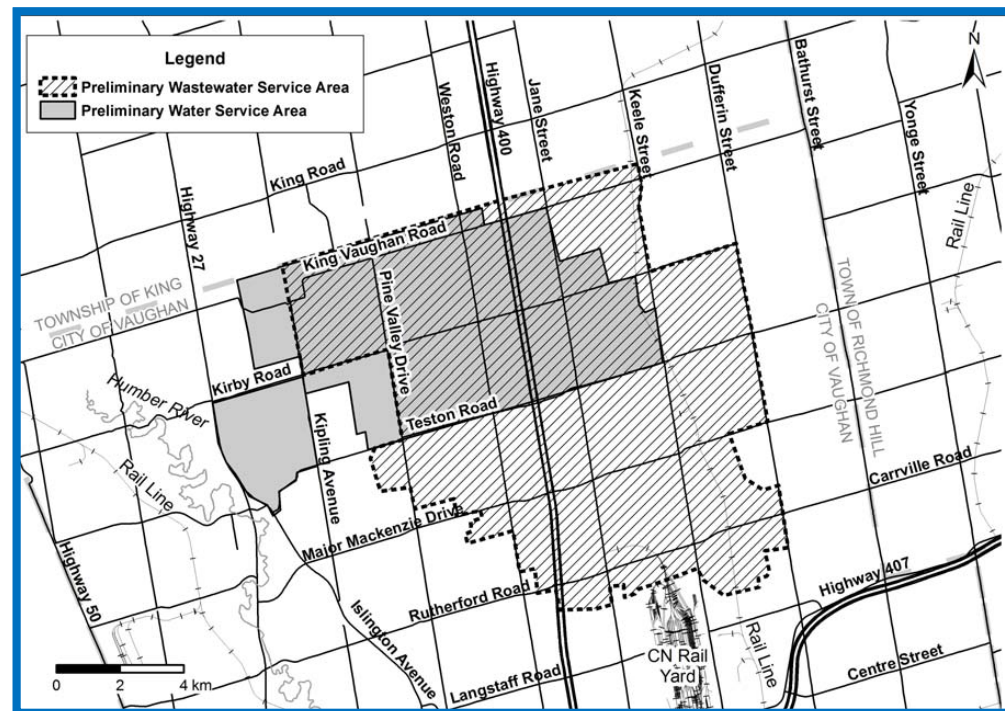


# NORTHEAST VAUGHAN WATER AND WASTEWATER SERVICING PROJECT

## Stakeholder Advisory Committee Meeting # 1

November 26, 2014  
6:30 p.m. to 9:00 p.m.  
Maple Community Centre  
Activity Room 1



Accessible formats or communication supports are available upon request.

Please contact [EnvironmentalServices@york.ca](mailto:EnvironmentalServices@york.ca) or call 905-830-4444 extension 73000.

# Stakeholder Advisory Committee Meeting Outline

1. Introduction
2. Stakeholder Advisory Committee (SAC) Terms of Reference Review
3. Project Overview  
*Break*
4. Project Status
5. Questions / Discussion
6. Next Steps and Future Meetings

# 1. Introduction

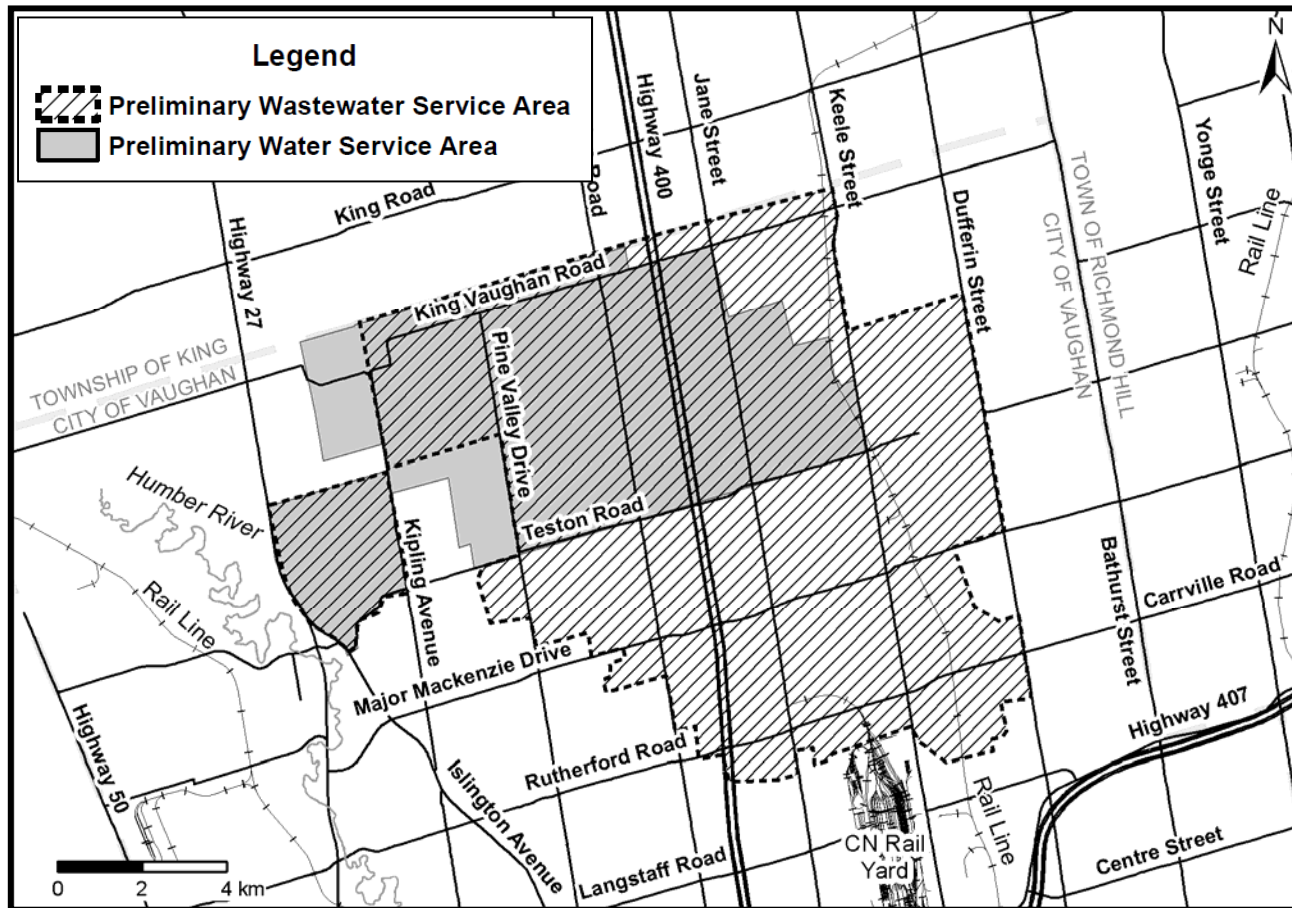
# Purpose, Objectives & Introductions

## Meeting Purpose:

- Introduce the project
- Review the Terms of Reference for the SAC
- Discuss project status and next steps

# Project Purpose:

*To identify the water and wastewater infrastructure needed to service anticipated growth in northeast Vaughan to 2051*

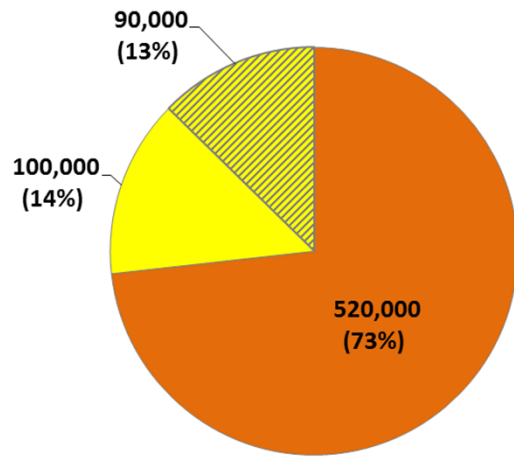


# Additional Project Objectives:

- Identify project needs through effective co-ordination with the City of Vaughan and major stakeholders
- Incorporate these needs and requirements into the development and evaluation of sustainable alternative solutions
- Optimize the Region's existing water and wastewater infrastructure and systems to leverage existing capacity

# Residential and Employment Population Growth to 2051

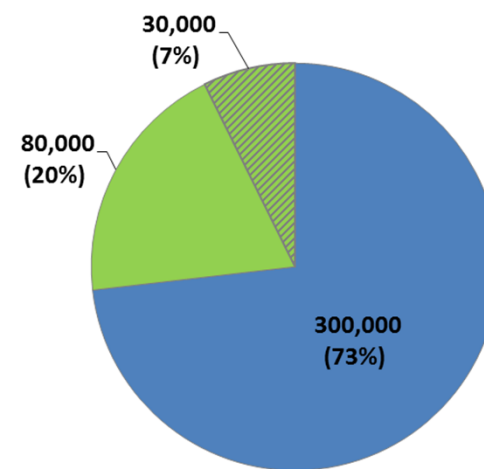
York Region Growth Projections for 2051  
(Residential Population)



- Percent of Total Growth in Rest of York Region
- Percent of Total Growth in Rest of City of Vaughan
- Percent of Total Growth in Northeast Vaughan - Wastewater Servicing Area

Total Residential Growth by 2051: 710,000 people

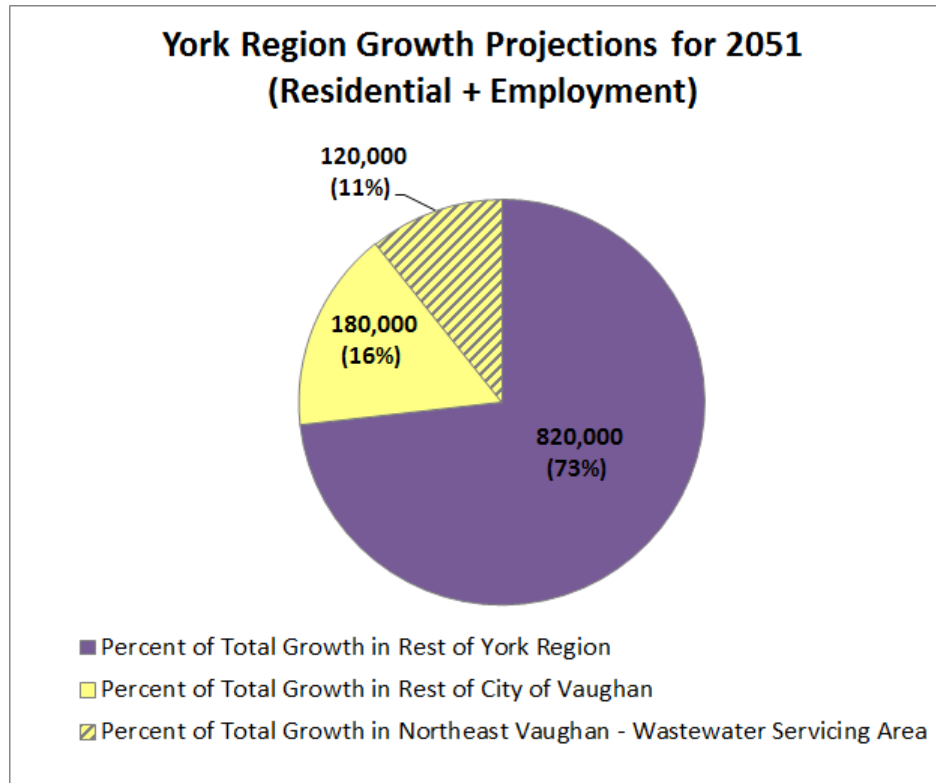
York Region Growth Projections for 2051  
(Employment Population)



- Percent of Total Growth in Rest of York Region
- Percent of Total Growth in Rest of City of Vaughan
- Percent of Total Growth in Northeast Vaughan - Wastewater Servicing Area

Total Employment Growth by 2051: 410,000 people

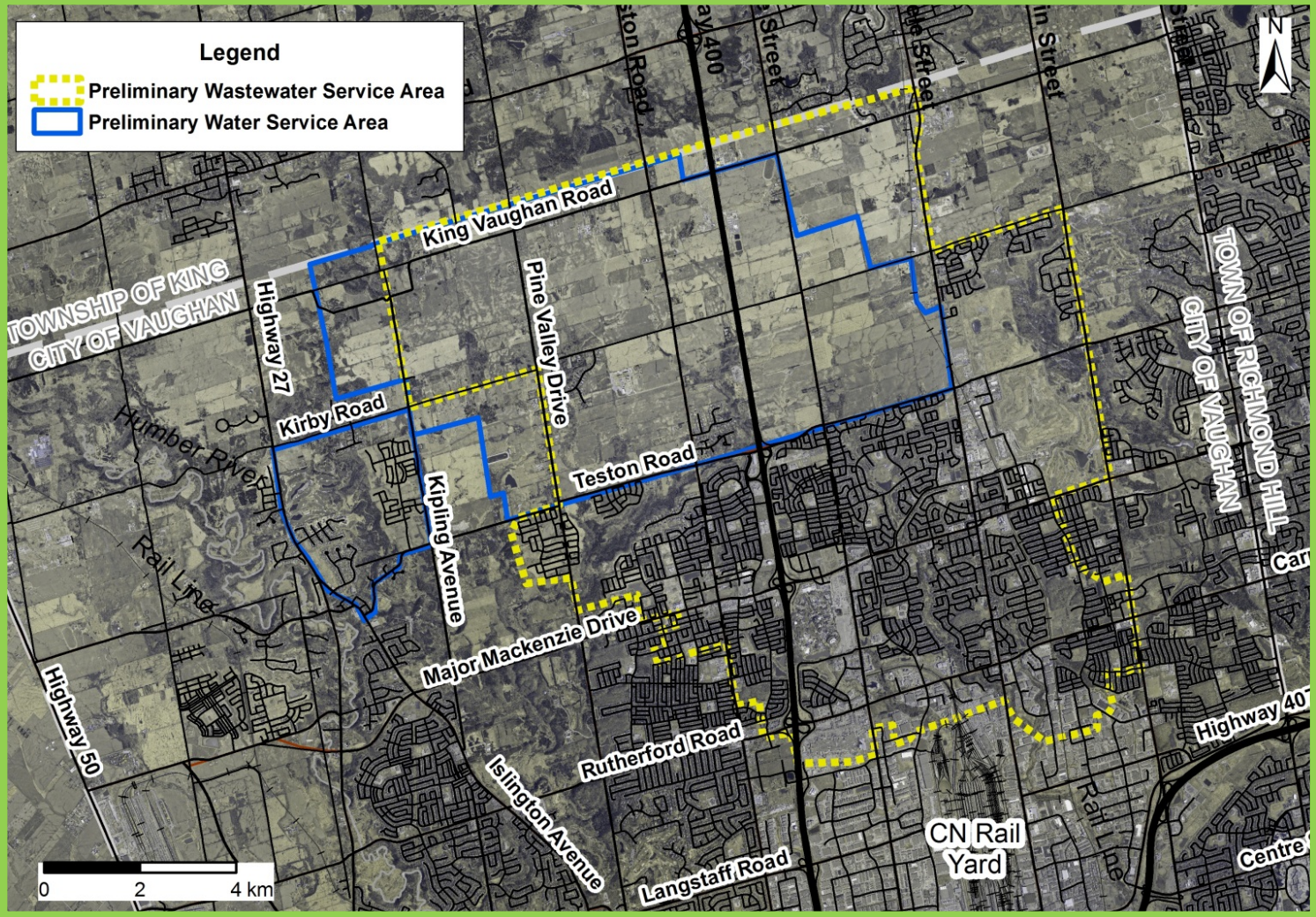
# Residential and Employment Population Growth to 2051



