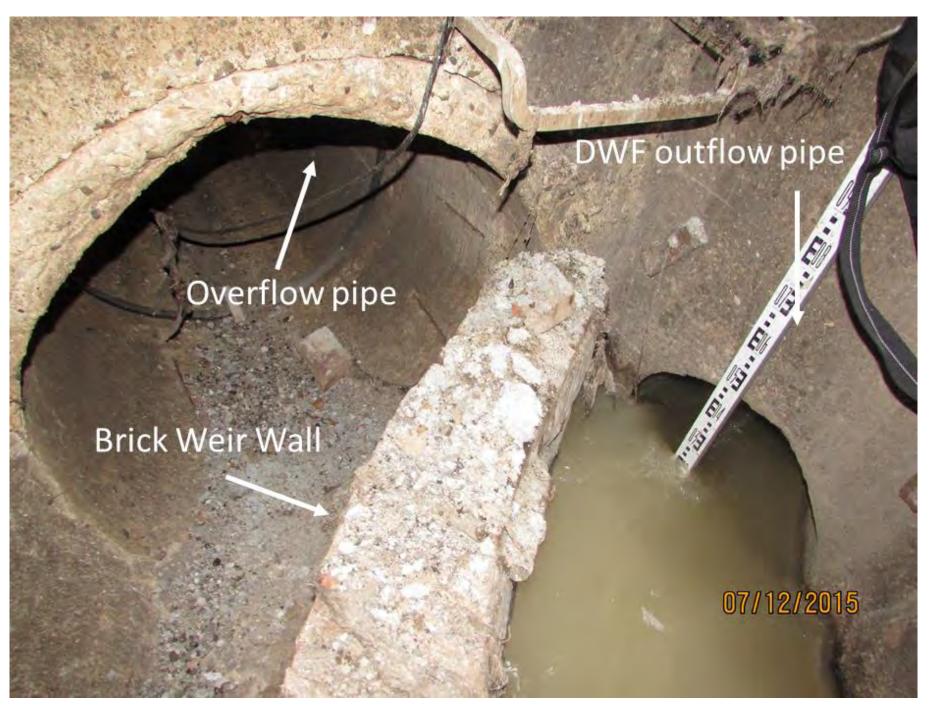
### • The mandated process we are following to complete this project is described here:

Phase 1	Phase 2	Phase 3	Phase 4	30 Day
<ul> <li>Identify the Problem</li> <li>Consult with Public, Agencies, Stakeholders</li> <li>Public Consultation Drop-In Event #1 April 2016</li> </ul>	EAs and existing conditions	<ul> <li>Identify Design Concepts</li> <li>Consult with Public, Agencies, Stakeholders</li> <li><u>We are here:</u> Public Consultation Drop-In Event #3 December 2019</li> <li>Select the Preferred Design Concept</li> </ul>	<text></text>	



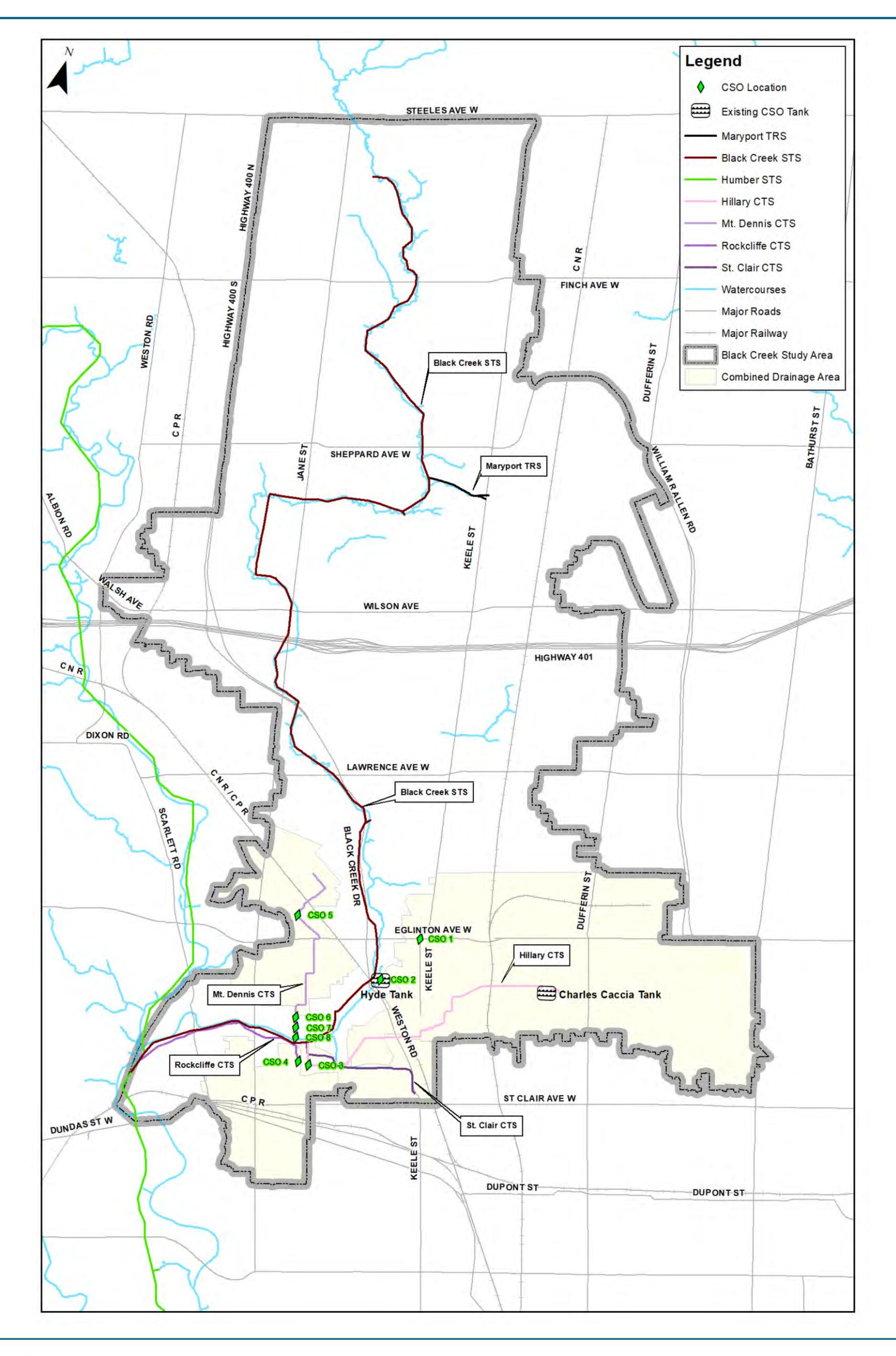
## Black Creek Sanitary Trunk Sewer System and Drainage Area

- The existing Black Creek STS was built in the 1960s, is approximately 15 km long, and is located from Finch Avenue West to Scarlett Road
- The Black Creek STS services a sanitary drainage area of 5,500 hectares (ha), the equivalent of approximately 4,000 soccer fields
- The Black Creek STS services a population of 351,000 (2016 population, approx. 75% residential, 25% employment)
- 2041 population projection is 418,500 (approx. 75% residential, 25% employment), or about a 14% increase
- 80% of the sanitary drainage area has separated local sanitary and storm sewers; 20% has local combined sewers
- 3 combined trunk sewers that connect to the Black Creek STS
- 8 combined sewer overflow structures
- 3 storage facilities