Total Population Growth by 2051: 1,120,000 people

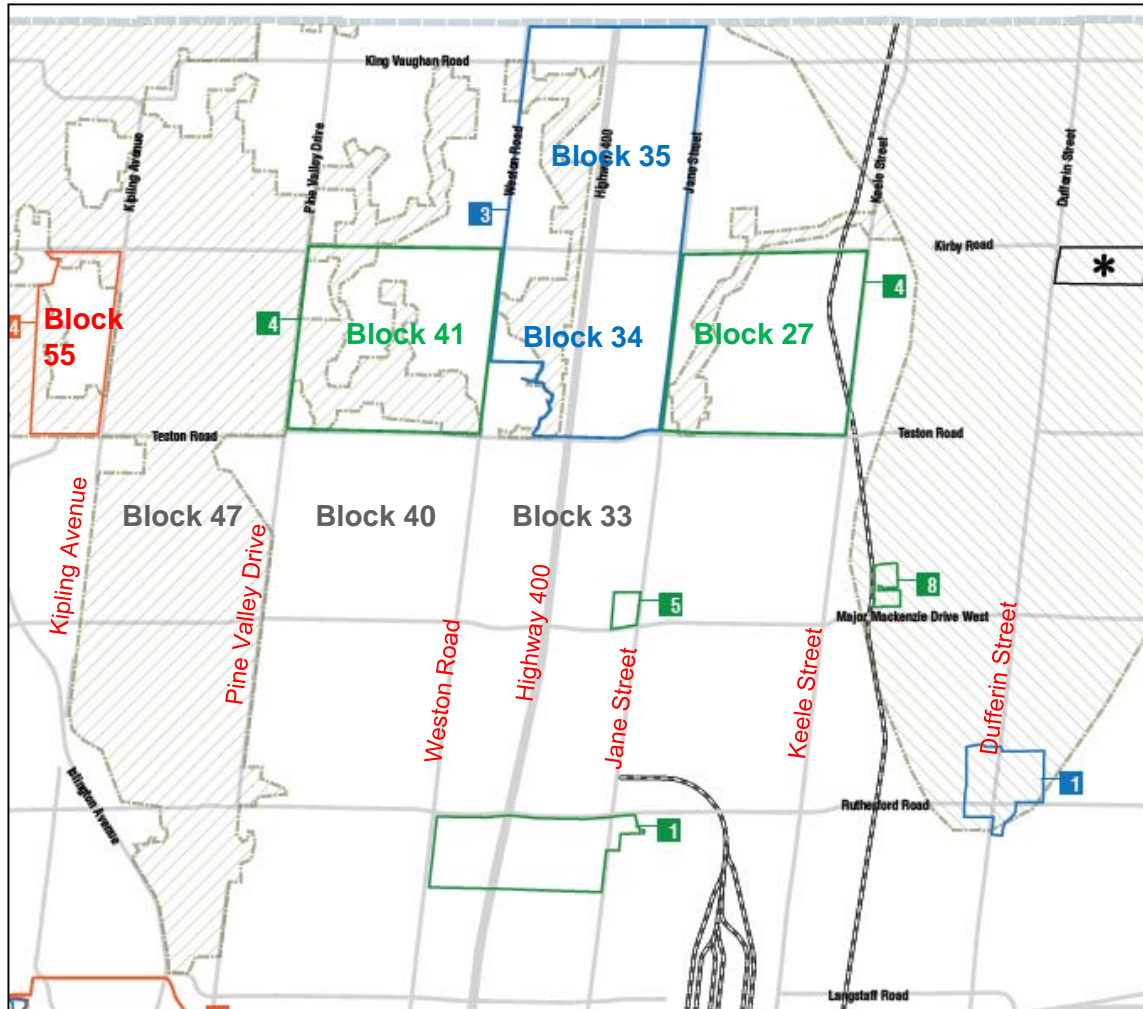


# Water & Wastewater Service Areas





# Northeast Vaughan Growth



- |  |   |
|--|---|
|  | Secondary Plan Areas - Chapter 11                 |
|  | 1 Carrville Centre Secondary Plan - 11.2          |
|  | 2 Steeles West Secondary Plan - 11.3              |
|  | 3 Highway 400 North Employment Lands - 11.4       |
|  | 4 Kipling Avenue - 11.5                           |
|  | Secondary Plan Areas to be Approved               |
|  | 1 Vaughan Metropolitan Centre                     |
|  | 2 Yonge Street Corridor                           |
|  | 3 Woodbridge Focused Area                         |
|  | 4 Kleinburg-Nashville Focused Area                |
|  | 5 West Vaughan Employment Area                    |
|  | Required Secondary Plan Areas                     |
|  | 1 Vaughan Mills Centre                            |
|  | 2 Weston Road and Highway 7                       |
|  | 3 Concord Centre                                  |
|  | 4 <u>New Community Areas (Blocks 41 &amp; 27)</u> |
|  | 5 Jane Street and Major Mackenzie Drive           |
|  | 6 Dufferin Street and Centre Street               |
|  | 7 Promenade Mall                                  |
|  | 8 Maple GO Station Area                           |

(Source: City of Vaughan Official Plan 2010 -<http://www.vaughan.ca>)

# Stakeholder Engagement

PROJECT TEAM

Stakeholder Advisory  
Committee (SAC)

Technical Advisory  
Committee (TAC)

SAC and TAC Meetings

Public Meetings, Notices

Project Webpage – [york.ca](http://york.ca)

Individual Meetings

# Introductions

- Project Team
- Stakeholder Advisory Committee members

**Please introduce yourself with the following four pieces of information:**

1. Name
2. Organization
3. Stakeholder group you represent
4. Particular interests in the project

## **2. Stakeholder Advisory Committee Terms of Reference Review**

# Stakeholder Advisory Committee Terms of Reference Review

- Mandate
- Membership
- Meeting organization and format
- Expectation of members
- Decision-making

# SAC Mandate

1. Share information/knowledge
2. Ensure informed stakeholder participation
3. Assist in identifying community issues
4. Review/comment on presentations, communication materials and reports
5. Serve as a liaison between the project team and the member organizations

# SAC Membership

Stakeholder Advisory Committee Member	Organization	Seat
Ms. Tammy Silverstone	York Region	York Region
Ms. Lara Marchetti	York Region	York Region
Mr. Jeff McNeice	York Region	York Region
Mr. Michael Frieri	City of Vaughan	City of Vaughan (Engineering & Planning)
Mr. Andrew Pearce	City of Vaughan	City of Vaughan (Engineering & Planning)
Mr. Deepak Panjwani	City of Vaughan	City of Vaughan (Engineering & Planning)
1 Seat - VACANT	Vaughan Chamber of Commerce	Vaughan Chamber of Commerce
Mr. Al Steedman	Schaeffers	Building Industry & Land Development Association (BILD)
Mr. Robert Kenedy	Mackenzie Ridge Ratepayers' Association	Community Associations within the water and wastewater service areas
Mr. Ken Schwenger	Kleinburg & Area Ratepayers' Association	Community Associations within the water and wastewater service areas
Mr. Joe Csafordi	York Region Woodlot Association	Environmental/Special Interest groups
1 Seat - VACANT		Environmental/Special Interest groups
Mr. Gilbert Luk	York Region District School Board	Local institutions
Ms. Christine Hyde	York Catholic District School Board	Local institutions
Mr. George Guglielmin	Resident	Interested residents living within the service areas
Mr. Michael Testaguzza	Resident	Interested residents living within the service areas
Mr. Gerry Lynch	Cole Engineering Group	Businesses, Industrial & Commercial firms within the service areas
Ms. Rosemarie Humphries	Humphries Planning	Businesses, Industrial & Commercial firms within the service areas



# SAC Meeting Schedule

Meeting Number	Approximate Date	Description/Purpose
<b>SAC Meeting No. 1</b>	November 2014	<ul style="list-style-type: none"><li>• Project introduction</li><li>• SAC Terms of Reference</li><li>• Problem/opportunity to be addressed by the Project</li></ul>
<b>SAC Meeting No. 2</b>	February 2015	<ul style="list-style-type: none"><li>• Alternatives and recommended solutions for water and wastewater</li></ul>
<b>SAC Meeting No. 3</b>	September 2015	<ul style="list-style-type: none"><li>• Design alternatives and recommended designs for water and wastewater</li></ul>
<b>SAC Meeting No. 4</b>	March 2016	<ul style="list-style-type: none"><li>• Draft Project File Report review</li></ul>

# Expectations of SAC Members

1. Attend each meeting or send a pre-registered alternate in his/her place
2. Arrive on time and stay for the duration
3. Respect each other's opportunity to be heard and the viewpoints of others
4. Review agendas and related material in advance of the meetings
5. Review meeting minutes within seven days of circulation
6. Be courteous and respectful of one another

# Decision-Making

- Non-voting advisory committee – makes recommendations for consideration
- Seek consensus when making recommendations
- Ensure each representative has the opportunity to be heard and has come to an understanding, not necessarily agreement, on the recommendation being put forward
- Project Team will take all recommendations into consideration as part of project decision-making

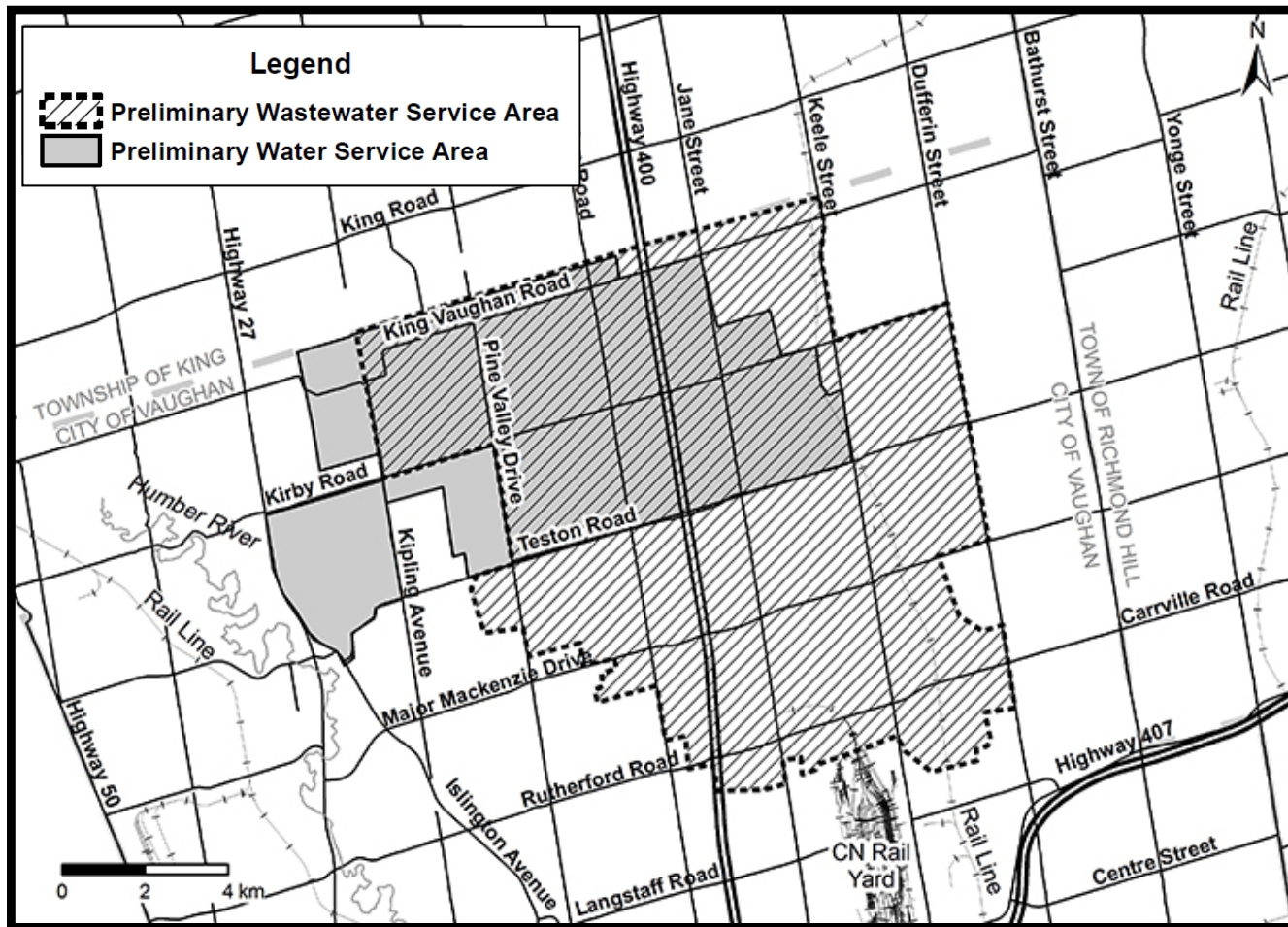
# Sharing Contact Information



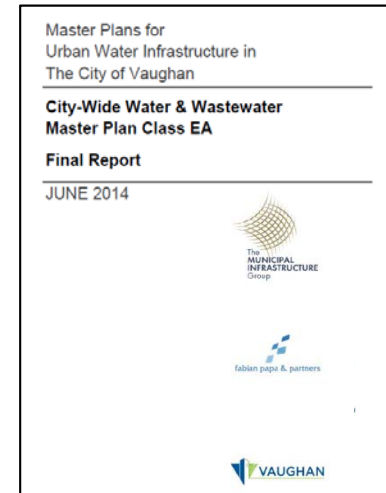
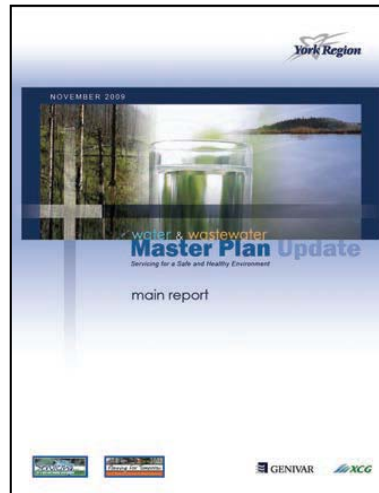
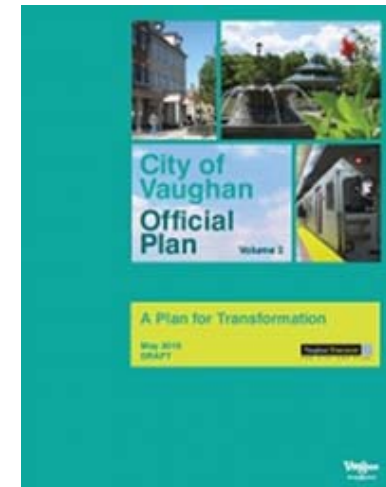
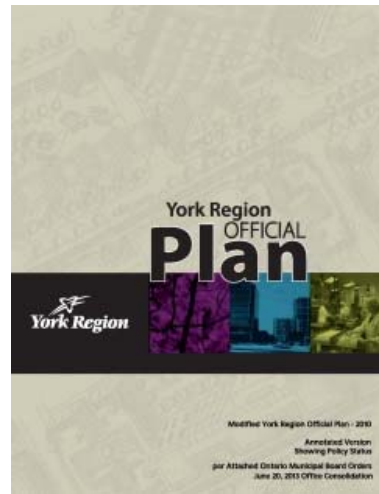
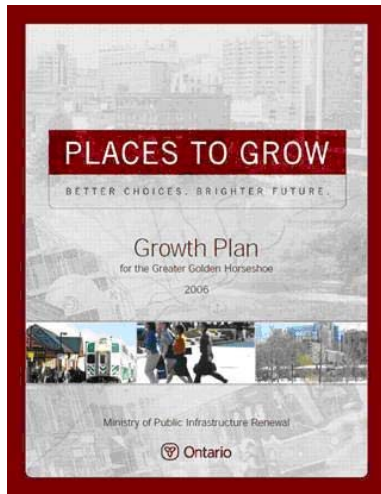
# 3. Project Overview