Overflow structure of the Mt. Dennis combined trunk sewer

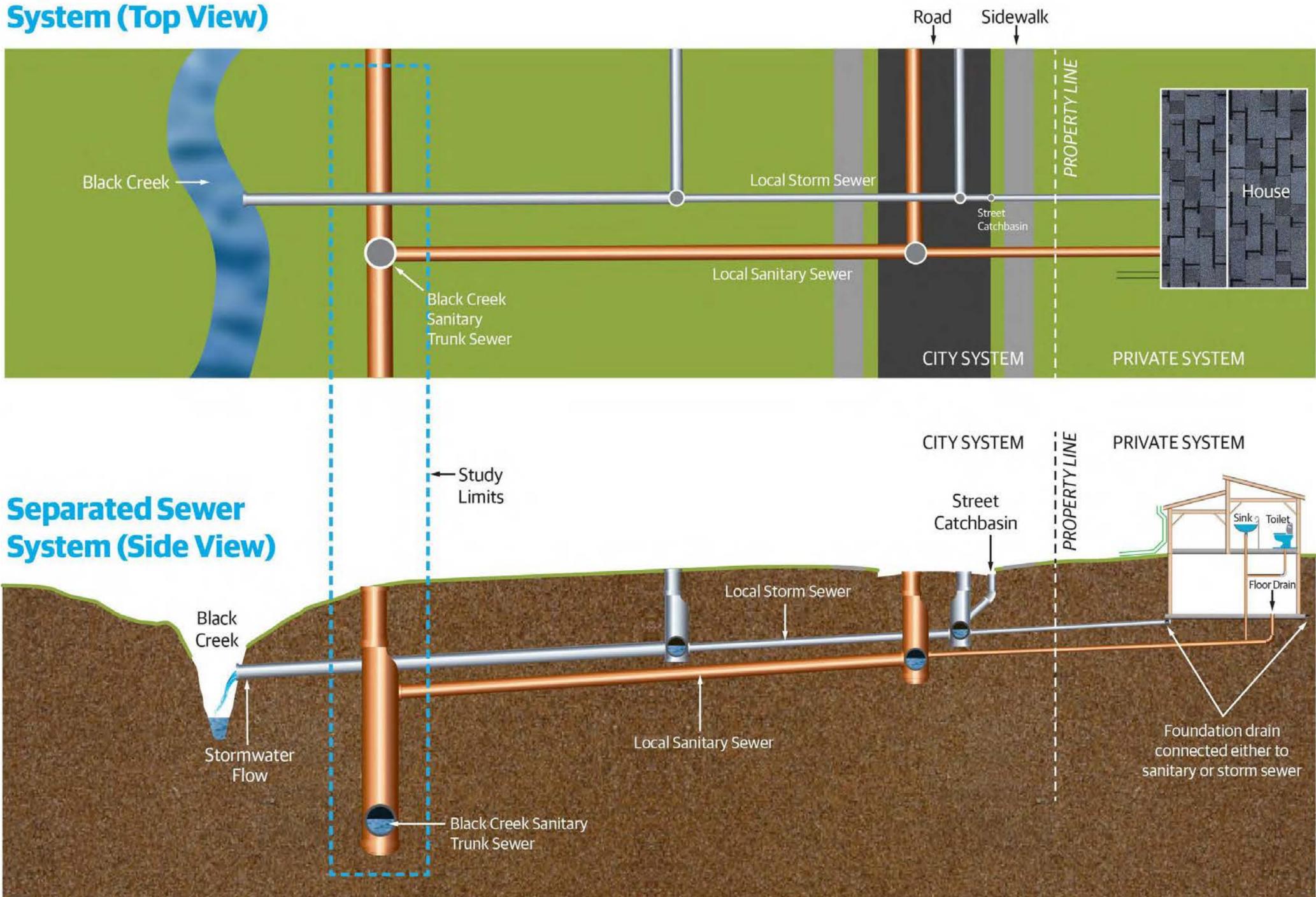
## Study Area

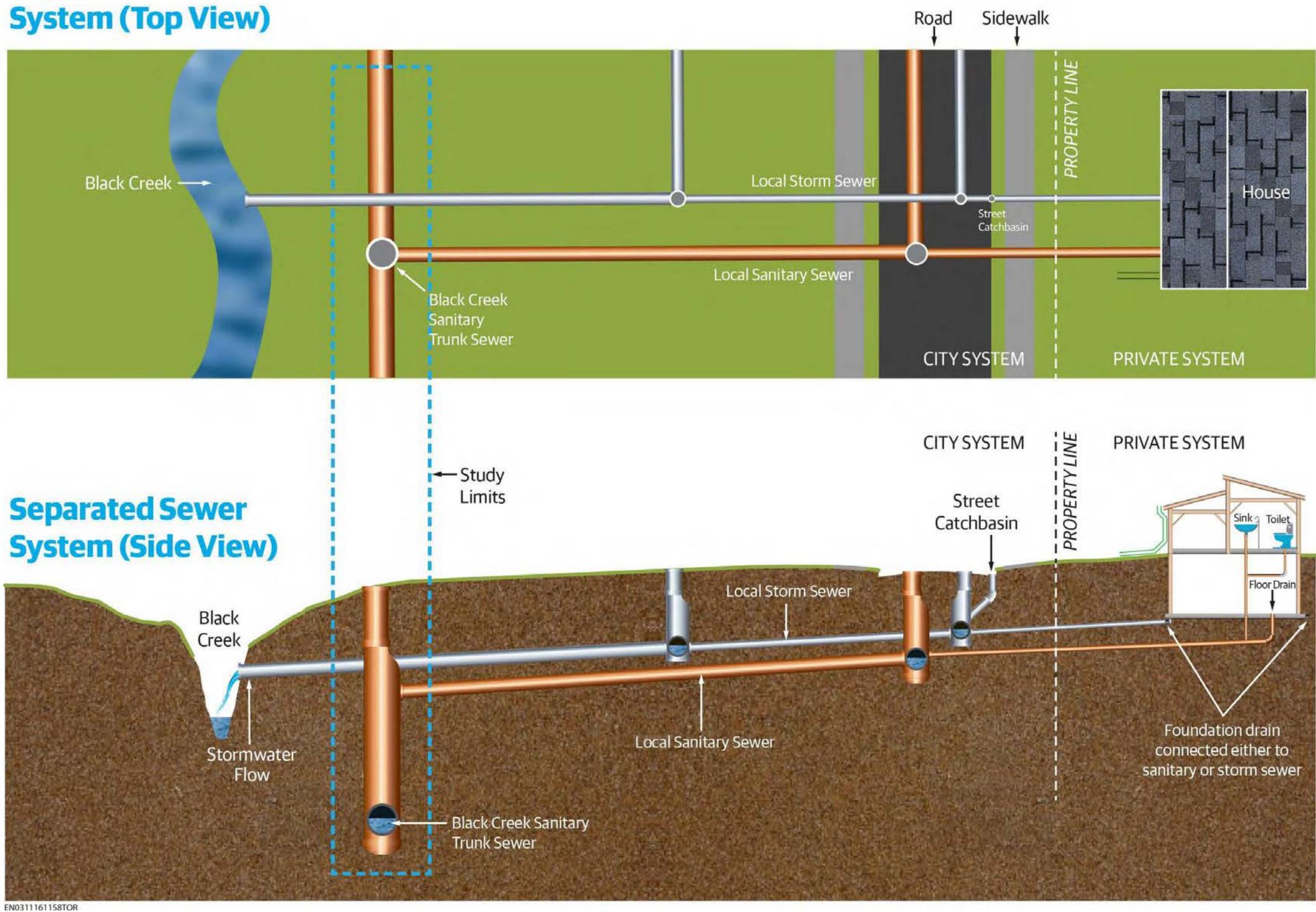




### Separated Sewer System

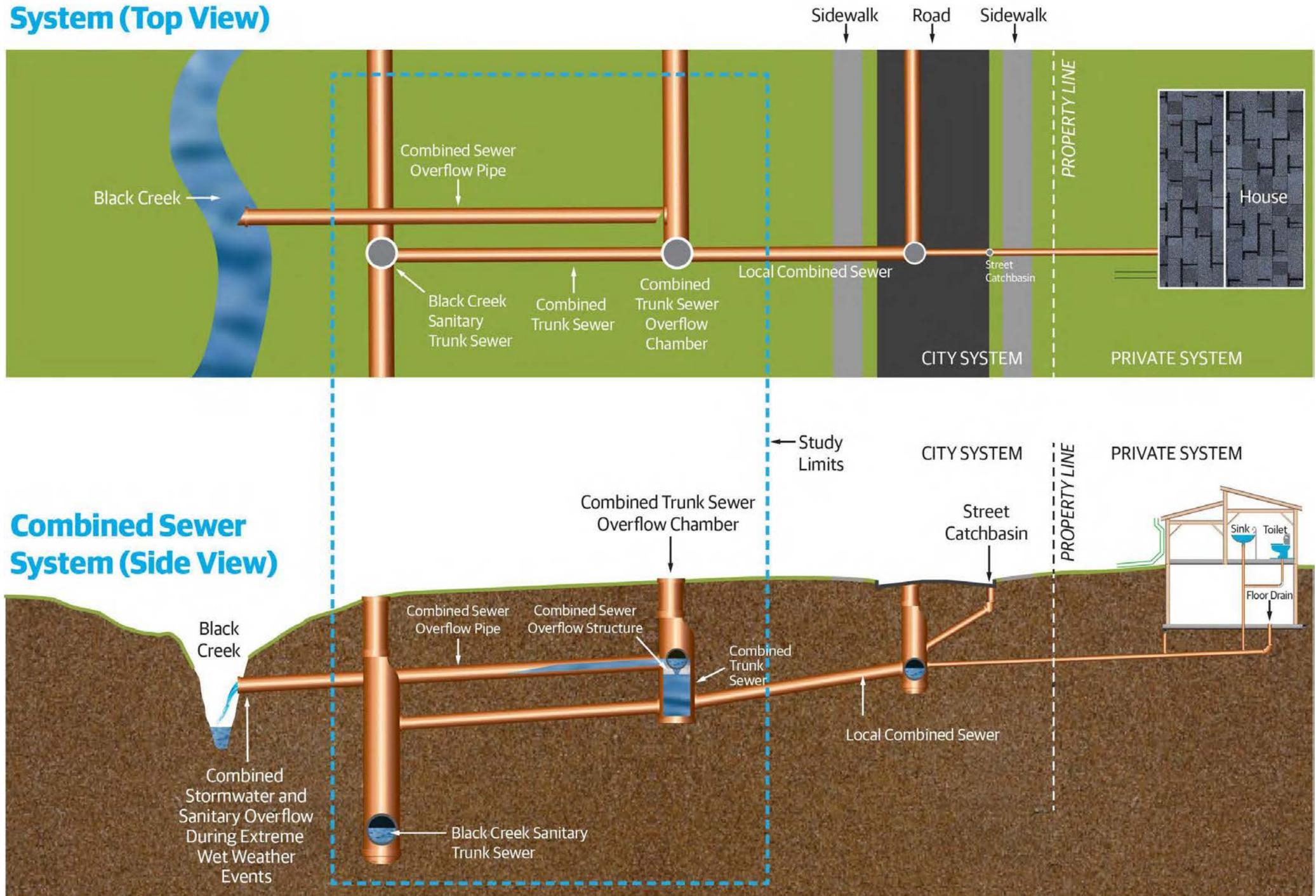
### **Separated Sewer**

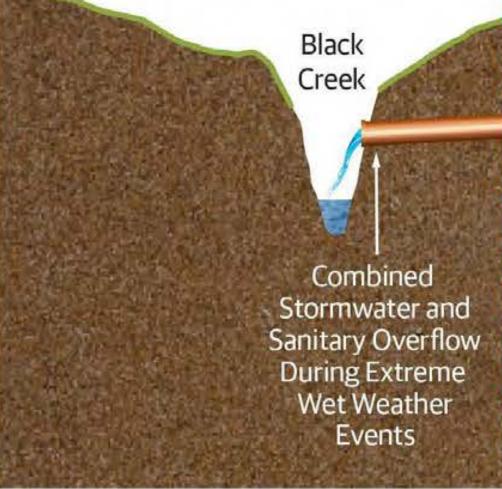




### Combined Sewer System

### **Combined Sewer**





EN0311161158TOR

## **TORONTO**

### 9

## Phase 1: Problem Identification

- High water level in the Black Creek STS
  - High water level in the Black Creek STS occurs during wet weather events. The excess flows may cause backup into local sewer potentially causing basement flooding or cause spill in the low lying areas.
- Combined Trunk Sewers Overflow
  - control flow going to the Black Creek STS.
- Stormwater inflow & infiltration to the Black Creek STS  $\bullet$ 
  - Inflow and infiltration (I&I) are terms used to describe the ways that groundwater and stormwater enter the sanitary sewer system.
  - sewer system and local sanitary sewers due to rainfalls
- Future population growth constraints lacksquare
  - margin consideration due to Climate Change

## RONTO

Three combined trunk sewers carry a mixture of stormwater and domestic sewage. During rainstorms excess flow are discharged to the Black Creek watercourse to

Key sources of inflow to the Black Creek STS are from leaking maintenance hole covers; creek water backing up to the trunk sewer; excess flows from combined



Example of sanitary trunk sewer overflow during a wet weather event

Population increases will put strain on the existing system capacity. Capacity must be available to service population projections to 2041 and beyond with some safety

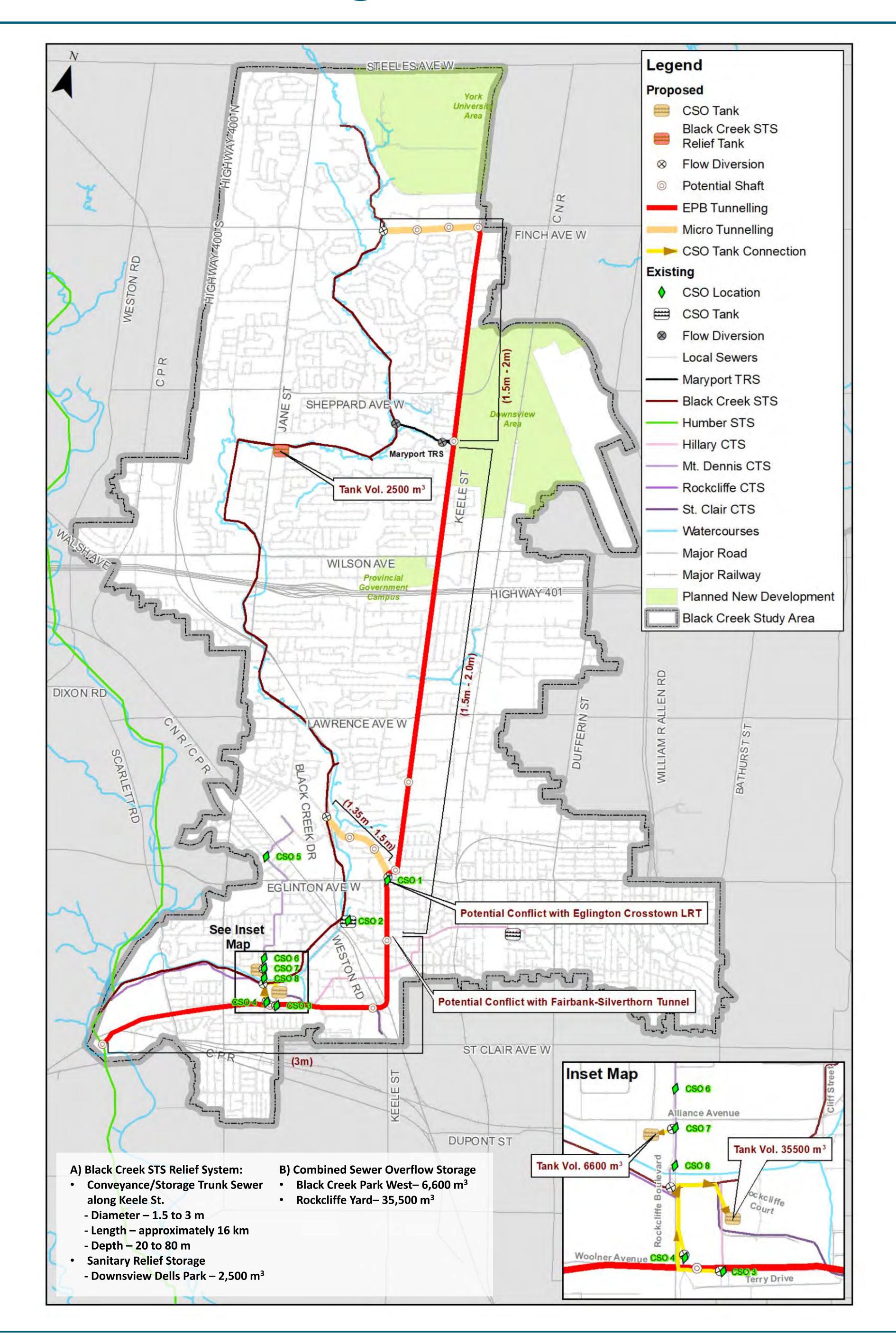
## Phase 2: Evaluation of Alternative Solutions