# Project Purpose:

*To identify the water and wastewater infrastructure needed to service anticipated growth in northeast Vaughan to 2051*

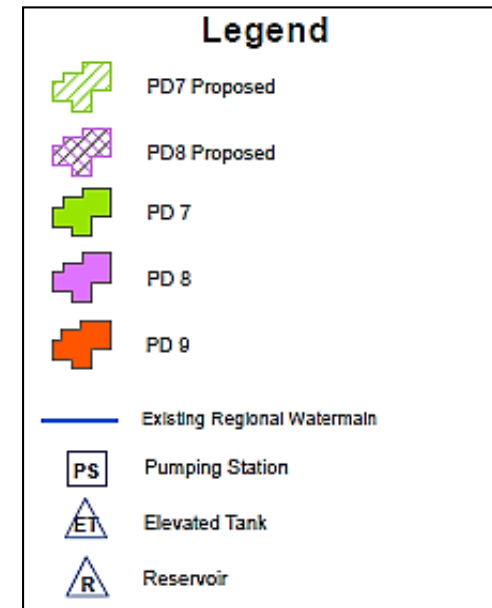
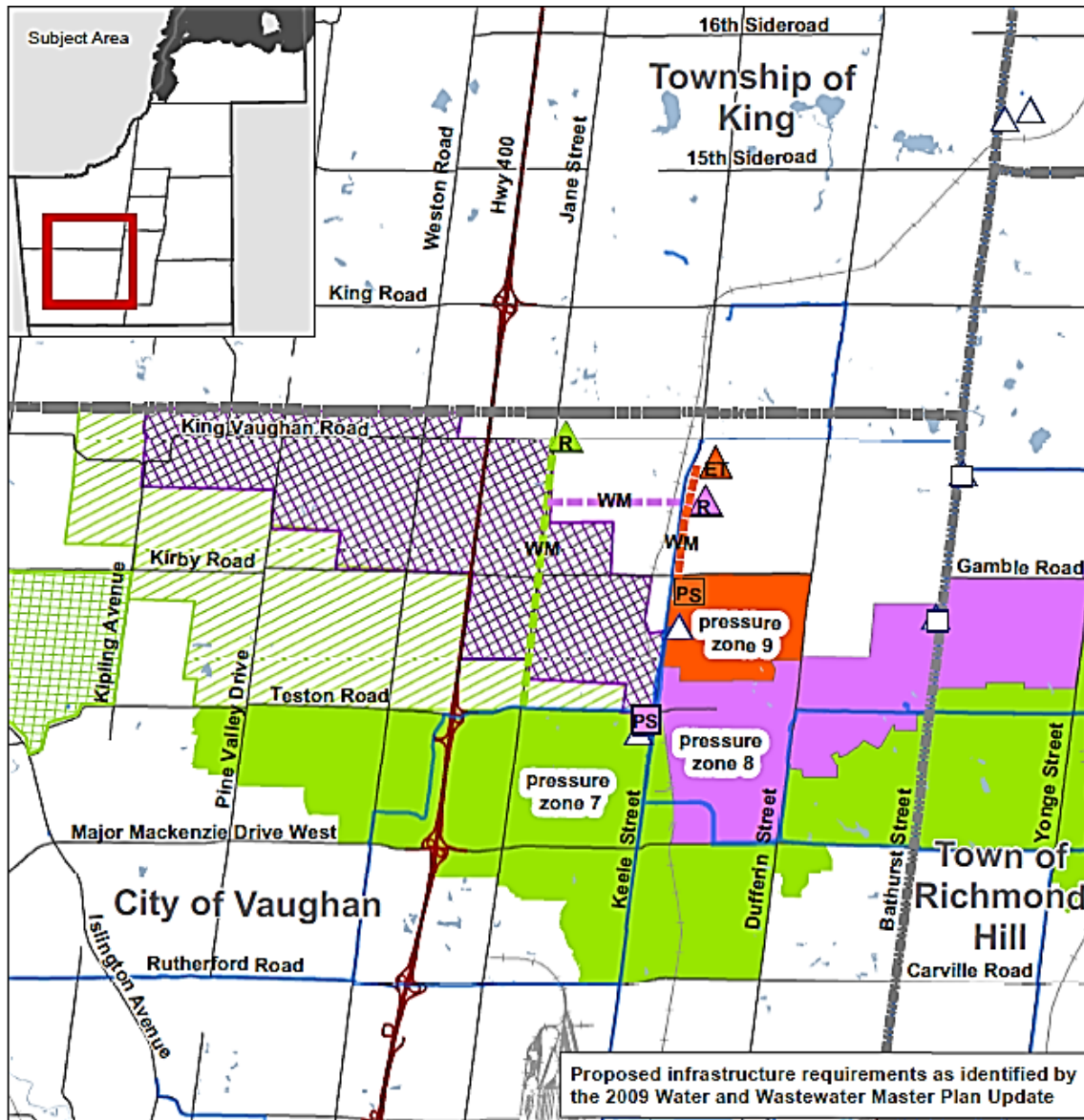


# Accommodating York Region Growth



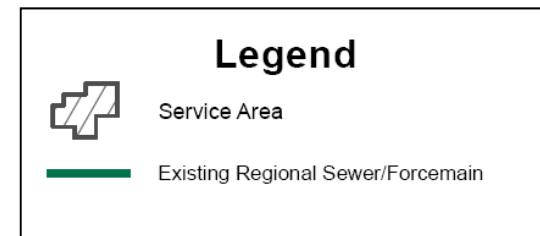
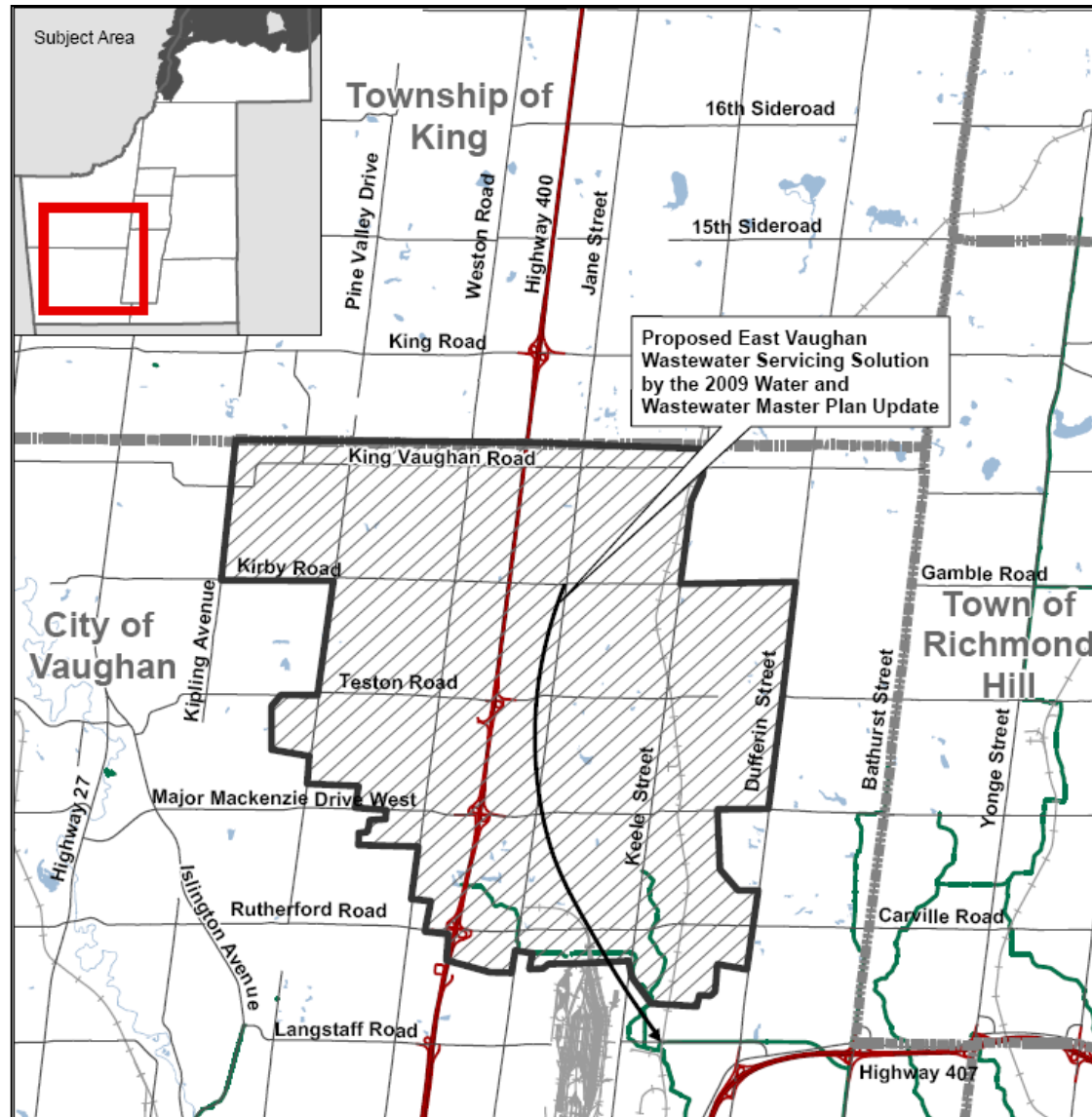