- Reviewed existing conditions 1.
- **Developed Design Criteria** 2.
- 3. Identified long-list of potential solutions:
  - I&I control measures (e.g. replacement of maintenance hole covers; installation of backwater valves, sewer separation, control excessive flow from the combined sewer system, and I&I reduction in local sanitary sewers)
  - new relief trunk
  - new storage facilities
  - diversion of flows
- 4. Developed a short-list of feasible alternatives
- 5. Assessed the short-listed of alternatives in detail
- 6. Selected a Recommended Solution

## DNTO



## Phase 2 Preferred Alternative – Keele Street Alignment





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## Phase 3: Conceptual Design Options

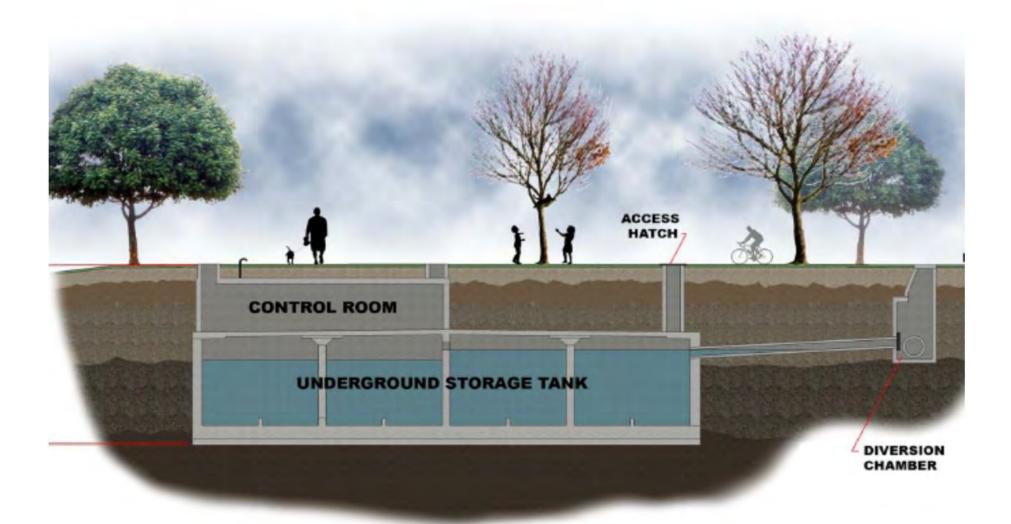
- Recommended alternative consists of 4 major design components: Inflow and Infiltration (I&I) and Wet Weather Flow Reduction (WWF)
- 2. Sanitary Relief Trunk / Diversion Design Concepts
  - Option 1: Deep 3m diameter Relief Trunk Sewer construction using EPB tunneling method
  - Option 2: Relief Trunk Sewer 1.5m to 3m diameter constructed by microtunneling and EPB tunneling
  - Option 3: Relief Trunk Sewer 1.5m to 3m diameter constructed by microtunneling, EPB and rock tunneling
- 3. Black Creek Sanitary Relief at Jane Street
  - Proposed to reduce water levels in the Black Creek STS in the section near Jane St and Troutbrooke Dr. to Jane St. and Downsview Ave.
  - Option 1: Underground Sanitary Storage Tank at Downsview Dells Park (Downsview Dells Tank)
  - Option 2: 1.5 m diameter relief trunk sewer constructed along Jane and Wilson (Jane/Wilson Trunk Sewer)
  - Option 3: 1.5 m diameter relief trunk sewer constructed along Jane and Downsview (Jane/Downsview Trunk Sewer)

(List continued on next panel...)

### INTO



Example of underground storage with surface area landscaped to pre-construction conditions



Example of underground storage tank design.

## Phase 3: Conceptual Design Options (Continued)

### (...List continued from previous panel)

- 4. Combined Sewer Overflow (CSO) Design Concepts
  - Option 1: Two Separate Underground Storage Tanks
  - Option 2: One Underground Storage Tank connected to a Storage Tunnel
  - Option 3\*: Storage provided entirely by a Storage Tunnel
    - Constructability review found that sufficient space for a large diameter tunnel was not available, therefore Option 3 was not considered further

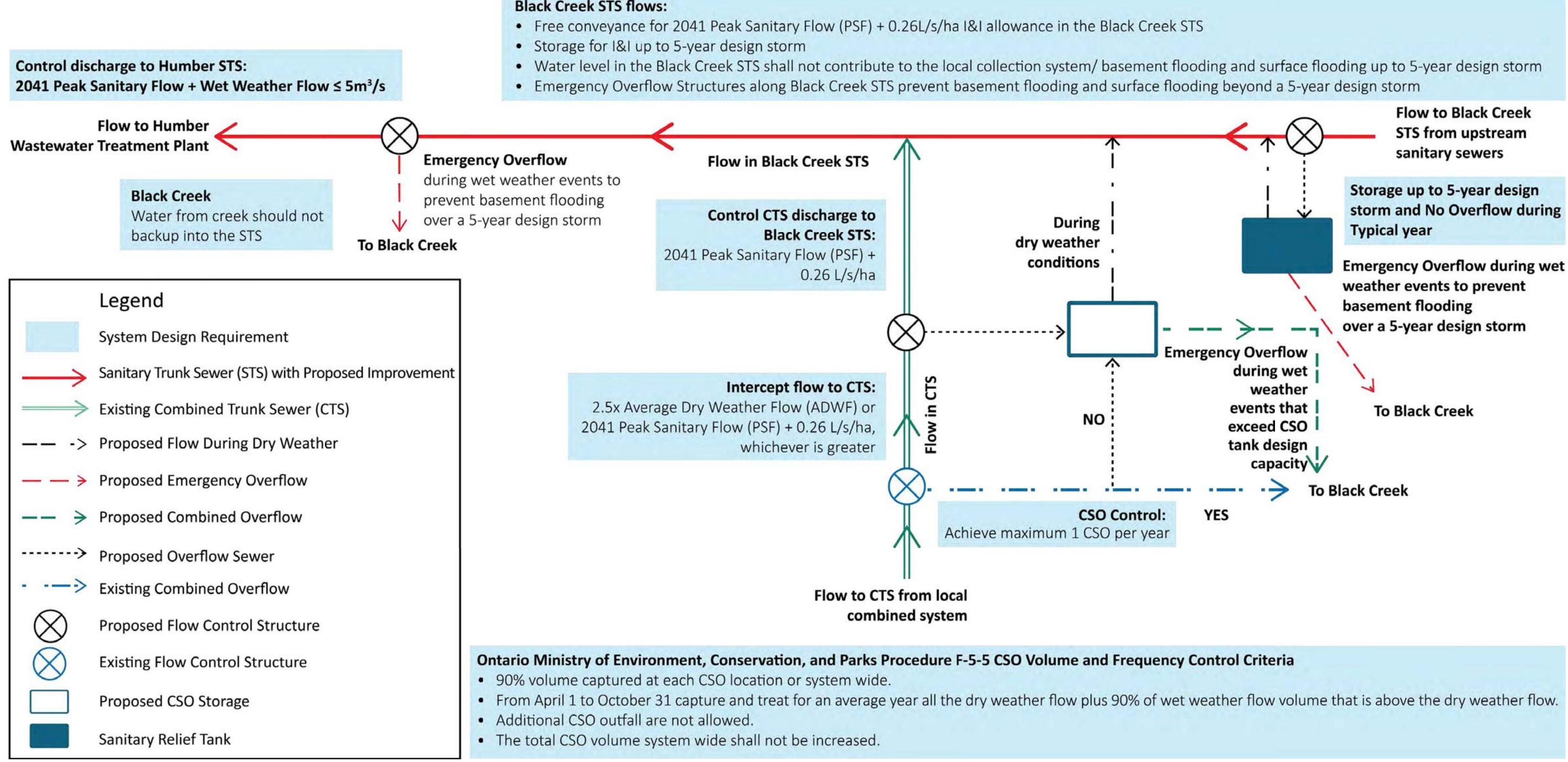
overflow.

### The recommended design concept is a combination of I&I and WWF reduction measures, a new sanitary relief trunk and diversions to balance the flow, storing or conveying excess sanitary flows, and managing/storing excess CSOs to provide an integrated approach to achieve the required sanitary servicing capacity and to control CSO

### Design Criteria

### Design Criteria for the Development of Alternative Solutions (MCEA Phase 2)

- All alternative solutions (except DO NOTHING) will include I&I reduction measures on the trunk sewer



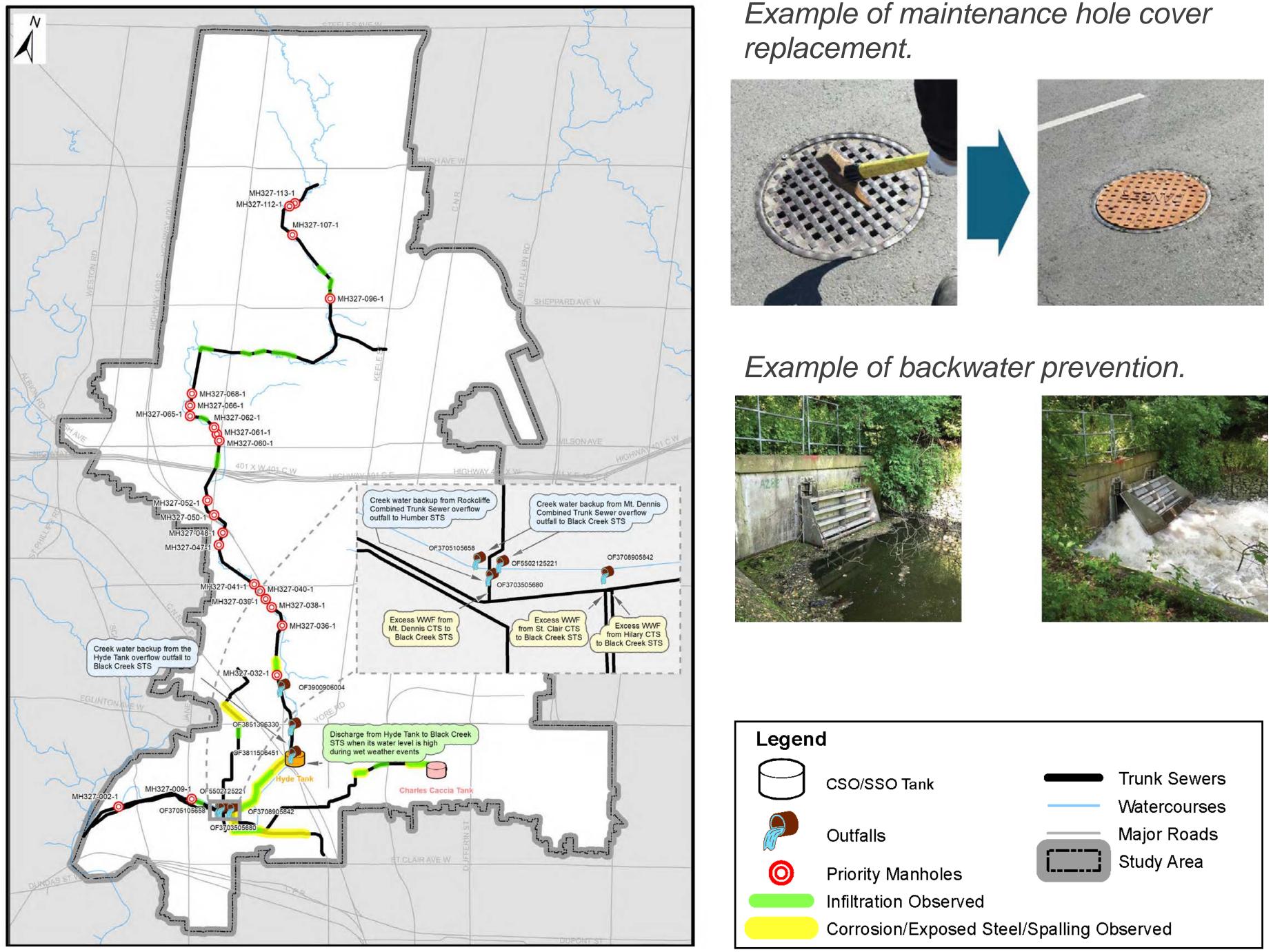
## **TORONTO**

• Assessment for the existing system capacity and development of alternative solutions will use 2041 population projections (From City's Official Plan)