# 2009 Master Plan Update – Water

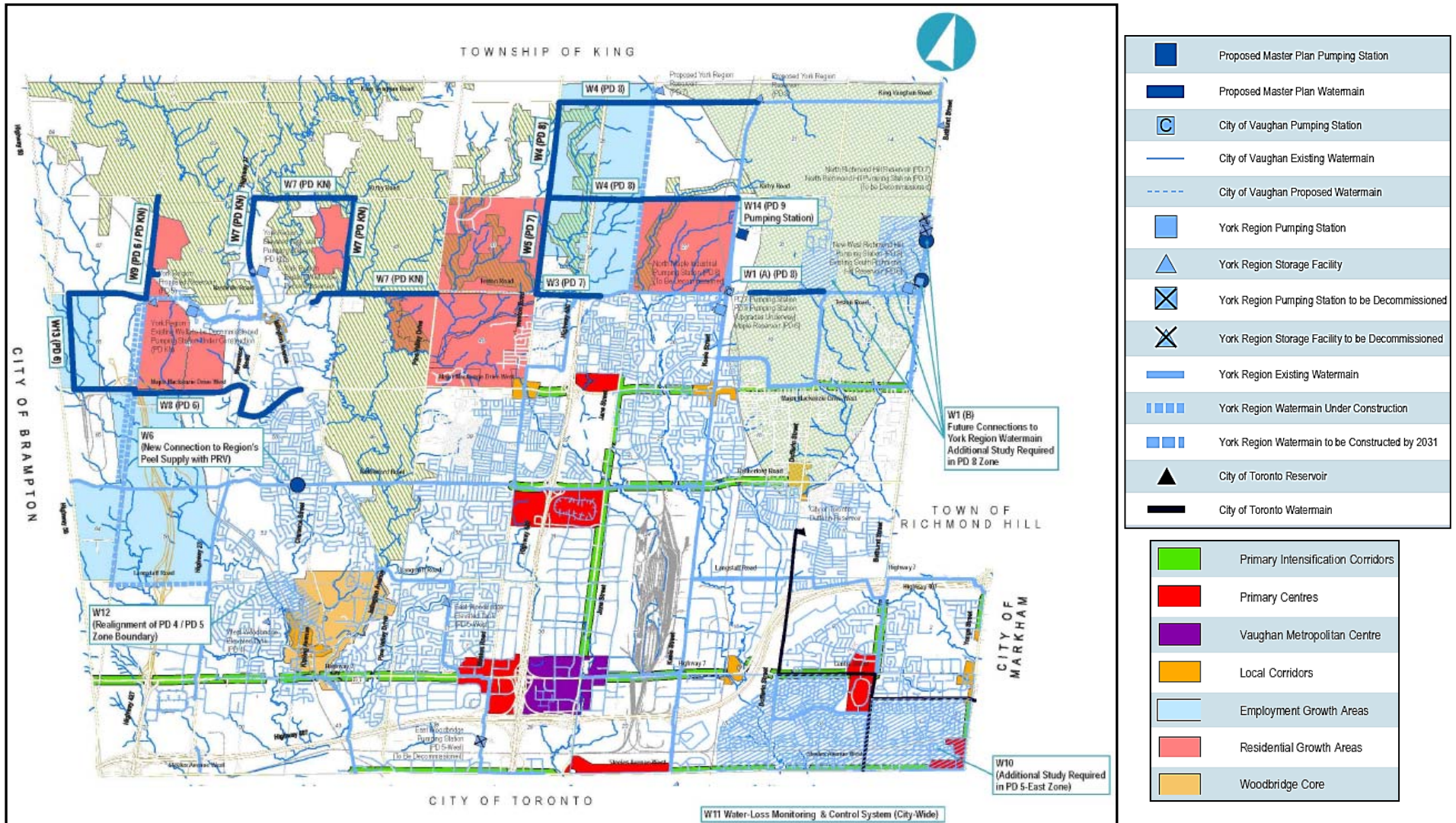




# 2009 Master Plan Update – Wastewater



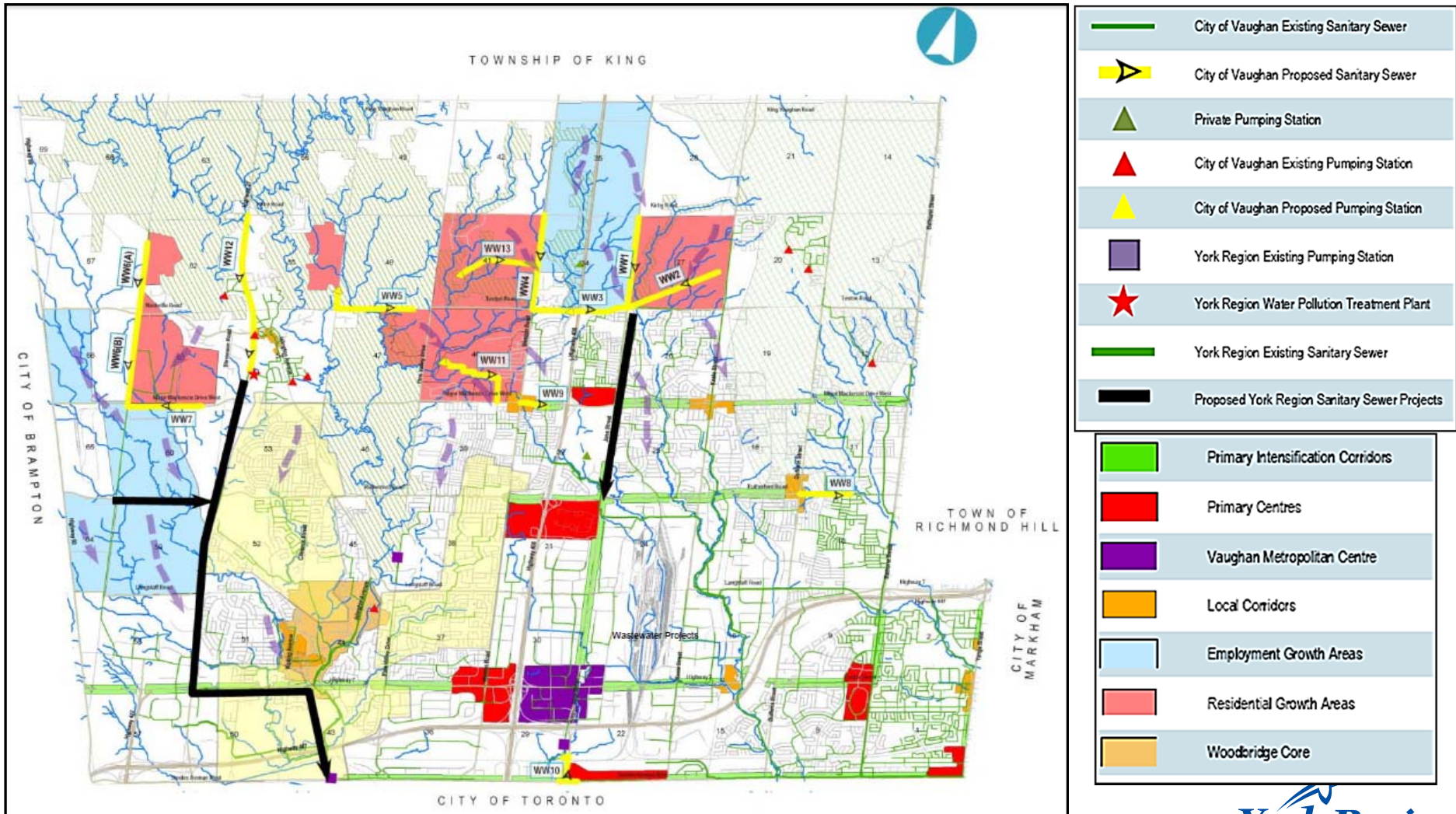
# City of Vaughan Master Plan - Water



(Source: City-Wide Water and Wastewater Master Plan: <http://www.vaughan.ca>)

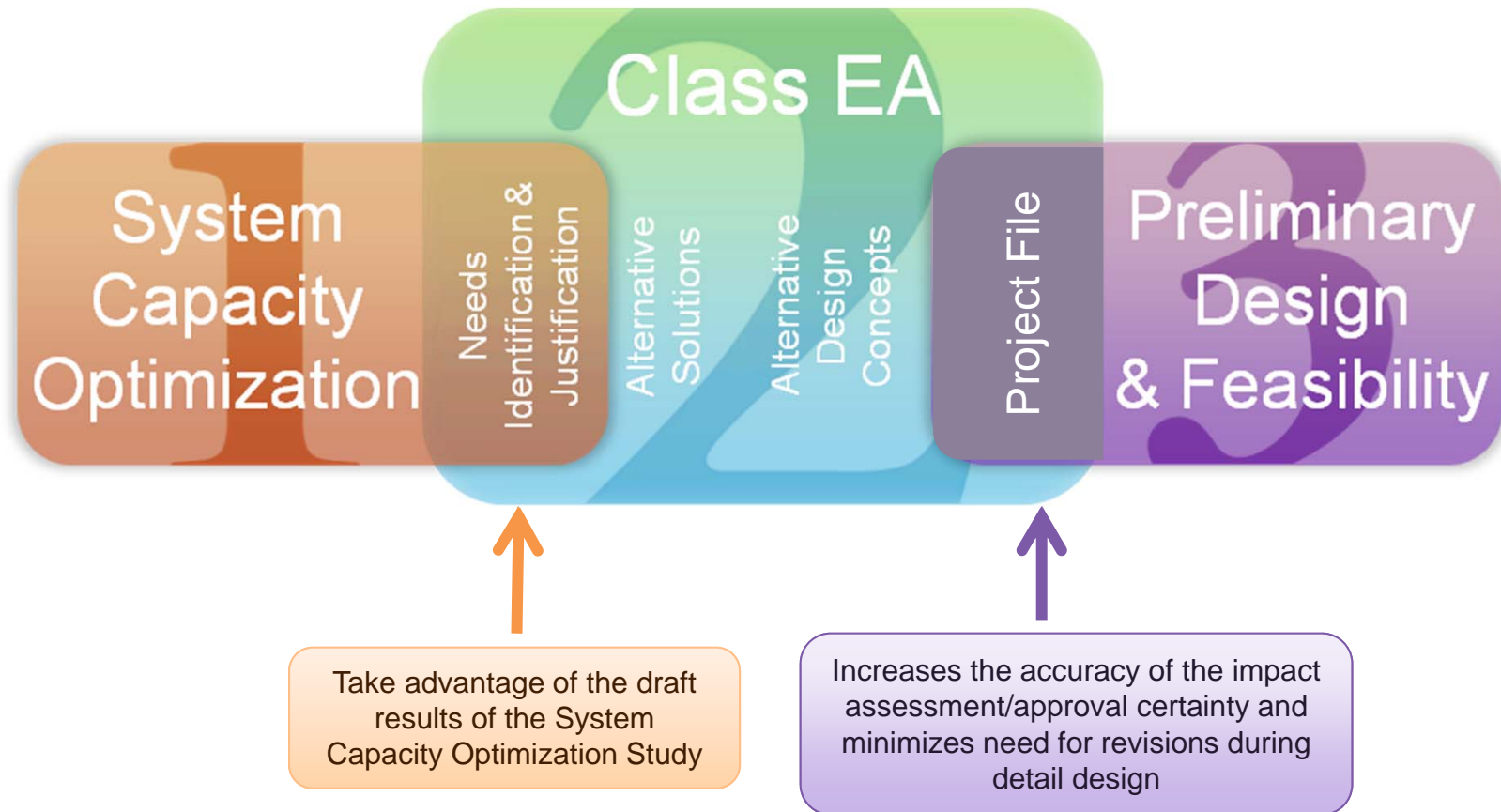


# City of Vaughan Master Plan- Wastewater



(Source: City-Wide Water and Wastewater Master Plan: <http://www.vaughan.ca>)

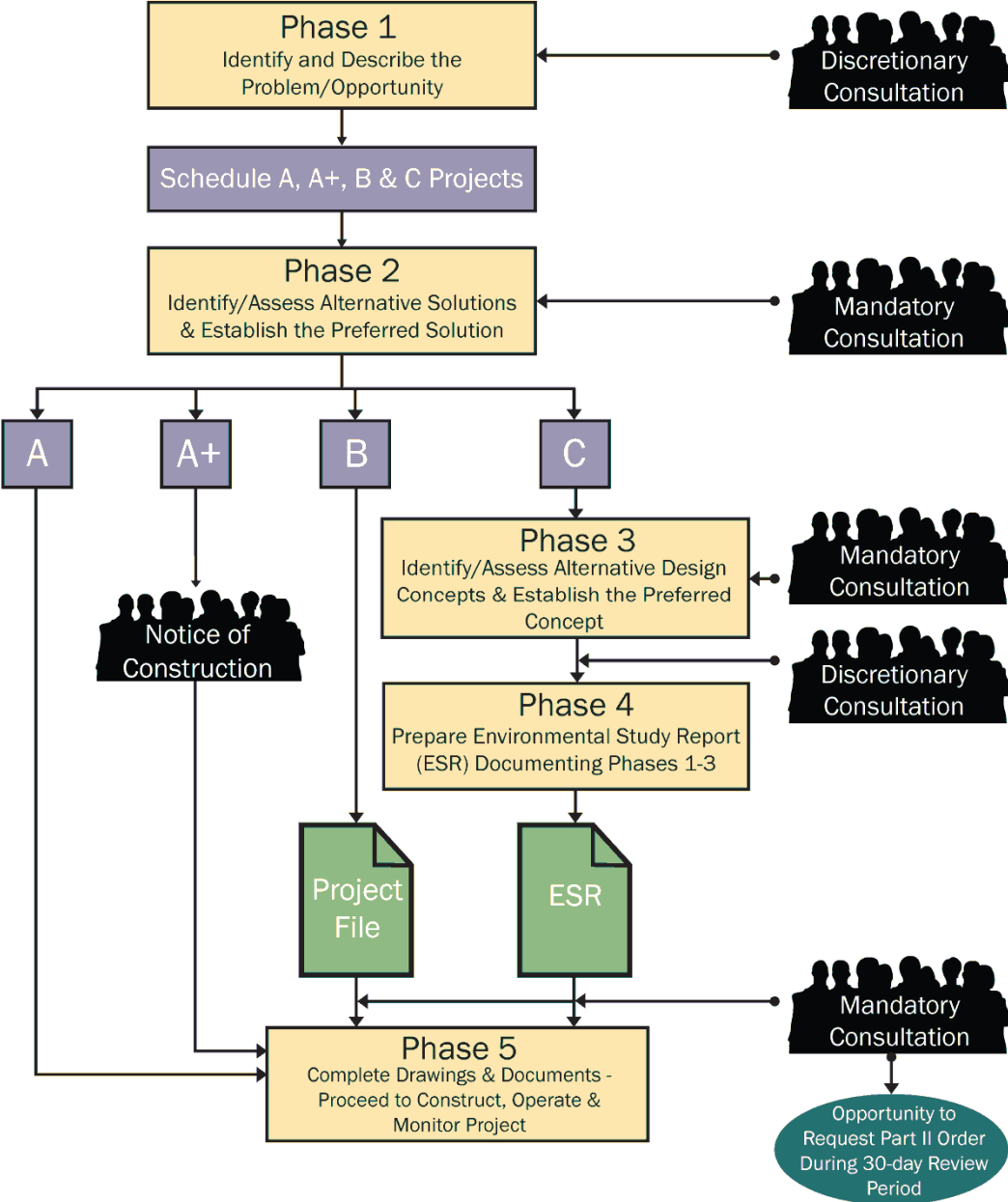
# Overall Project Approach



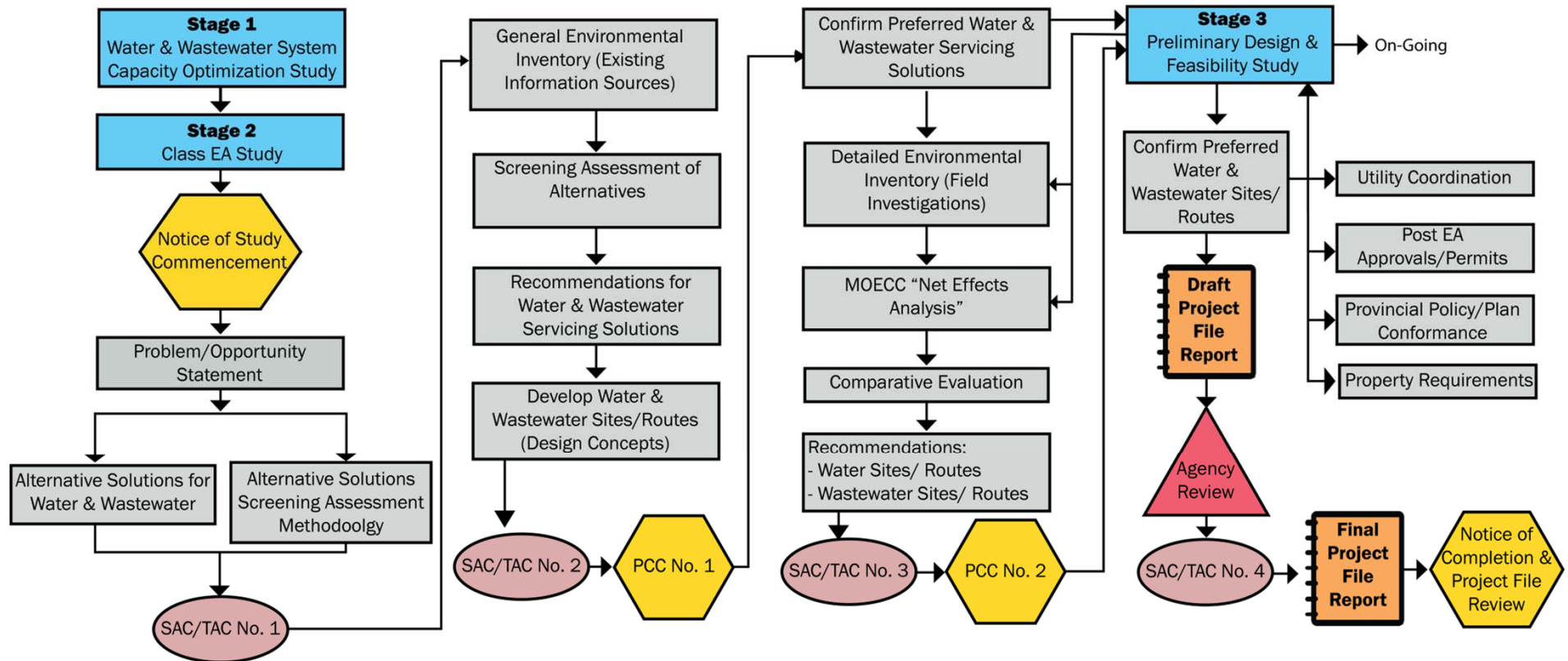
# Project Stages and Schedule

PROJECT STAGES AND MILESTONES	MILESTONE DATES
<b><u>Stage 1:</u></b> Water and Wastewater System Capacity Optimization Study	Jan to Dec 2014
<b><u>Stage 2:</u></b> Class EA Study Public Consultation Centre #1 Public Consultation Centre #2	Jun 2014 to Mar 2016 Feb 2015 Sep 2015
<b><u>Stage 3:</u></b> Preliminary Design and Feasibility Study	May 2015 to Apr 2016