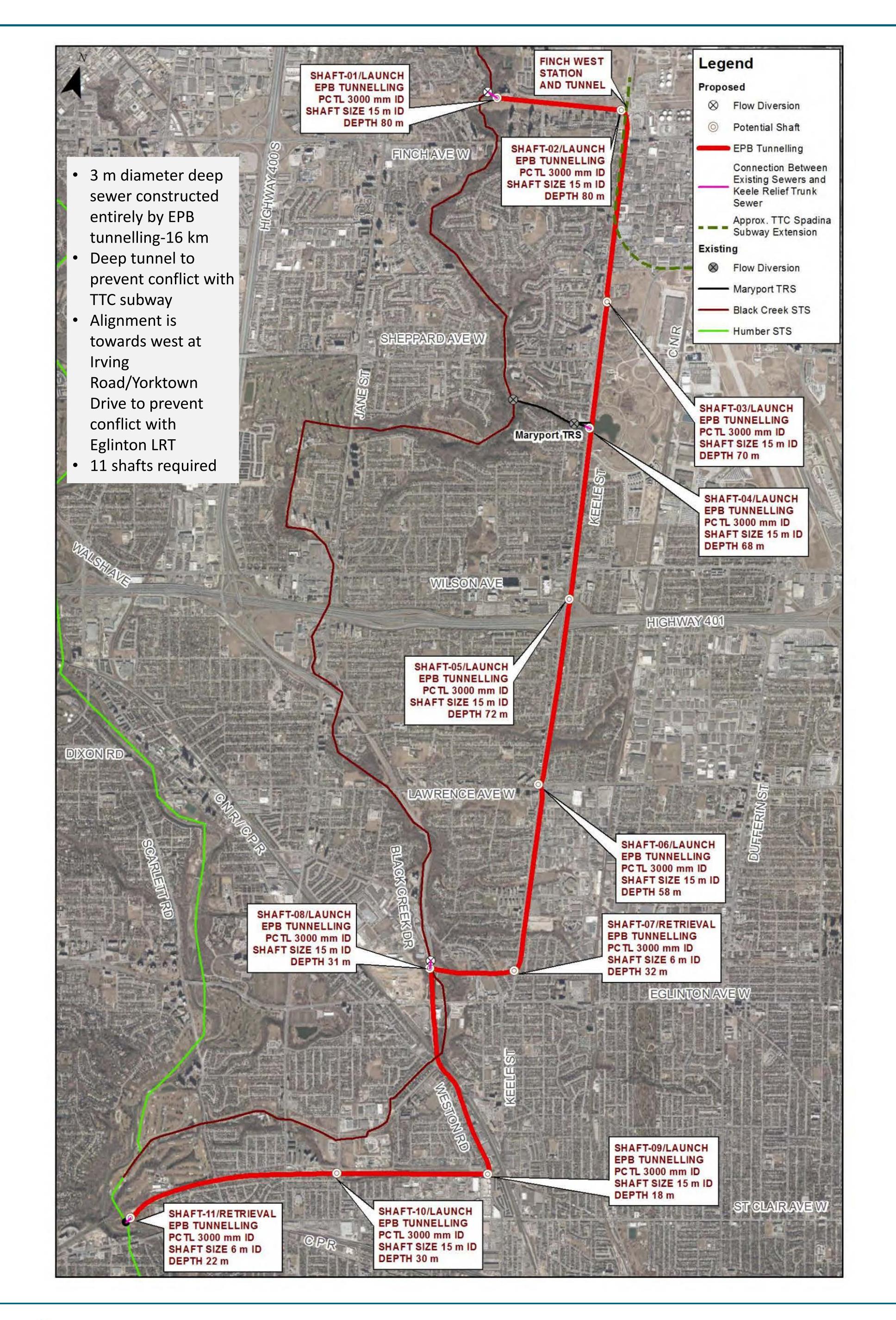
### Black Creek STS flows:

## Inflow & Infiltration and Wet Weather Flow Reduction

- Replacement of maintenance hole covers to reduce inflow
- Prevent creek water from entering the trunk sewer
- Management of inflows from  $\bullet$ combined sewer system into Black Creek STS during wet weather
- Local sewer separation in combined  $\bullet$ sewer area
  - City's state of good repair and basement flooding protection programs (on-going)
- **1&1** reduction lacksquare
  - Cross connections and other inflow sources (on-going)



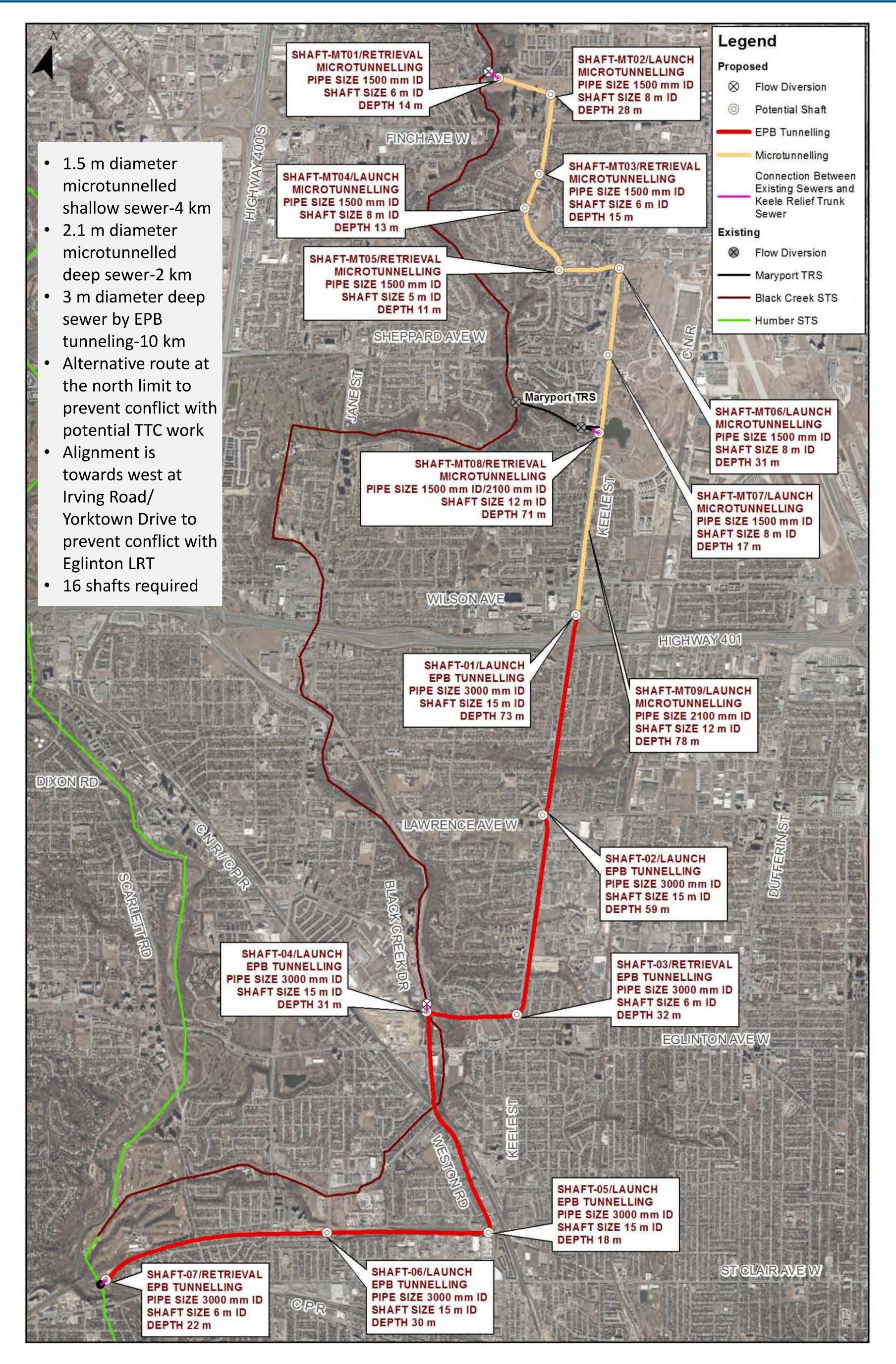
### Option 1 – A Deep 3 m Diameter Relief Trunk Sewer. Construction by EPB Tunnelling Method





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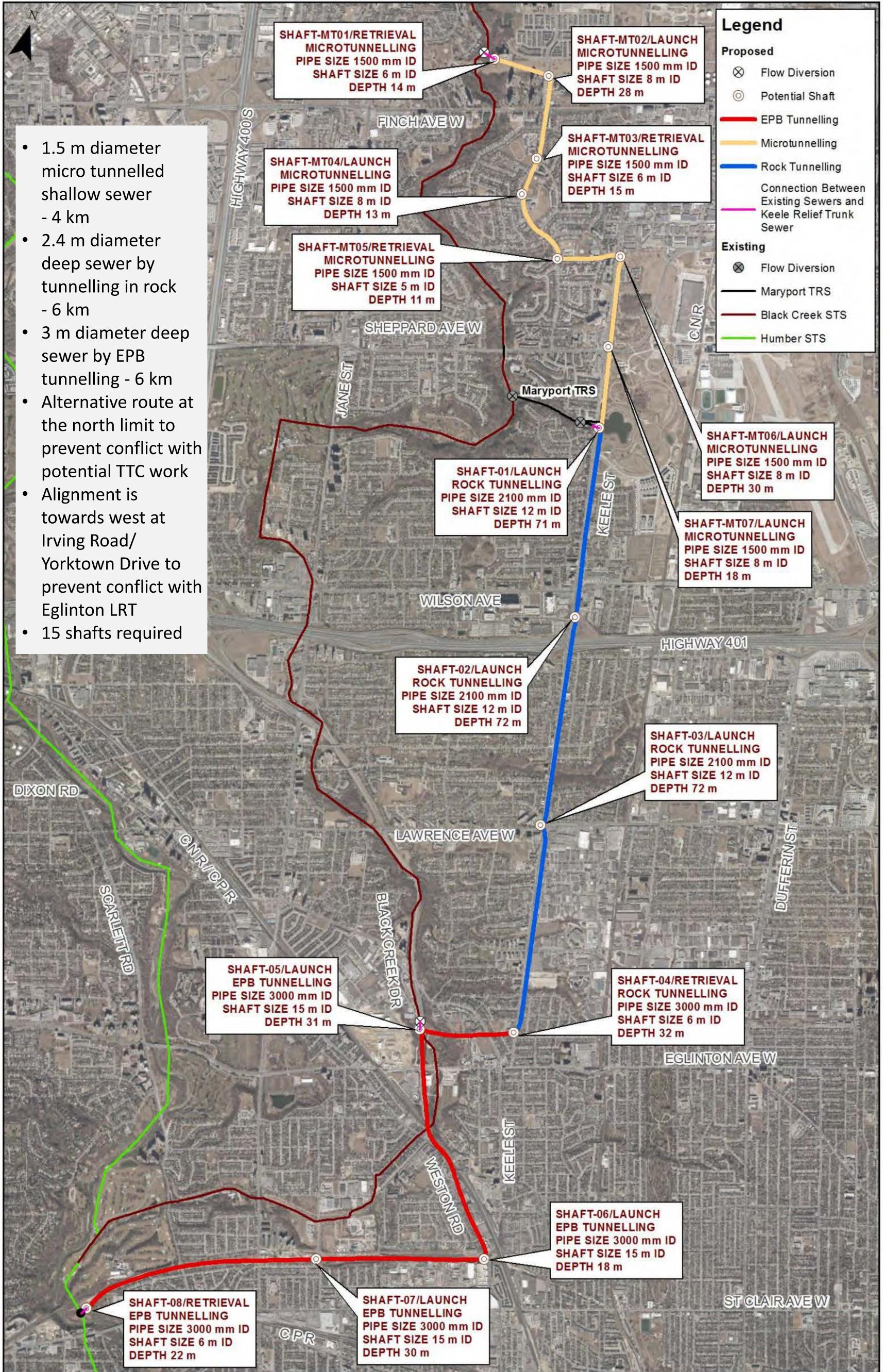
### Option 2 – 1.5 m to 3 m Diameter Relief Trunk Sewer. Construction by Microtunnelling and EPB Tunnelling Methods





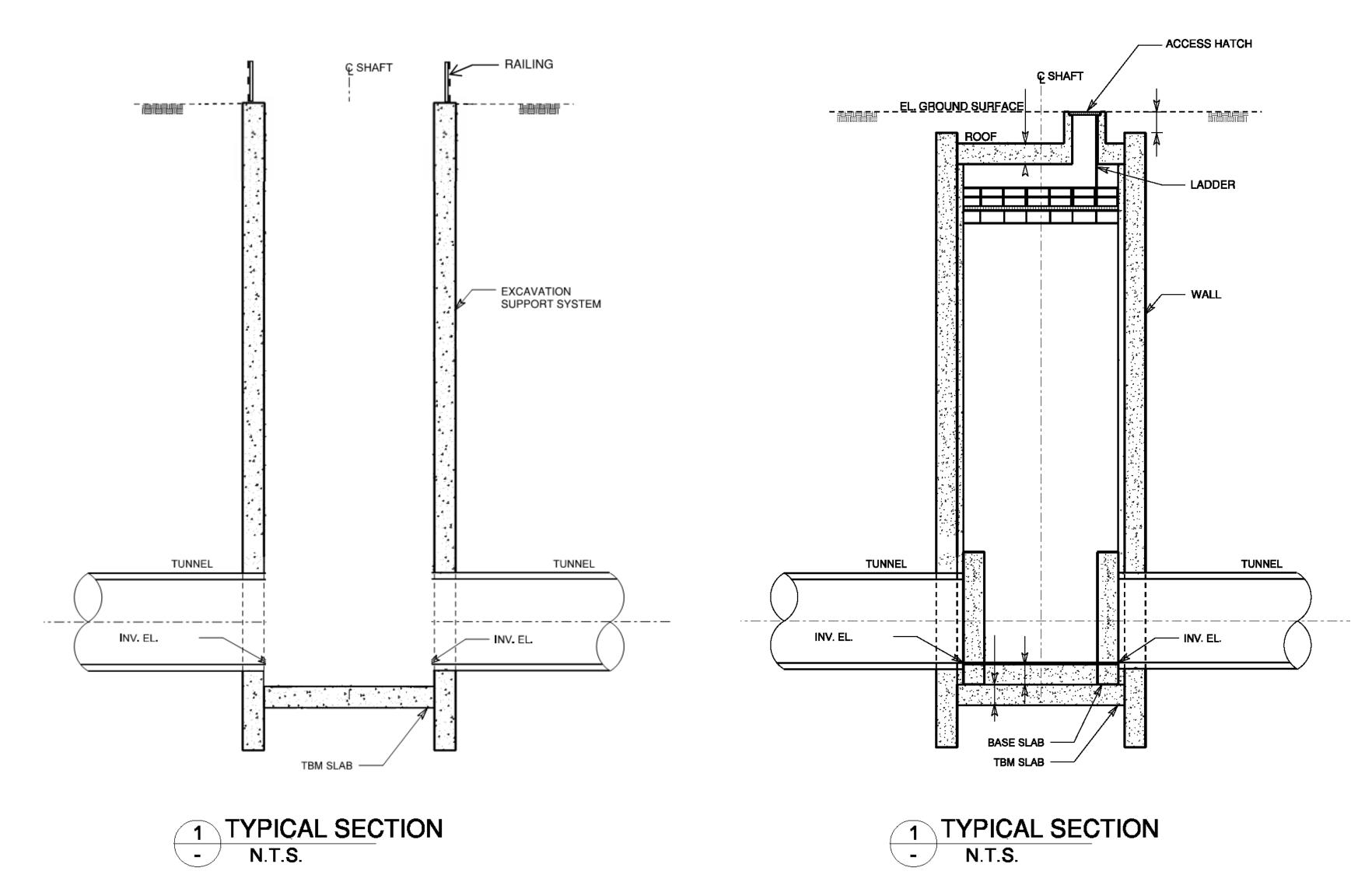
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### Option 3 – 1.5 m to 3 m Diameter Relief Trunk Sewer. Construction by Microtunnelling, EPB, and Rock Tunnelling Methods



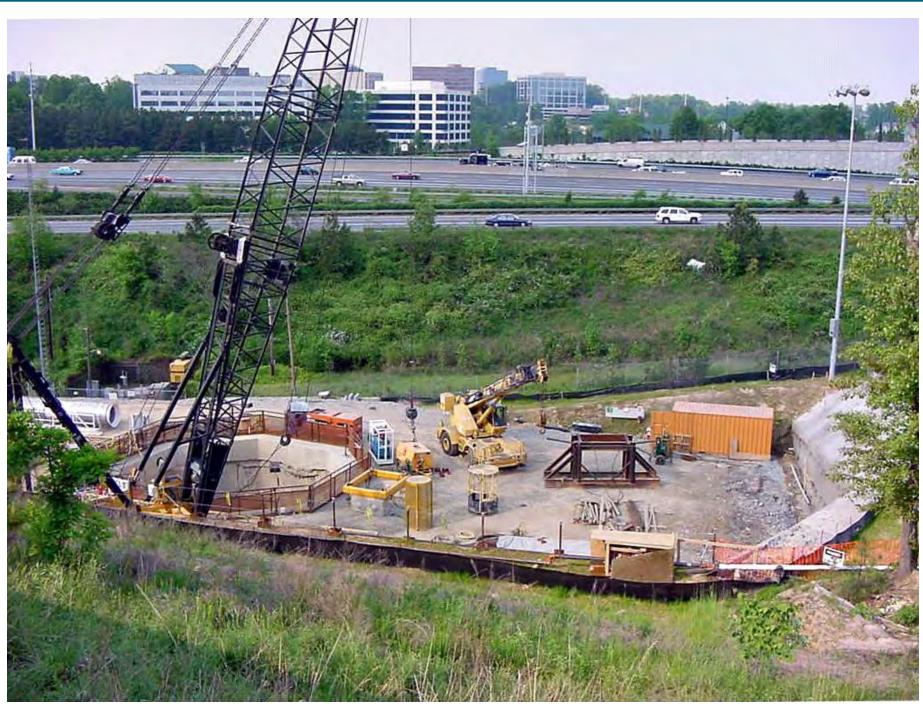


### **Conceptual Shaft Sections**



Example cross-section of a tunnel shaft during construction

Example cross-section of a tunnel shaft post- construction





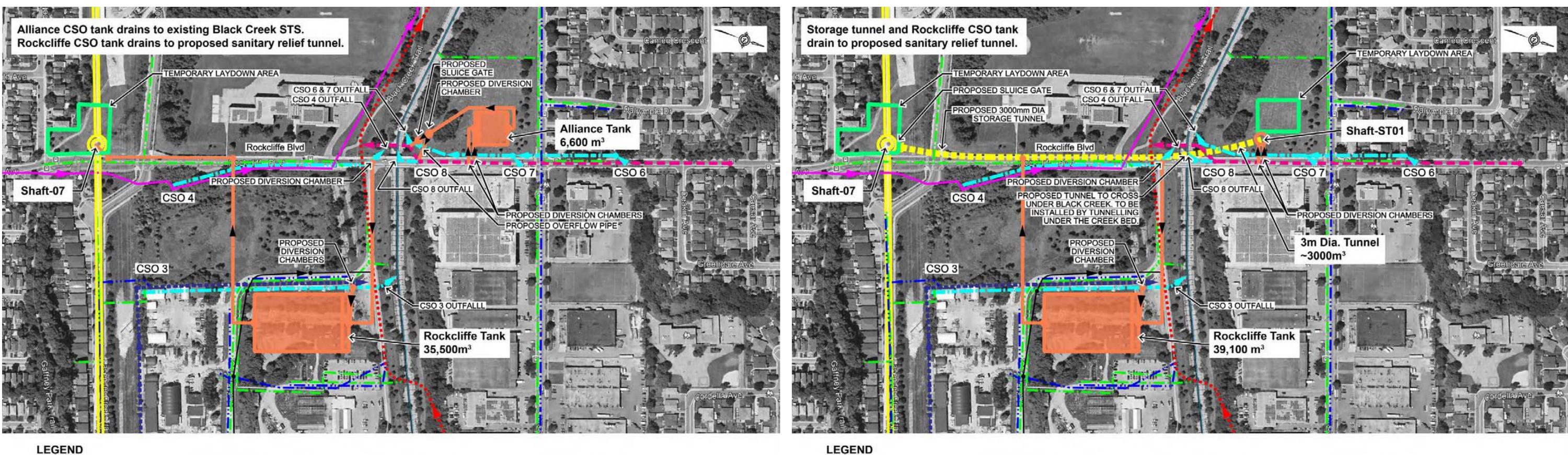
Picture of a shaft site with grass seed post construction

Picture of a shaft site during construction

### **Combined Sewer Overflow Design Concepts**

### Two alternative concepts were identified for combined sewer overflow storage, illustrated below

### **Design Concept Option 1: Two Separate Underground Storage Tanks**





STORAGE TUNNEL

ROCKCLIFFE CTS MT DENNIS CTS **BLACK CREEK STS** BEREERE HILLARY CTS \_\_\_\_\_ ST CLAIR CTS

STORM SEWER ----- SANITARY SEWER CSO OVERFLOW PIPE PROPOSED WORKS

## **TORONTO**

### **Design Concept Option 2: One Underground Storage** Tank Connected to Storage Tunnel

LEGEND



EPB TUNNELING STORAGE TUNNEL

ROCKCLIFFE CTS MT DENNIS CTS **BLACK CREEK STS** HILLARY CTS ST CLAIR CTS

TEMPORARY LAYDOWN AREA

STORM SEWER SANITARY SEWER CSO OVERFLOW PIPE PROPOSED WORKS

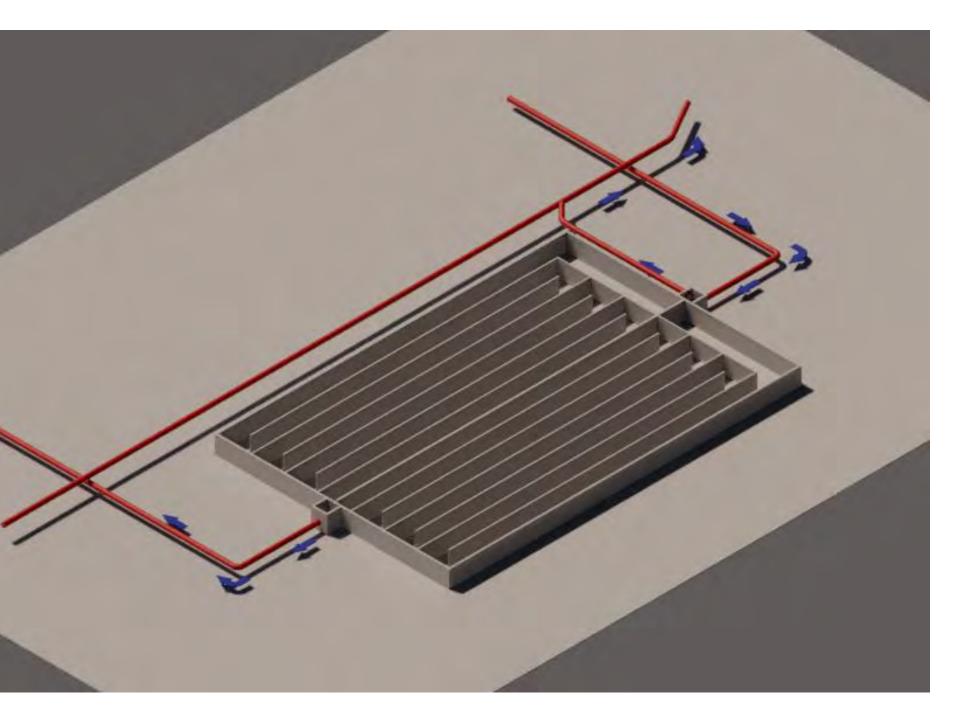


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### 3-D Representation of an Underground Tank



### **TORONTO**



### <u>3D VIEW</u> (~100 m long x ~75 m wide x ~6 m depth)

## Black Creek Sanitary Relief at Jane Street Design Concepts

Jane Street, illustrated below and on the next slide.