# Municipal Class EA Process



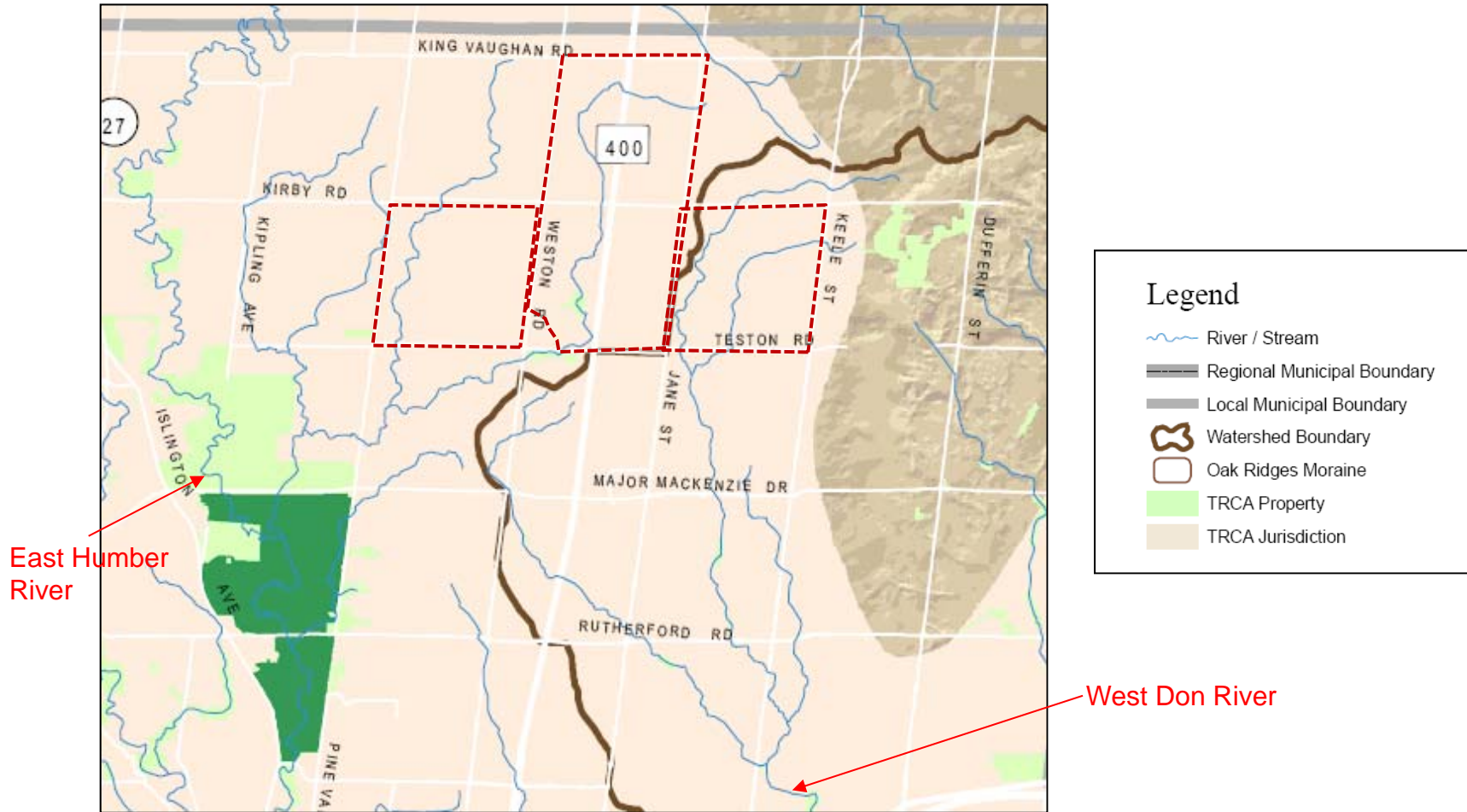
# Project Road Map



# Study Area Characteristics

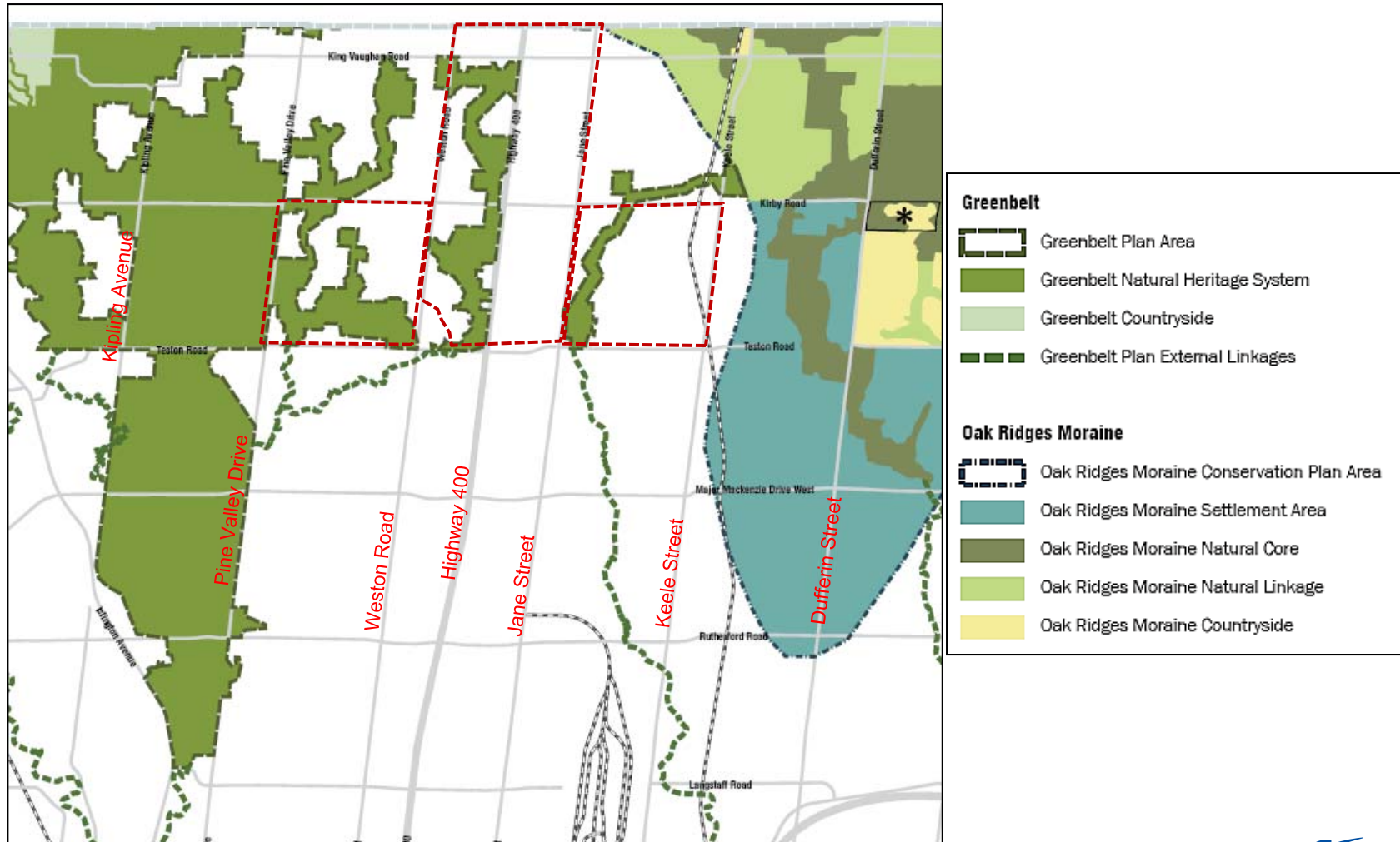


# East Humber River and West Don River



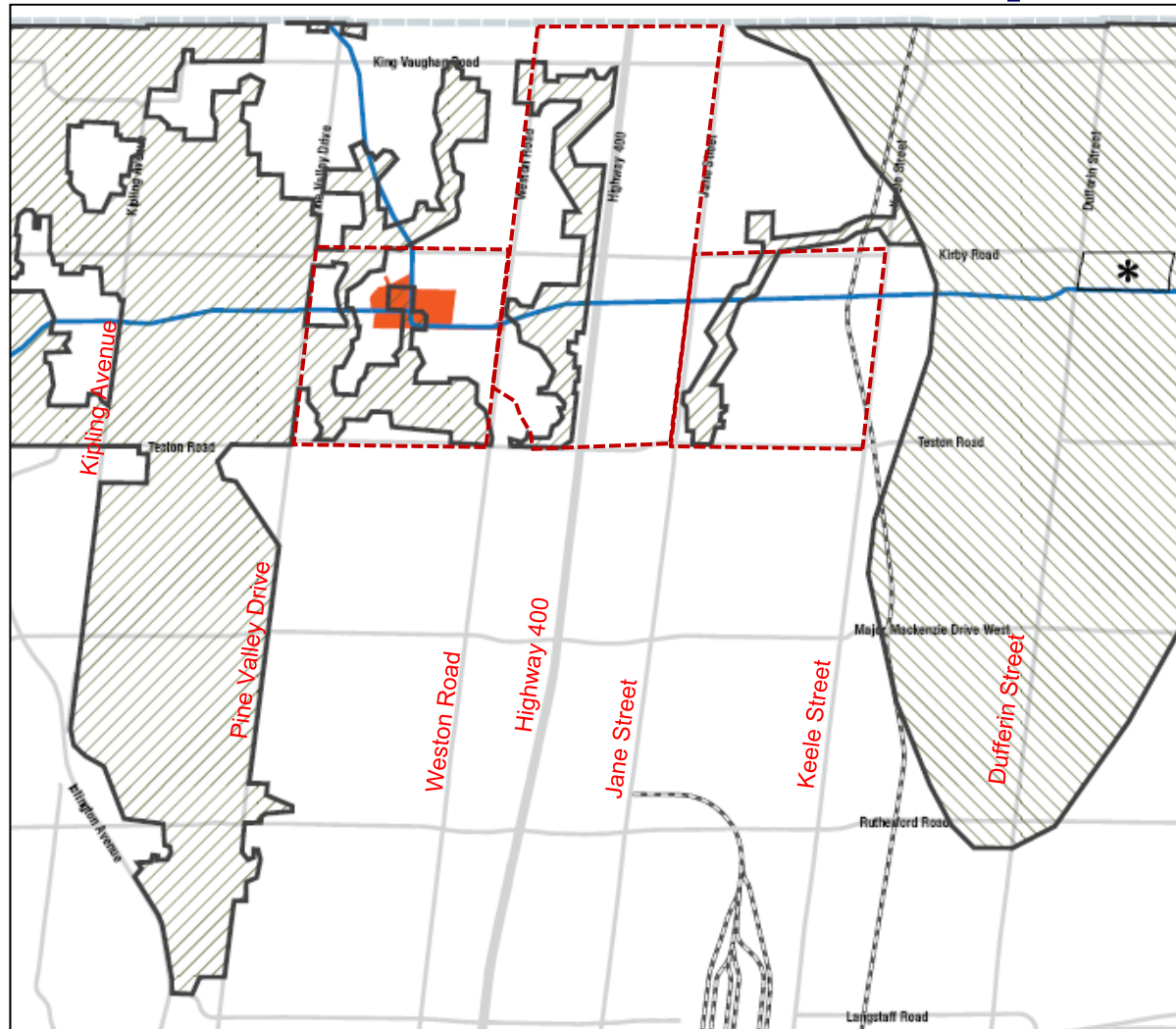
(Source: Toronto and Region Conservation Authority Website: [www.trca.on.ca](http://www.trca.on.ca))

# Greenbelt and Oak Ridges Moraine



(Source: City of Vaughan Official Plan 2010: <http://www.vaughan.ca>)

# TransCanada Pipelines



(Source: City of Vaughan Official Plan 2010: <http://www.vaughan.ca>)