### **Design Concept Option 1: Underground Storage Tank**



## **DIN TORONTO**

# • Three design concepts were developed to control water levels in the Black Creek STS near

- 2500 m<sup>3</sup> underground tank • Excess flows diverted from Black Creek STS into the tank during high flow periods During low flow periods, when there is sufficient capacity in the Black Creek STS, stored wastewater is pumped back into the Black Creek STS

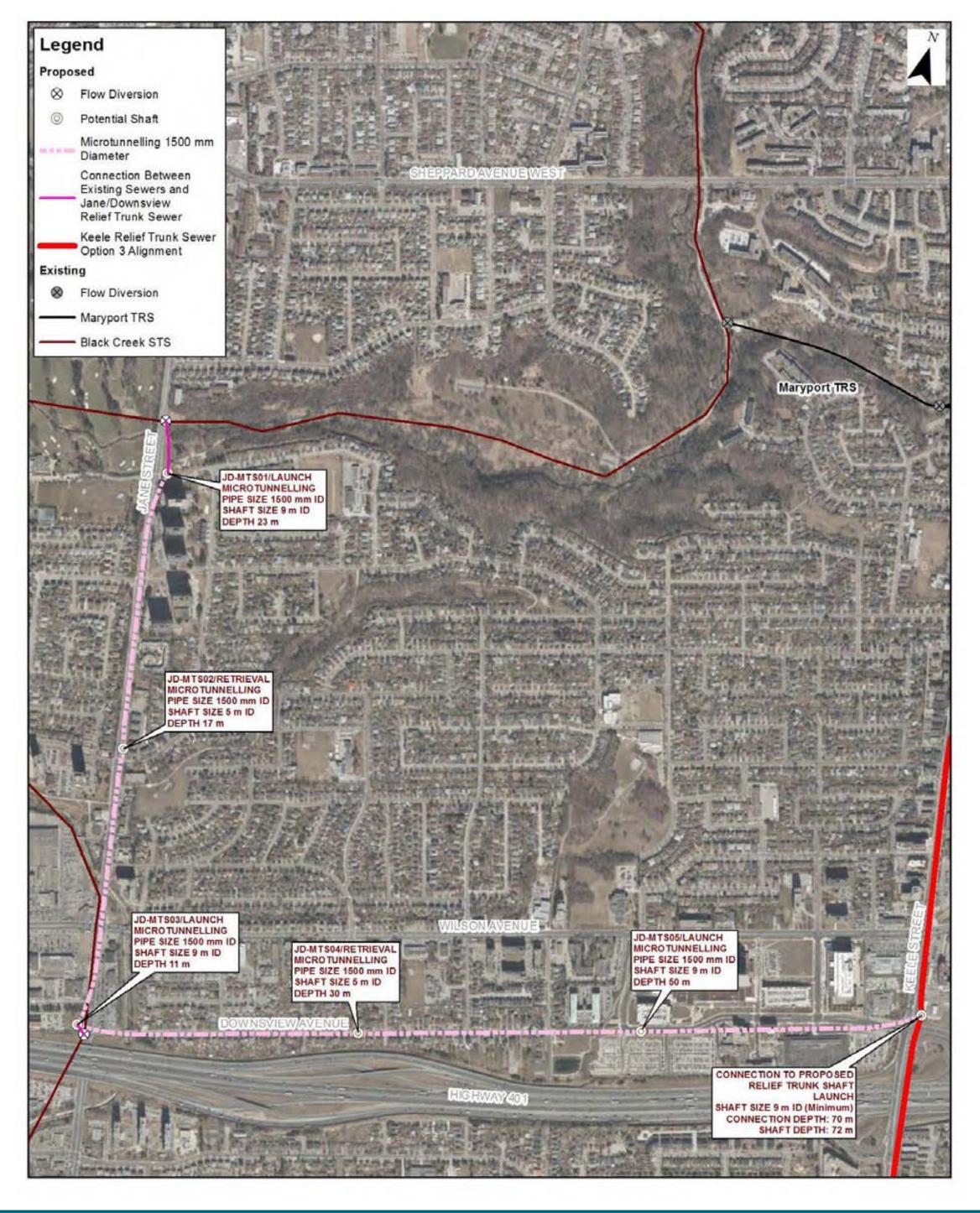
## Black Creek Sanitary Relief at Jane Street Design Concepts

### Design Concept Option 2: Jane/Wilson Relief Trunk Sewer



### TORONTO

### Design Concept Option 3: Jane/Downsview Relief Trunk Sewer



- 1500 mm diameter sewer constructed by microtunelling along Jane St and Wilson Ave (Option 2) or Jane St and Downsview Ave (Option 3)
- Flows diverted from Black Creek STS into the sewer during high flow periods
- Connects to the main
   Keele St Relief Sewer

## **Evaluation Criteria for Alternative Design Concepts**

The following evaluation criteria were developed through stakeholder input, and have been used to evaluate the design concept options.

<section-header></section-header>	<ul> <li>Terrestrial impacts (e.g. trees, vegetation, wildlife)</li> <li>Aquatic habitat impacts (e.g. water quality, erosion and sedimentation impacts)</li> <li>Surface and groundwater</li> <li>Air Quality</li> </ul>	Technical	<ul> <li>Ability to meet p</li> <li>Long-term syste</li> <li>System operation</li> <li>Operational flex</li> <li>Risks of conflicts</li> <li>Geotechnical an</li> <li>Regulatory appr</li> </ul>
Social & Cultural	<ul> <li>Long-term community impact (e.g. noise, odour, aesthetics, green space)</li> <li>Construction related impacts</li> <li>Property acquisition requirements</li> <li>Compatibility with existing and planned land use</li> <li>Cultural heritage and archaeological</li> </ul>	Cost	<ul> <li>Capital cost</li> <li>Operations and</li> <li>Life Cycle Costs</li> </ul>

### **TORONTO**

impacts

project objectives em reliability ional complexity exibility and redundancy cts with other infrastructure and hydrogeology provals

d maintenance costs S

### Sanitary Relief Trunk / Diversion Design Concepts **Design Concept Options Evaluation**

Based on the evaluation criteria, the final scores for all options are very close.

- Option 3 (shallow tunneling) has the highest score (by a small margin) and is recommended.  $\bullet$
- Option 1 (deep tunneling) is viable, but at a higher cost.
- Option 2 did not score high enough to warrant further consideration.  $\bullet$

Alternatives	Natural	Socio-Cultural	Technical	Economic	
Option 1: Deep 3000 mm Diameter Relief Trunk Sewer Construction Using an Earth Pressure Balance (EPB) Tunnel Boring Machine	Least impacts or greatest benefit when compared to other options, impacts can be	Least impacts or greatest benefit when compared to other options, impacts can be	Moderate impacts or moderate benefit when compared to other options.	Capital - \$ 327,000,000 O&M - \$ 1,600,000 Life Cycle - \$ 354,000,000	Option 1 com score slightly I due to increas maintaining a the deep cons
	mitigated <sup>a</sup>	, mitigated <sup>a</sup>			station. Optio
Option 2: Microtunneling and EPB Tunnel Boring Machine	Moderate impacts or moderate benefit when compared to other options.	Least impacts or greatest benefit when compared to other options, impacts can be mitigated <sup>a</sup>	Least impacts or greatest benefit when compared to other options <sup>a</sup>	Capital - \$ 300,000,000 O&M - \$ 1,500,000 Life Cycle - \$ 325,000,000	Option 2 comp slightly lower category due t shafts. Option
Option 3: Microtunneling, Rock Tunnel Boring Machine and EPB Boring Machine <sup>a</sup>	Moderate impacts or moderate benefit when compared to other options.	Least impacts or greatest benefit when compared to other options, impacts can be mitigated <sup>a</sup>	Least impacts or greatest benefit when compared to other options <sup>a</sup>	Capital - \$ 276,000,000 O&M - \$ 1,400,000 Life Cycle - \$ 299,000,000 a	Option 3 comp slightly lower category due t shafts. Option

### Notes:

O&M = Estimate of annual operation and maintenance cost Life Cycle = Estimate of the total cost of an asset over the course of its useful life (useful life estimated to be 100 years) <sup>a</sup> = Least impacts and/or lowest cost

### **TORONTO**

### Summary

mpared to the other options did / lower on the technical category ased operation complexity due to a large tunnel with low flows and nstruction under the planned TTC on 1 is the highest cost option.

mpared to Option 1 did score er on the natural environment e to the increased number of on 2 is the mid-cost option.

npared to Option 1 did score r on the natural environment e to the increased number of on 1 is the lowest cost option. <sup>a</sup>

### Black Creek Sanitary Relief at Jane Street **Design Concept Options Evaluation**

Based on the evaluation criteria, all three options scored very closely and are all viable alternatives. Option 1 has the lowest cost, but provides less flexibility and redundancy than Options 2 and 3. Options 2 and 3 provide additional flexibility, redundancy, and technical benefits, but at a higher cost. Option 3 is recommended.  $\bullet$ 

Alternatives	Natural	Socio-Cultural	Technical	Economic	
Option 1: Downsview Dells Tank	Moderate impacts or moderate benefit when compared to other options, impacts can be mitigated.	Slightly higher impacts or slightly lower benefit when compared to other options	Moderate impacts or moderate benefit when compared to other options.	Capital - \$ 7,300,000 O&M - \$ 146,000 Life Cycle - \$ 9,730,000 a	Option : categori impacts cultural potentia addition less ope Option :
Option 2: Jane/Wilson Relief Sewer	Least impacts or greatest benefit when compared to other options, impacts can be mitigated <sup>a</sup>	Least impacts or greatest benefit when compared to other options, impacts can be mitigated <sup>a</sup>	Least impacts or greatest benefit when compared to other options <sup>a</sup>	Capital - \$ 46,860,000 O&M - \$ 234,000 Life Cycle - \$ 50,750,000	Option categori was slig disrupti for som Option
Option 3: Jane/Downsview Relief Sewer <sup>a</sup>	Least impacts or greatest benefit when compared to other options, impacts can be mitigated <sup>a</sup>	Least impacts or greatest benefit when compared to other options, impacts can be mitigated <sup>a</sup>	Least impacts or greatest benefit when compared to other options <sup>a</sup>	Capital - \$ 42,090,000 O&M - \$210,000 Life Cycle - \$ 45,580,000	Option 3 categori was slig disrupti for som Option 3 Option 3

Notes:

O&M = Estimate of annual operation and maintenance cost

Life Cycle = Estimate of the total cost of an asset over the course of its useful life (useful life estimated to be 100 years)

<sup>a</sup> = Least impacts and/or lowest cost

### **IORONTO**

### **Summary**

1 scored slightly lower than the other options in several pries: natural environment due to potential for odour ts and for greater emergency overflow volumes; socioal due to a permanent above ground control structure and tial for archeological impact; and technical due to onal operational complexity of the pumping systems and perational flexibility/redundancy than other options. n 1 is the lowest cost option.

n 2 scored slightly higher than Option 1 in most pries except cost. Though the total socio-cultural score ightly higher than Option 1, there is potential for traffic ption during construction and easements may be needed me shaft locations and some parts of the alignment. n 2 had the highest cost.

n 3 scored slightly higher than Option 1 in most pries except cost. Though the total socio-cultural score ightly higher than Option 1, there is potential for traffic ption during construction and easements may be needed me shaft locations and some parts of the alignment. n 3 had a higher cost than Option 1 but lower than n 2.

### Combined Sewer Overflow Design Concepts Design Concept Options Evaluation

Based on the evaluation criteria, the final scores for both options are very close.

- Option 1 is recommended.
- Option 2 is also viable at an equivalent cost.

Design Concept	Natural	Socio-Cultural	Technical	Economic	
Option 1: Two Separate Underground Storage Tanks <sup>a</sup>	Least impacts or greatest benefit when compared to other options, impacts can be mitigated <sup>a</sup>	Moderate impacts or moderate benefit when compared to other options.	Least impacts or greatest benefit when compared to other options <sup>a</sup>	Capital - \$ 53,000,000 O&M - \$ 570,000 Life Cycle - \$ 62,000,000 <sup>a</sup>	Option 1 scored s cultural category tanks may cause community durin measures will be Option 1 is recom operational chall impacts. <sup>a</sup>
Option 2: One Underground Storage Tank Connected to Storage Tunnel	Least impacts or greatest benefit when compared to other options, impacts can be mitigated <sup>a</sup>	Least impacts or greatest benefit when compared to other options, impacts can be mitigated <sup>a</sup>	Moderate impacts or moderate benefit when compared to other options.	Capital - \$ 52,000,000 O&M - \$ 610,000 Life Cycle - \$ 62,000,000	Option 2 scored l due to higher risk higher risk of util is similar for bot

Notes:

O&M = Estimate of annual operation and maintenance cost Life Cycle = Estimate of the total cost of an asset over the course of its useful life (useful life estimated to be 100 years) a = Least impacts and/or lowest cost

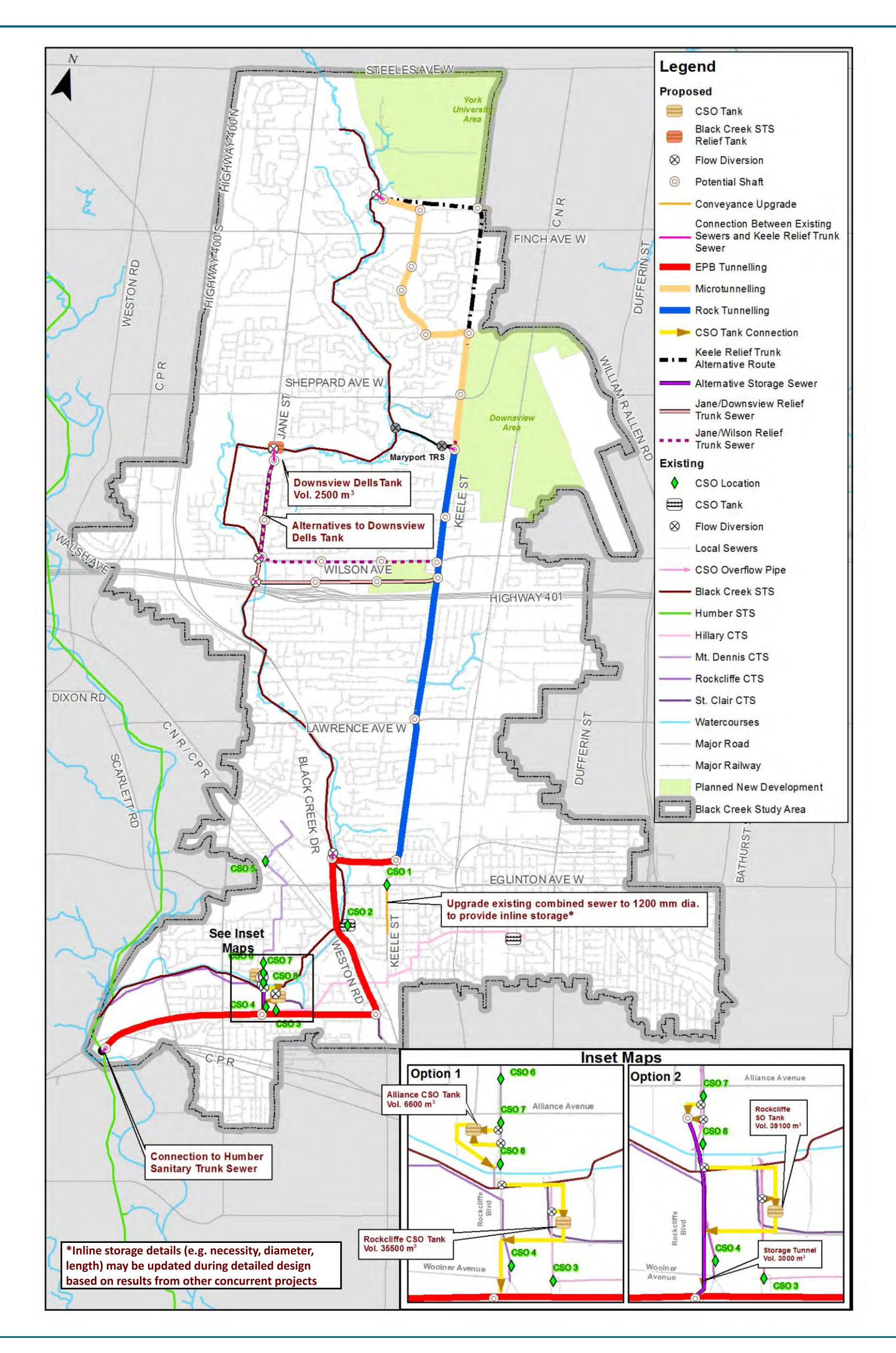
### TORONTO

### Summary

slightly lower in the socioy as the construction of two more disruption to the ing construction (mitigation e implemented to minimize). mmended due to lower risk of llenges and less risk of utility

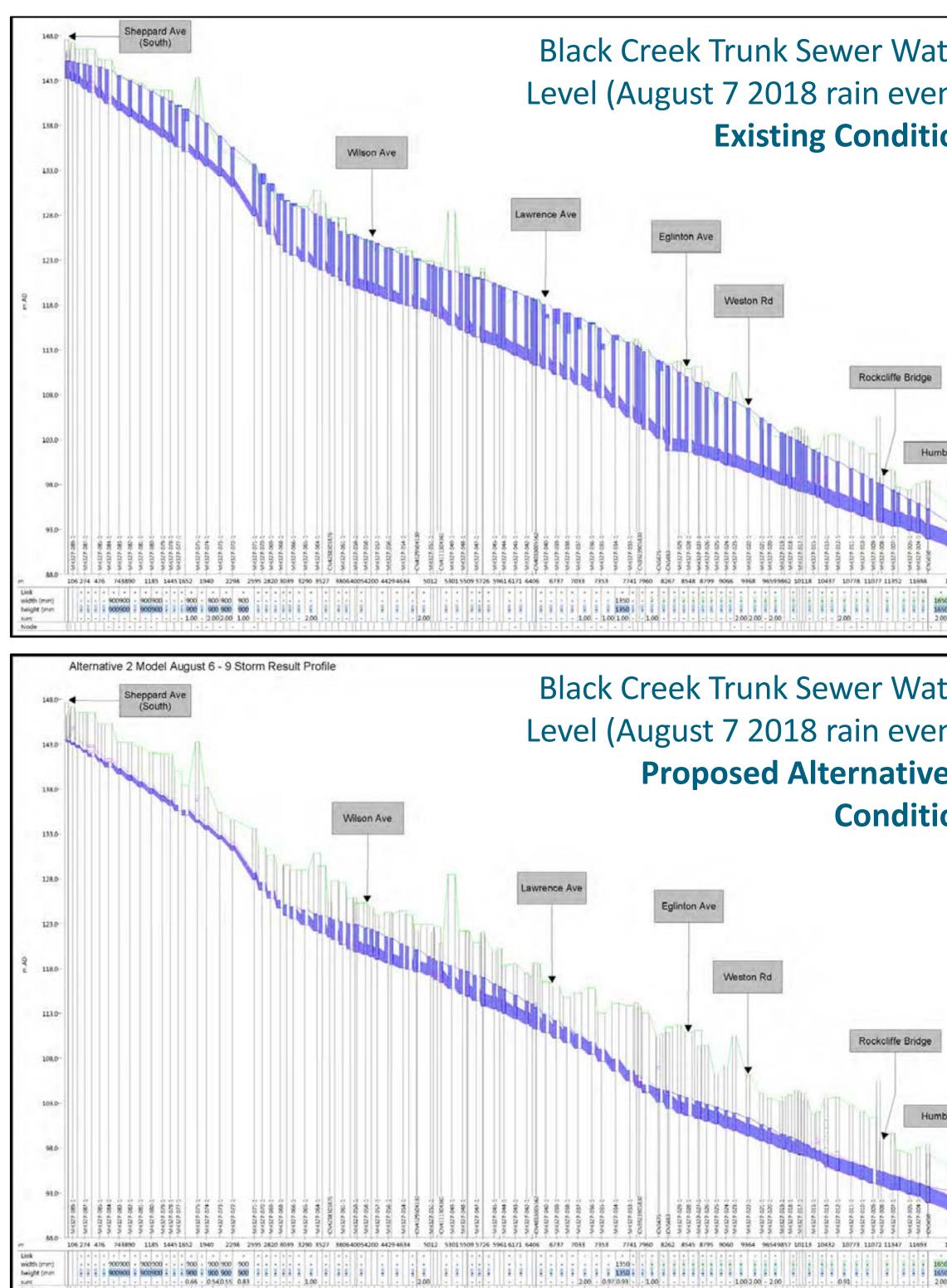
d lower in the technical category sk of operational challenges and tility impacts. It is noted that cost oth options.

### **Recommended Design Concept**





### **Benefits of Recommended Alternative – Keele Street**



## **TORONTO**

CSO #			EXISTING CONDITION		<b>RECOMMENDED ALTERNATIVE CONDITION</b>		
	OVERFLOW LOCATION	TRUNK SEWERSHED	OVERFLOW VOLUME (M <sup>3</sup> )	% WWF CAPTURE	OVERFLOW VOLUME (M <sup>3</sup> )	% WWF CAPTURE	CSO REDUCTION (%)
1	Keele St and Eglinton Avenue	Hillary	40,664	74.9%	85	99.9%	99.8%
2	Hyde tank	Hillary	16,379	90.8%	0	100.0%	100.0%
3	Rockcliffe Crt and Lavender Creek Trail	Hillary	307,824	69.2%	11,031	98.2%	96.4%
4	Rockcliffe Blvd and Woolner Avenue	Rockcliffe	131,189	53.1%	0	100.0%	100.0%
5	Weston Road and Ray Ave	Mt. Dennis	0	100.0%	0	100.0%	Not Applicable
6	Rockcliffe Blvd and Alliance Avenue	Mt. Dennis	411	99.7%	0	100.0%	100.0%
7	Rockcliffe Blvd and Alliance Avenue	Mt. Dennis	3,569	97.6%	0	100.0%	100.0%
8	Rockcliffe Blvd and Black Creek	Mt. Dennis	28,493	80.2%	2,169	98.5%	92.4%
	Total		528,529	74.4%	13,285	99.10%	97.5%

## Mitigation of Potential Construction Impacts

Traffic Noise and	•	Consultation with City's Trans Early notification to homeow (will be kept to a minimum), a Minimizing construction traff
Vibration	•	Enforcing City anti-noise by-la Restricting construction noise Conducting pre-construction
Erosion and Sedimentation	•	Sediment traps will be placed Silt fences will be installed ald and dust. Watering will also be Exposed excavated material w Catchbasins will be covered be watercourses, where necessa
Trees and Restoration	•	Mature trees will be avoided, Small trees, if removed, will k City's requirements Root pruning, if required, will Disturbed sidewalks, roads ar Disturbed park areas or priva
Air Quality	•	Odour control systems to be Silt fences will be installed ald and dust. Watering will also b