# MacMillan Rail Yard

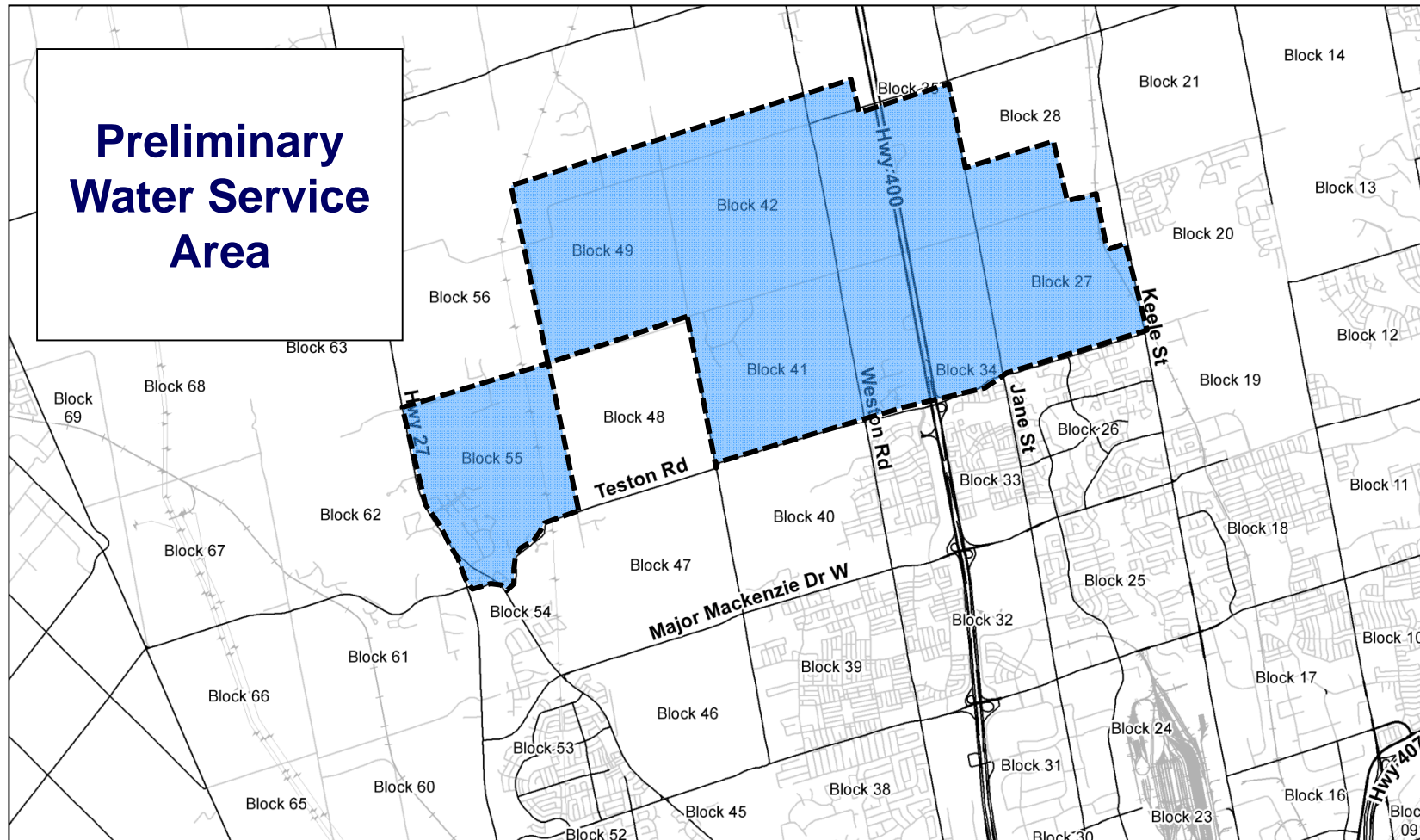


***BREAK***

## 4. Project Status

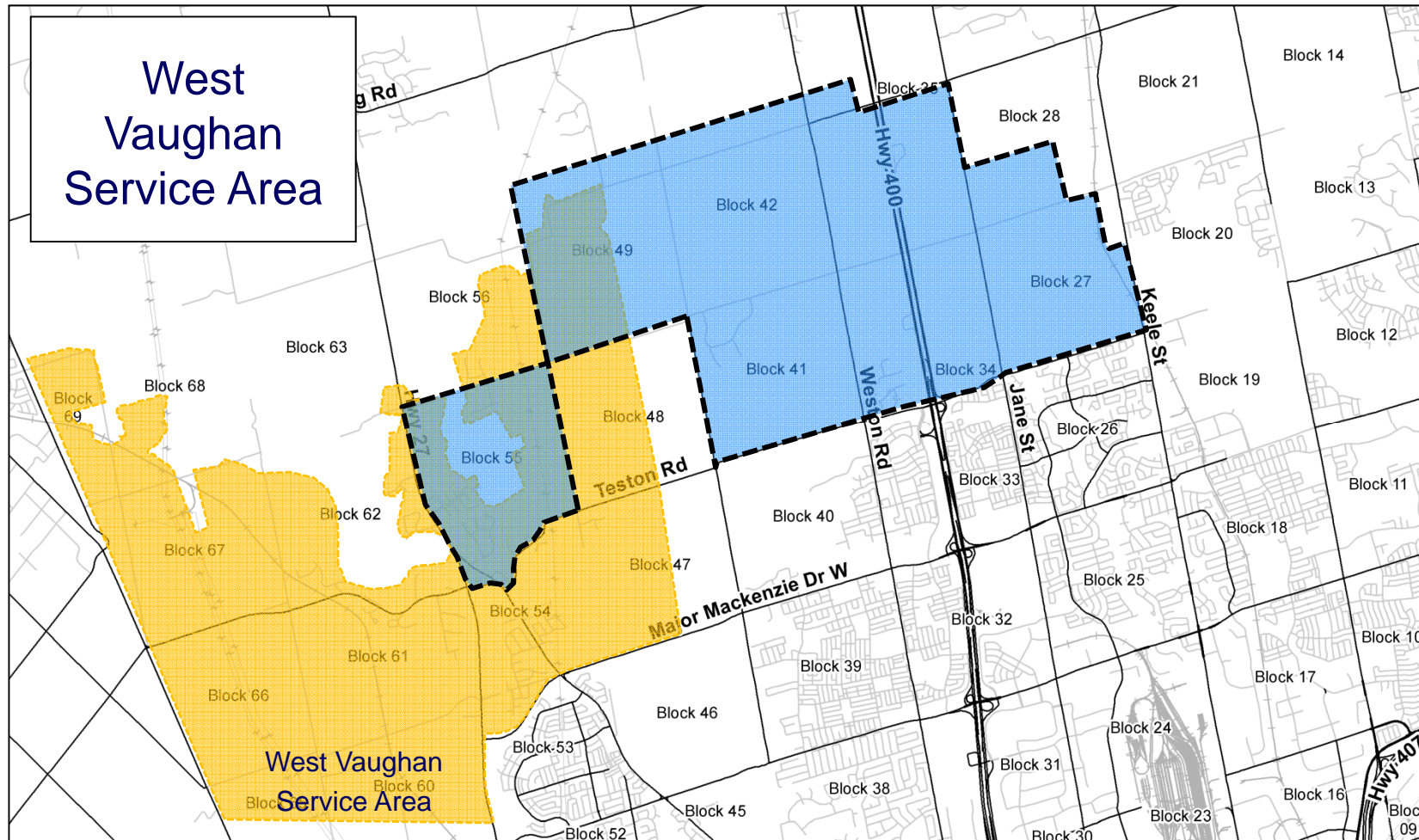
# Water Service Area Refinement

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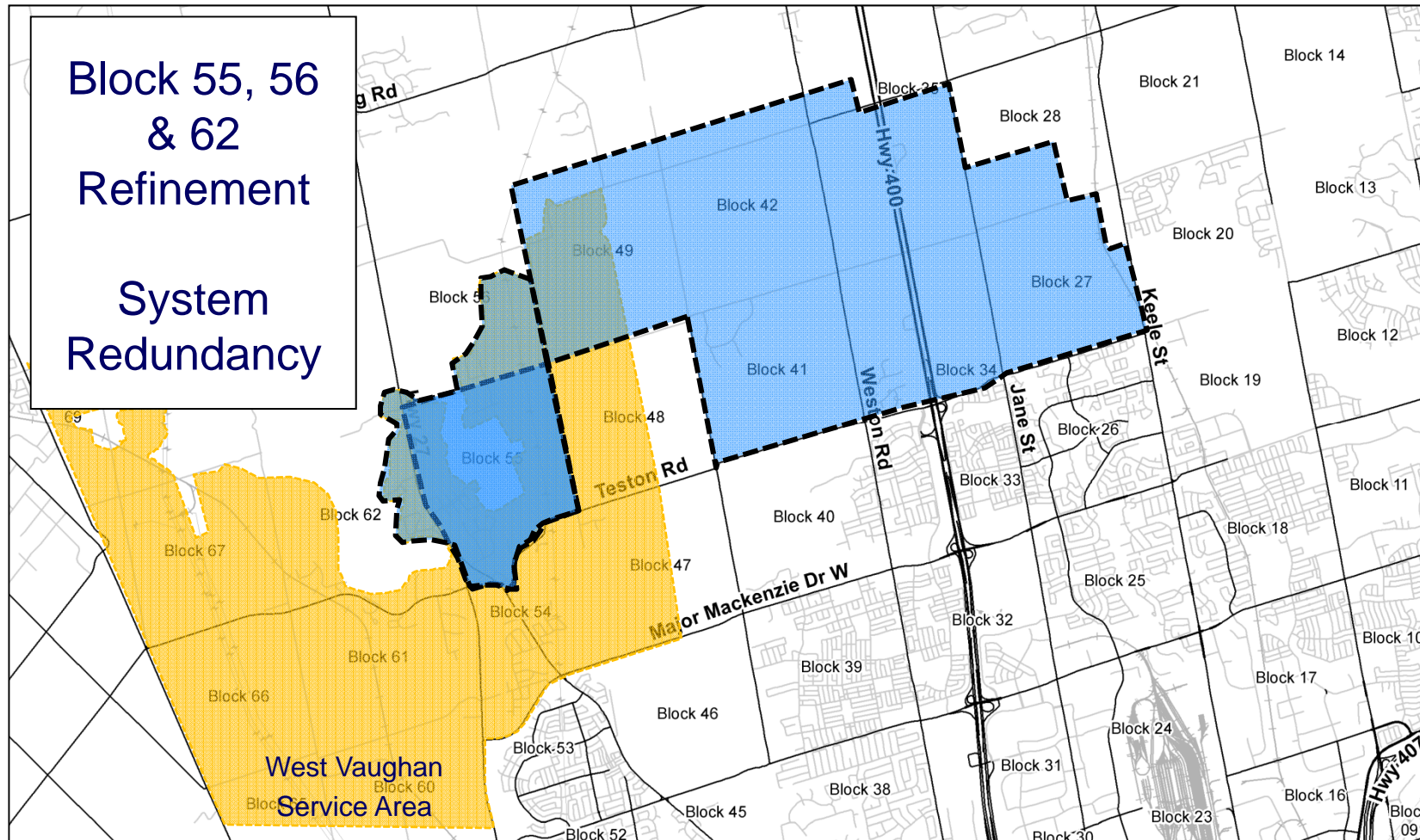




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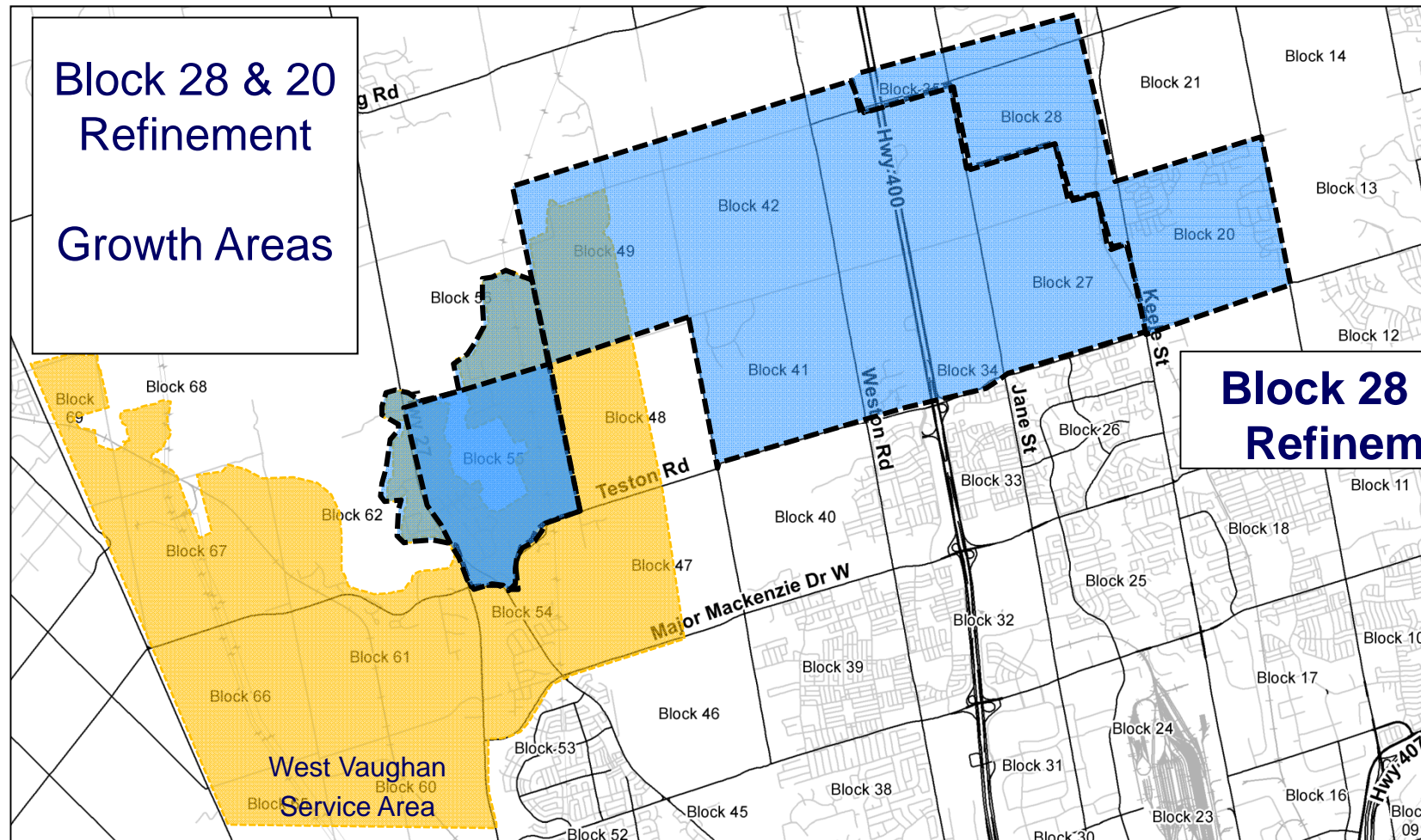