## ONTO

- sportation Services Division
- vners if temporary blockage to their driveway has to be considered alternative short-term parking provided where possible
- fic in local residential streets
- aw for all construction activities
- e to suitable work hours
- survey for houses which may be affected by soil vibration during construction activities
- d to deal with storm runoff during construction, where appropriate long the perimeters of the construction sites where appropriate to capture blowing sand be considered.
- will be covered to prevent erosion by rain/wind
- by filter fabric during construction to prevent migration of sediments to receiving ary
- , where possible, to minimize the need for their removal be replaced or replanted. The replacement of trees will be done in accordance with
- I be done in accordance with City Parks Department Standards ind parking areas should be restored to their existing conditions after construction ate properties should be restored to their existing conditions or better
- installed as needed for construction ong the perimeters of the construction sites where appropriate to capture blowing sand be considered to help control dust

## Next Steps - Phase 4 Environmental Study Report (ESR)

### After today's meeting:

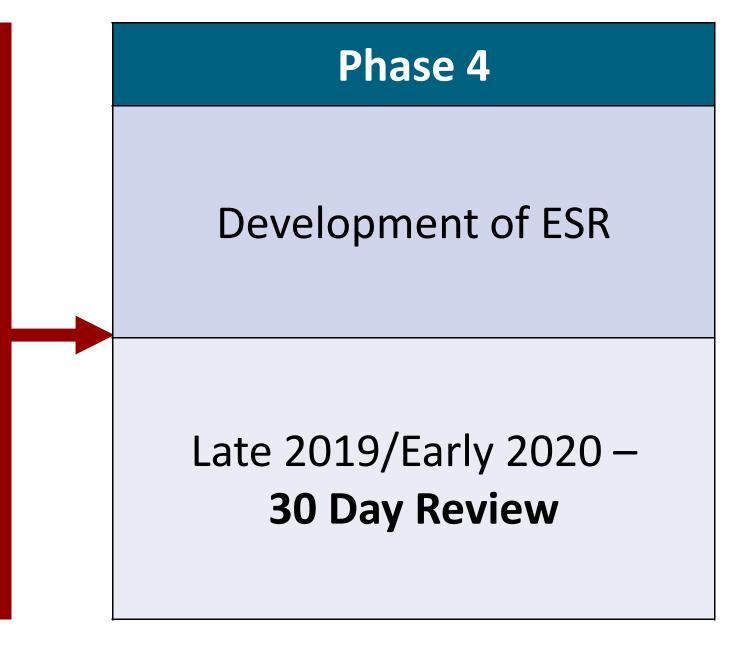
- Finalize the recommended design concepts,  $\bullet$ incorporating feedback received from the public and other stakeholders
- Proceed with development of ESR
- ESR 30-day public review period

Phase	Phase 1	Phase 2			Phase 3	
	Identification of Problem and Opportunity		Identification of Alternative Solutions		Identification of Alternative Design Concepts	TODAY – Public Consultatio
Task	Spring 2016 – Public Consultation Drop- In Event #1	Identify Alternatives	Assess and Recommend Preferred Alternative	April 2019 – Public Consultation Drop-In Event #2	Assess and Recommend Preferred Design Concept	Drop-In Event #3

### **TORONTO**

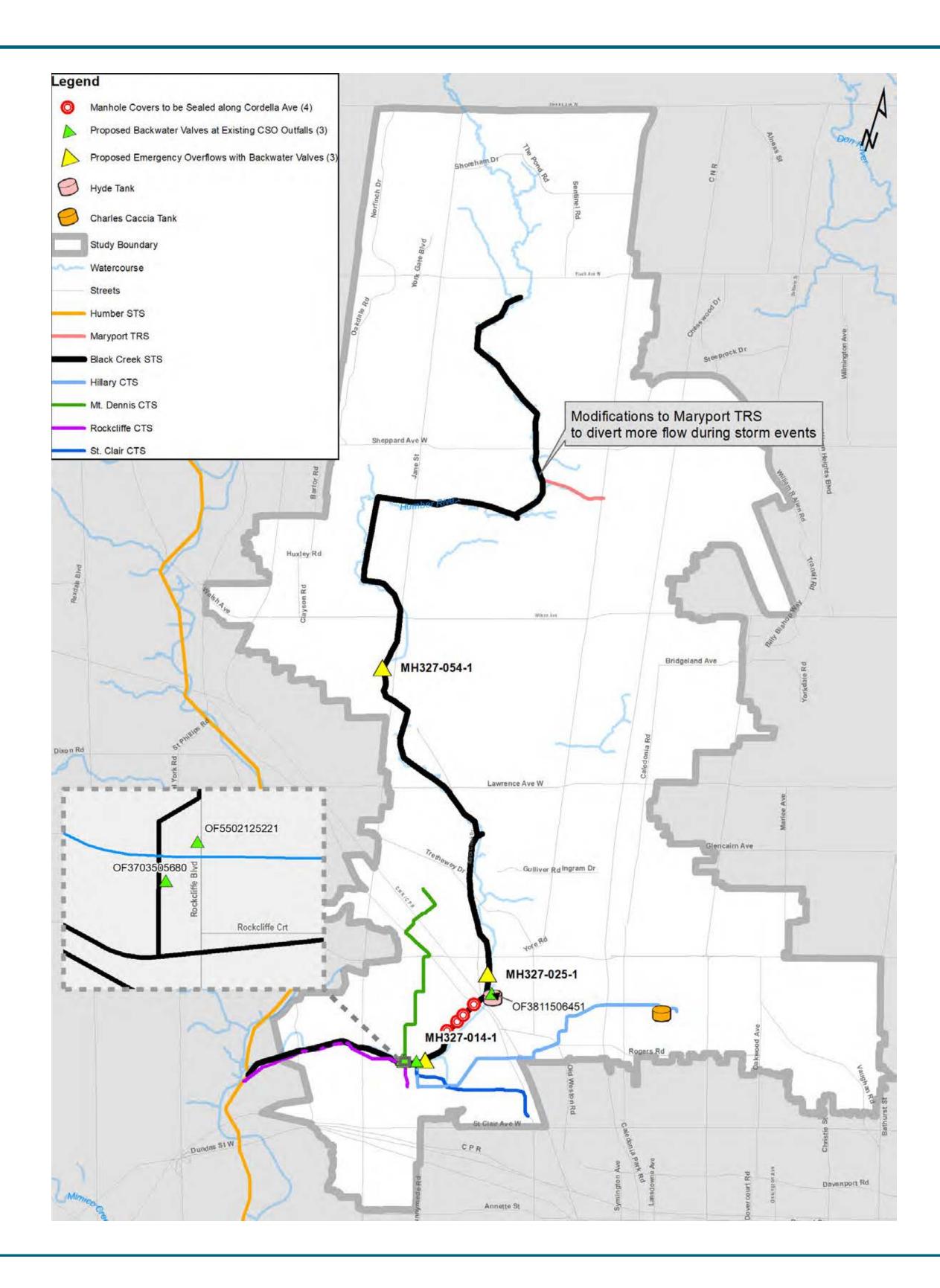
### **ESR will include:**

- Summary of investigations and findings of the study
- Public and stakeholder comments and responses
- Description of the refined preferred alternative
- Mitigation measures for identified natural environment, social, cultural, and technical impacts

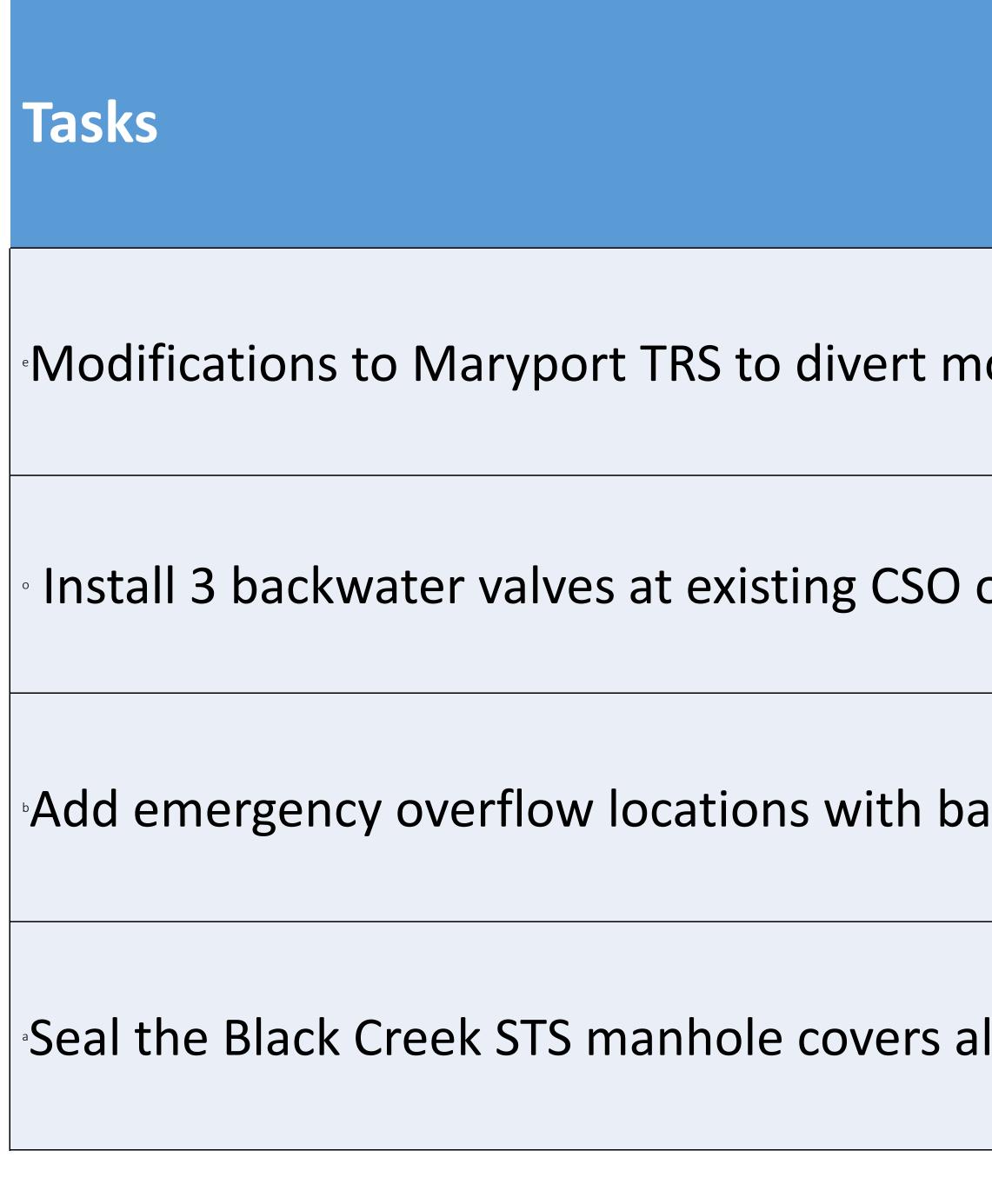


### **Interim Solution**

- Modifications to Maryport TRS to divert more flow during storm events
- Install 3 backwater valves at existing CSO outfalls
- Add emergency overflow locations with backwater valves
- Seal the Black Creek STS manhole covers along Cordella Avenue



### Interim Solution – Implementation Timeline



### **TORONTO**

nore flow during storm events	
outfalls	(2
ackwater valves	Imple
long Cordella Avenue	Impler

# Finish Q1 2020 Q3 2020 (2 have already been done)

### ementation pending approvals

# mentation pending approval of overflow locations

### Thank You for Attending

We welcome your feedback. Please fill out the comment sheet provided. Following this event, the project team will review and consider your comments in the development of the environmental study report.

### Mae Lee

Public Consultation Unit City of Toronto 55 John Street, Metro Hall 19th Floor, Toronto, ON M5V 3C6 Phone: 416-392-8210 Fax: 416-392-2974 TTY: 416-338-0889 Email: <u>mae.lee@toronto.ca</u> Visit: toronto.ca/blackcreekstudy