# Water Service Area Refinement

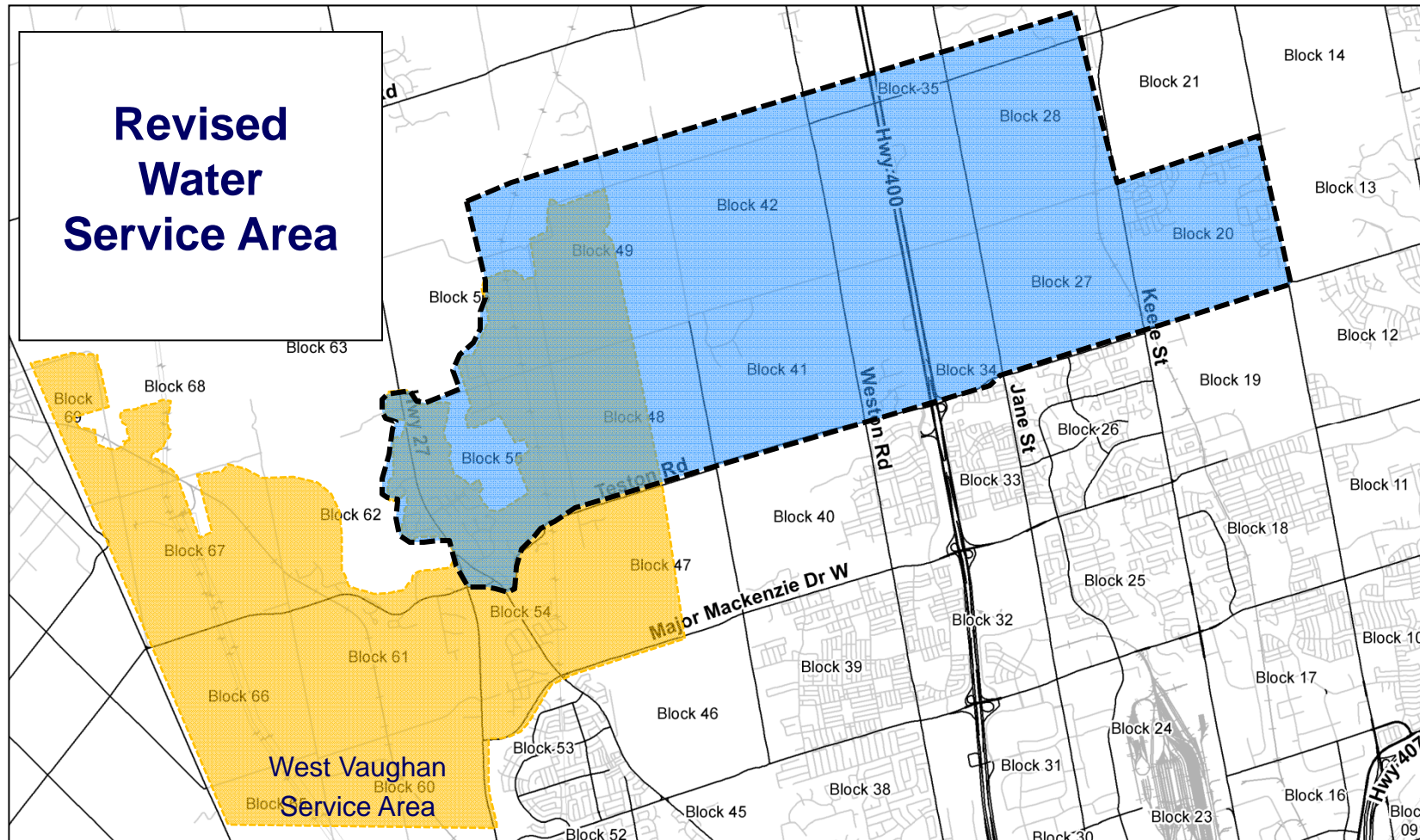




# Water Service Area Refinement



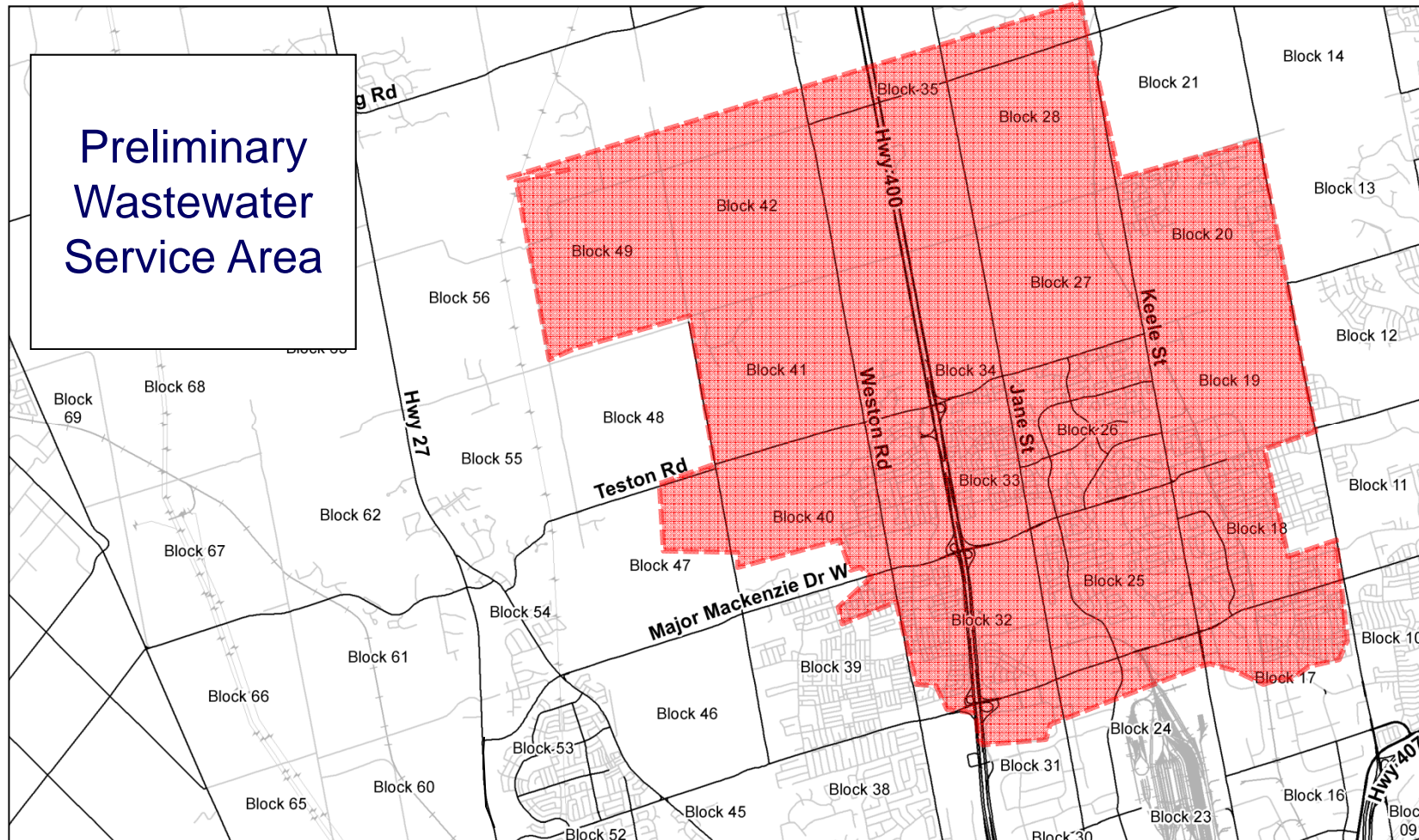
# Water Service Area Refinement



# Wastewater Service Area Refinement

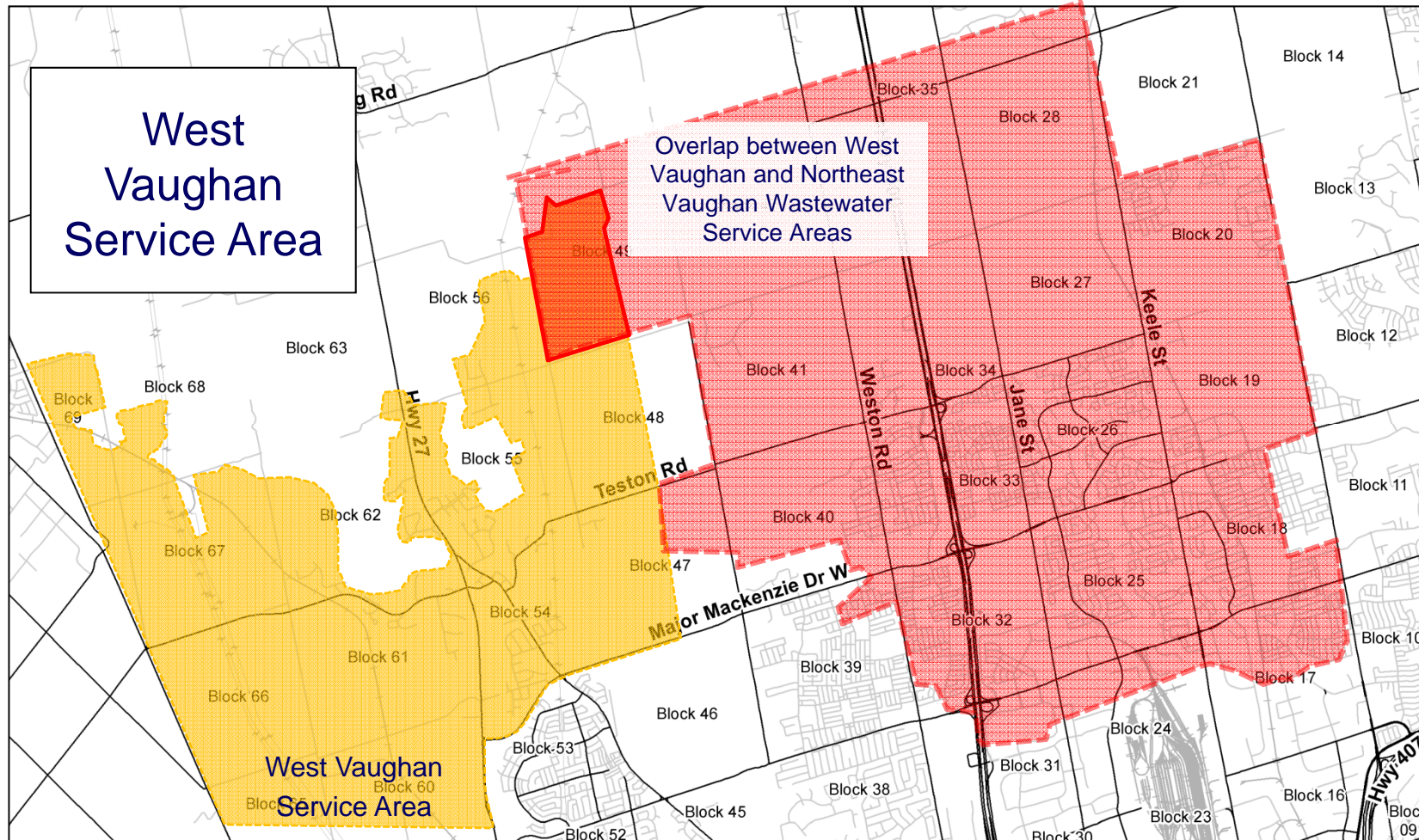


# Wastewater Service Area Refinement

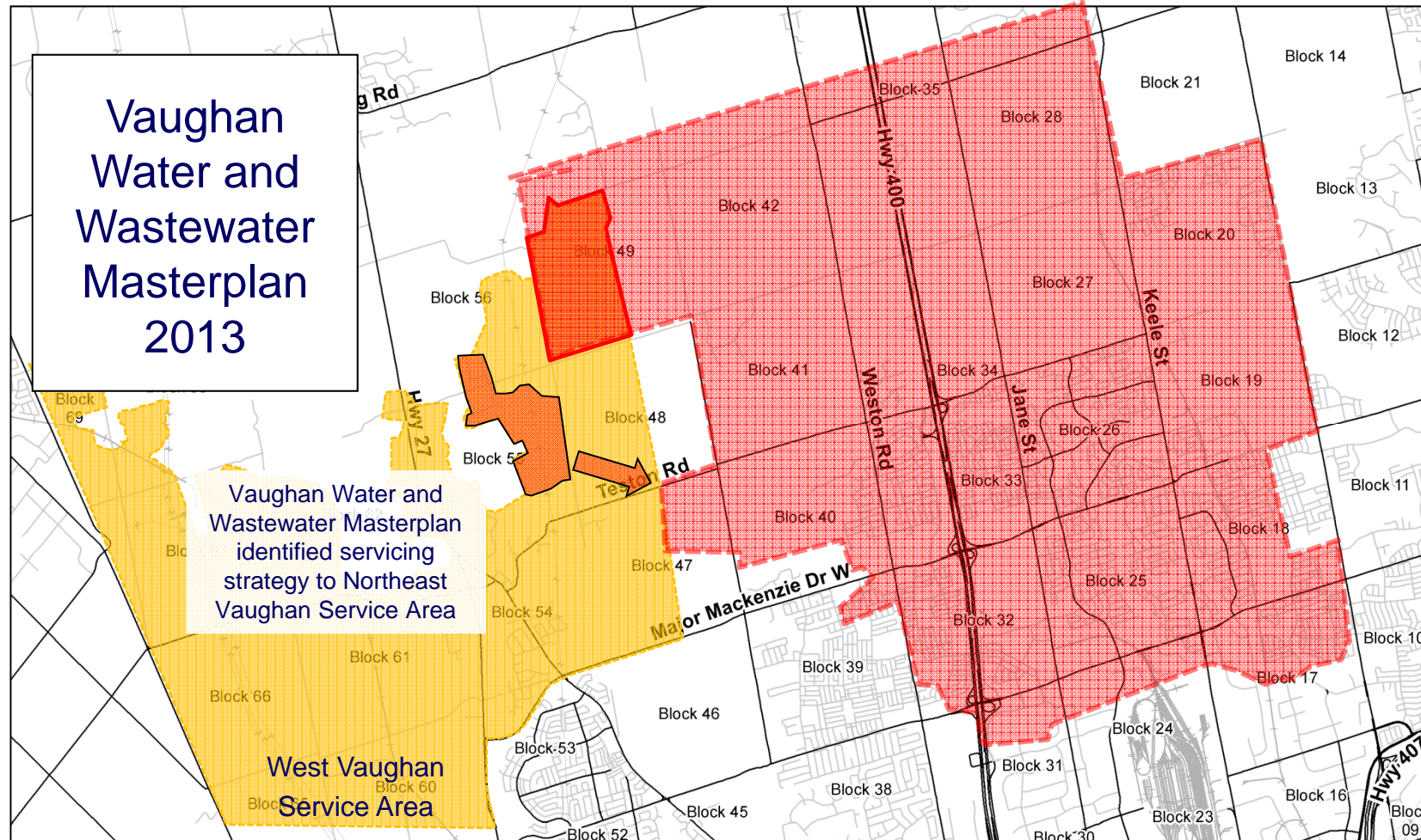




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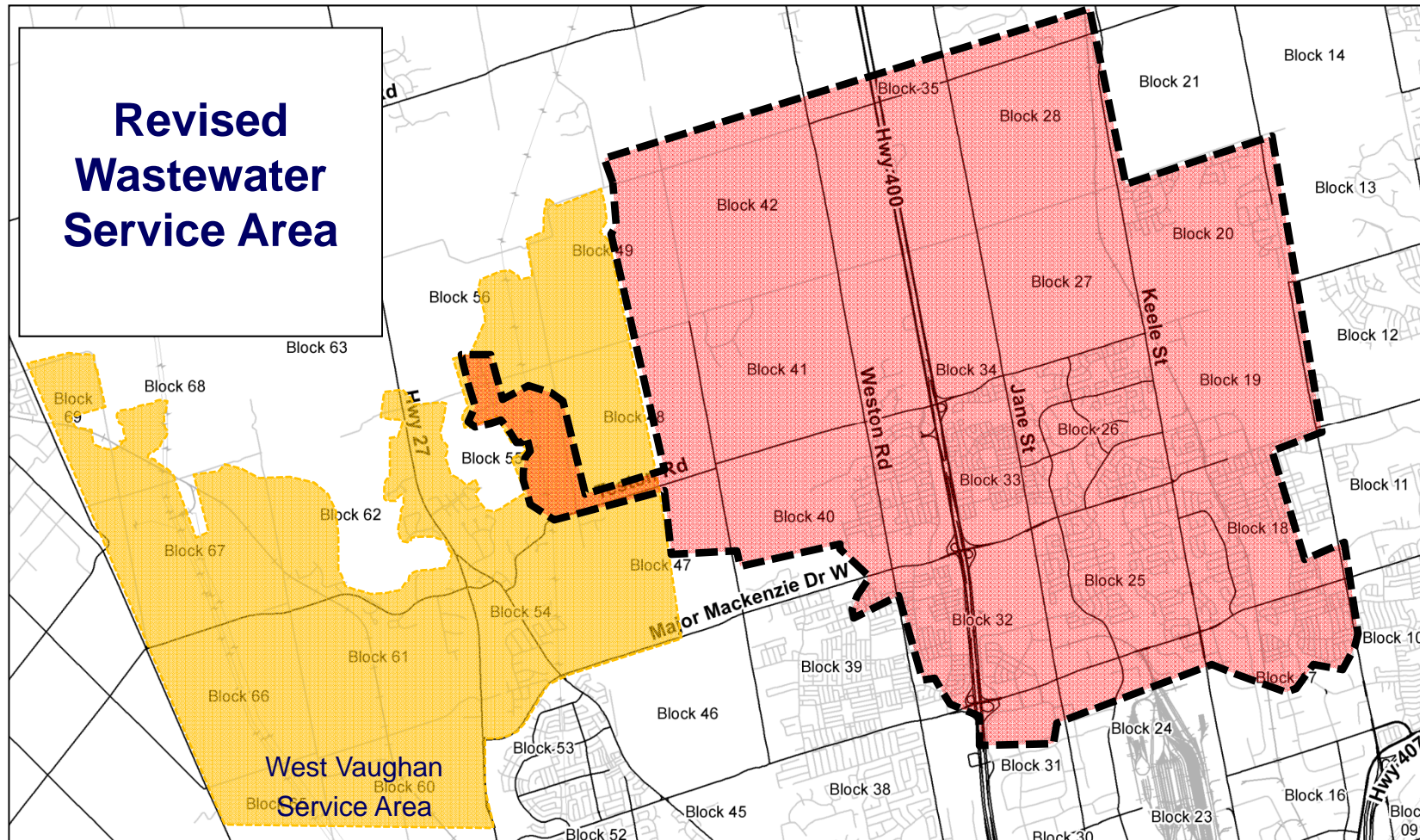


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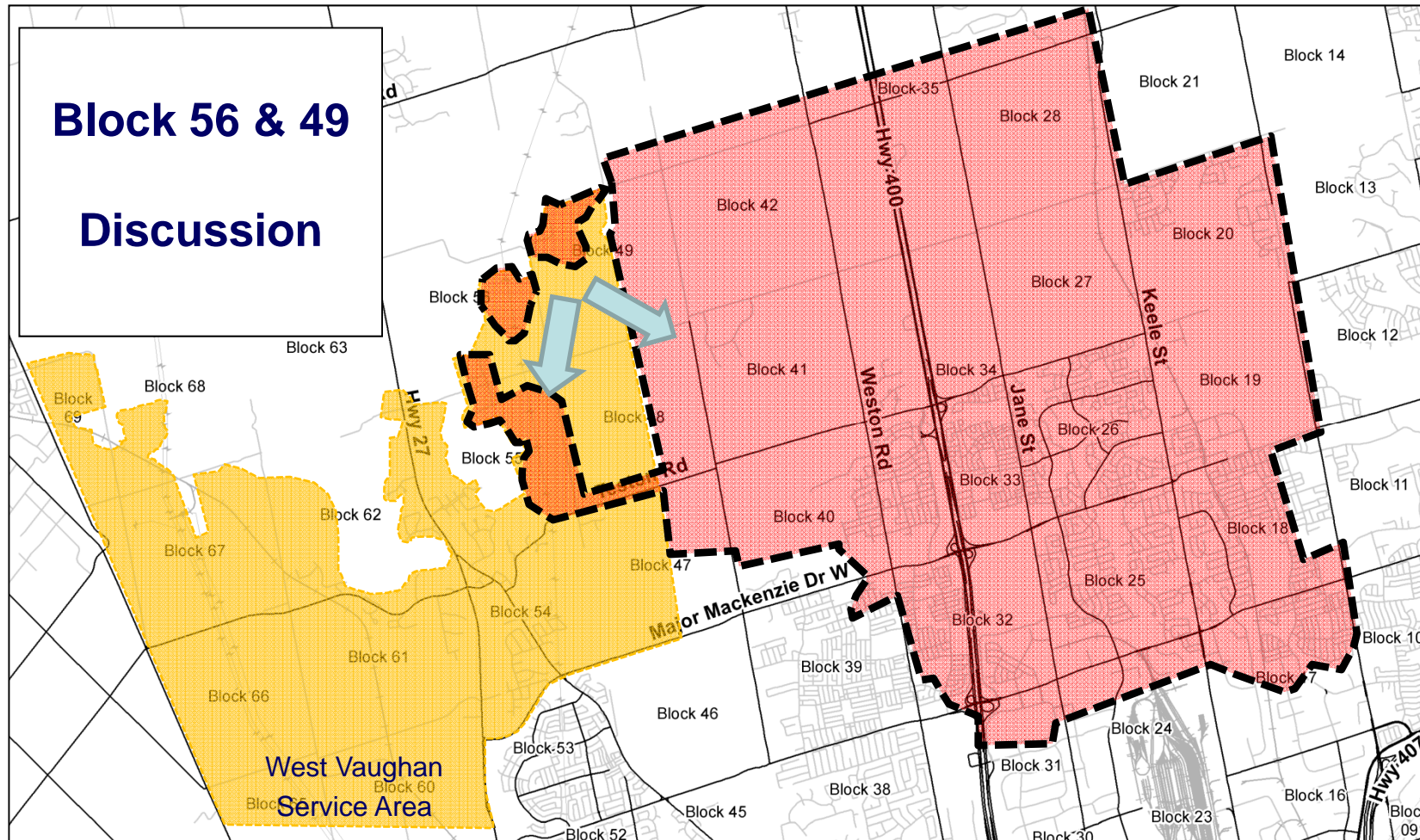




# Wastewater Service Area Refinement

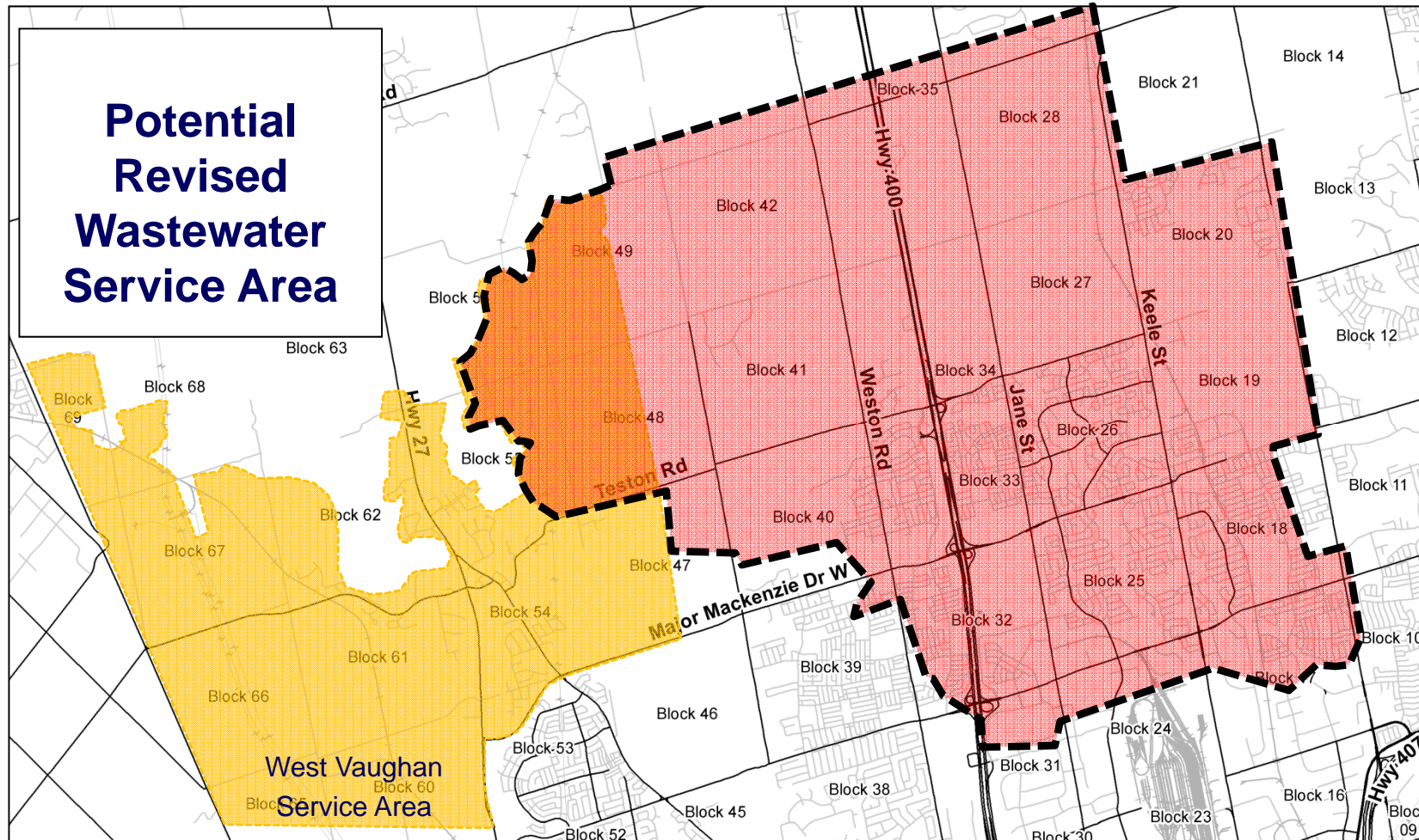


# Wastewater Service Area Refinement





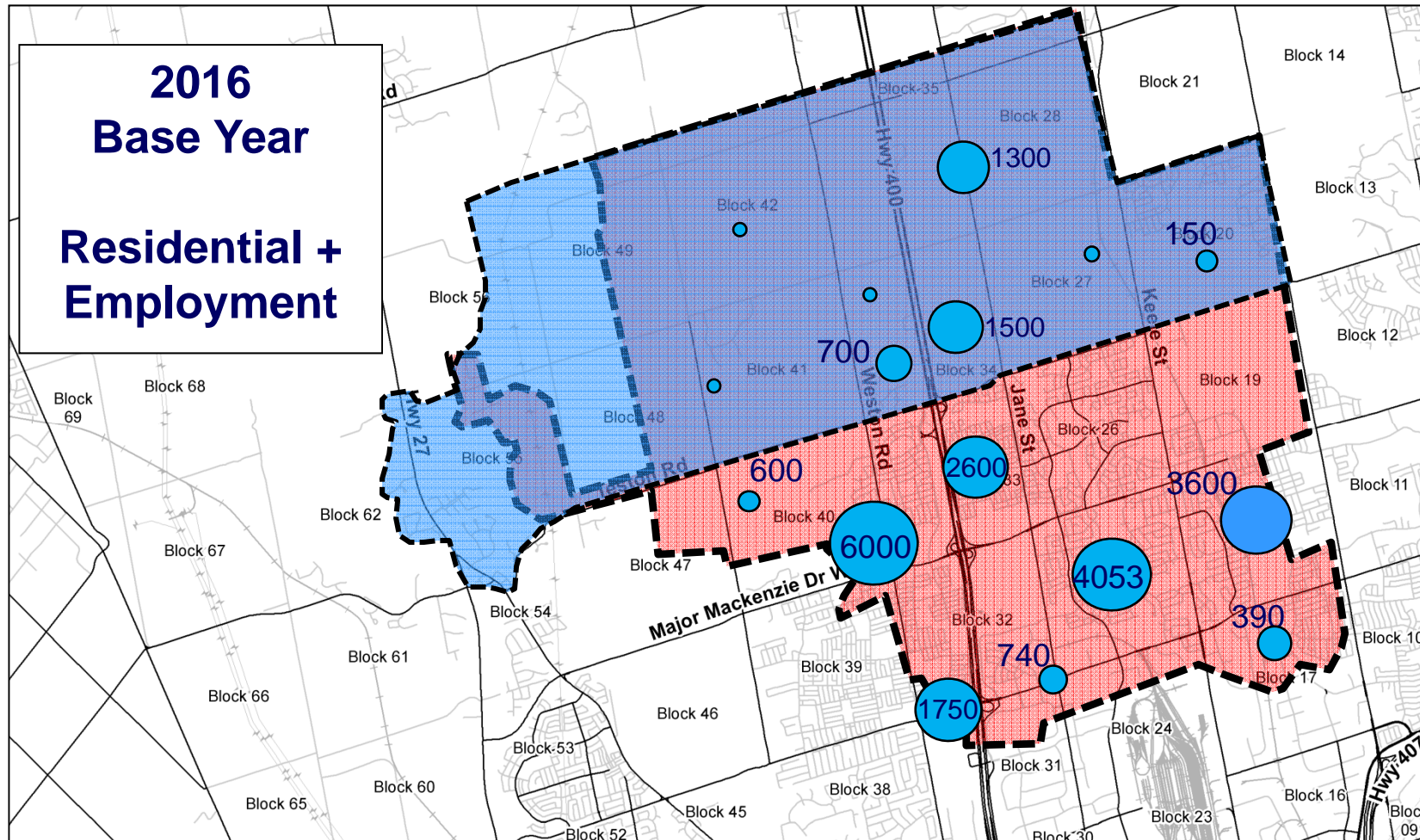
# Wastewater Service Area Refinement



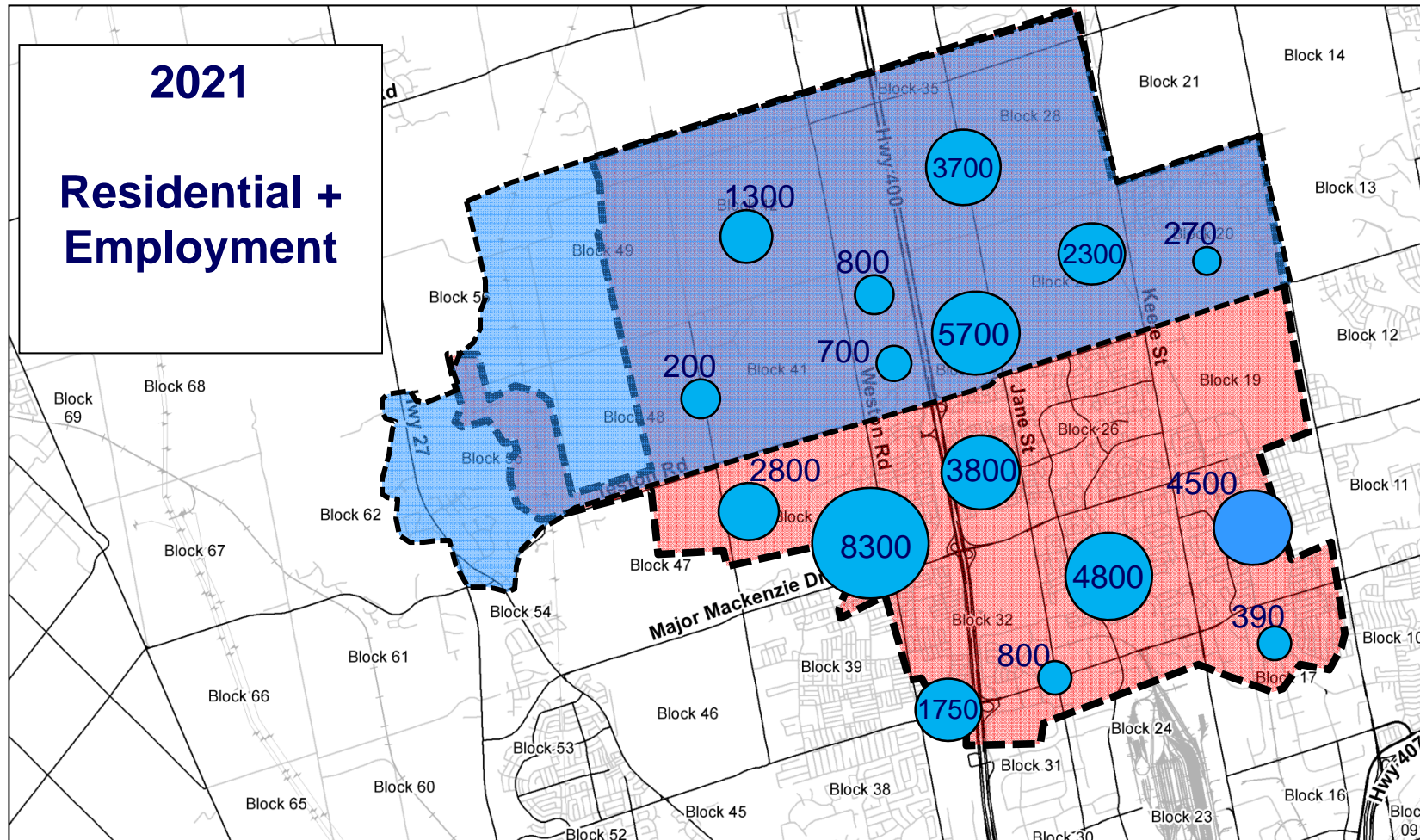
# Anticipated Population By Traffic Zone



# Anticipated Population by Traffic Zone

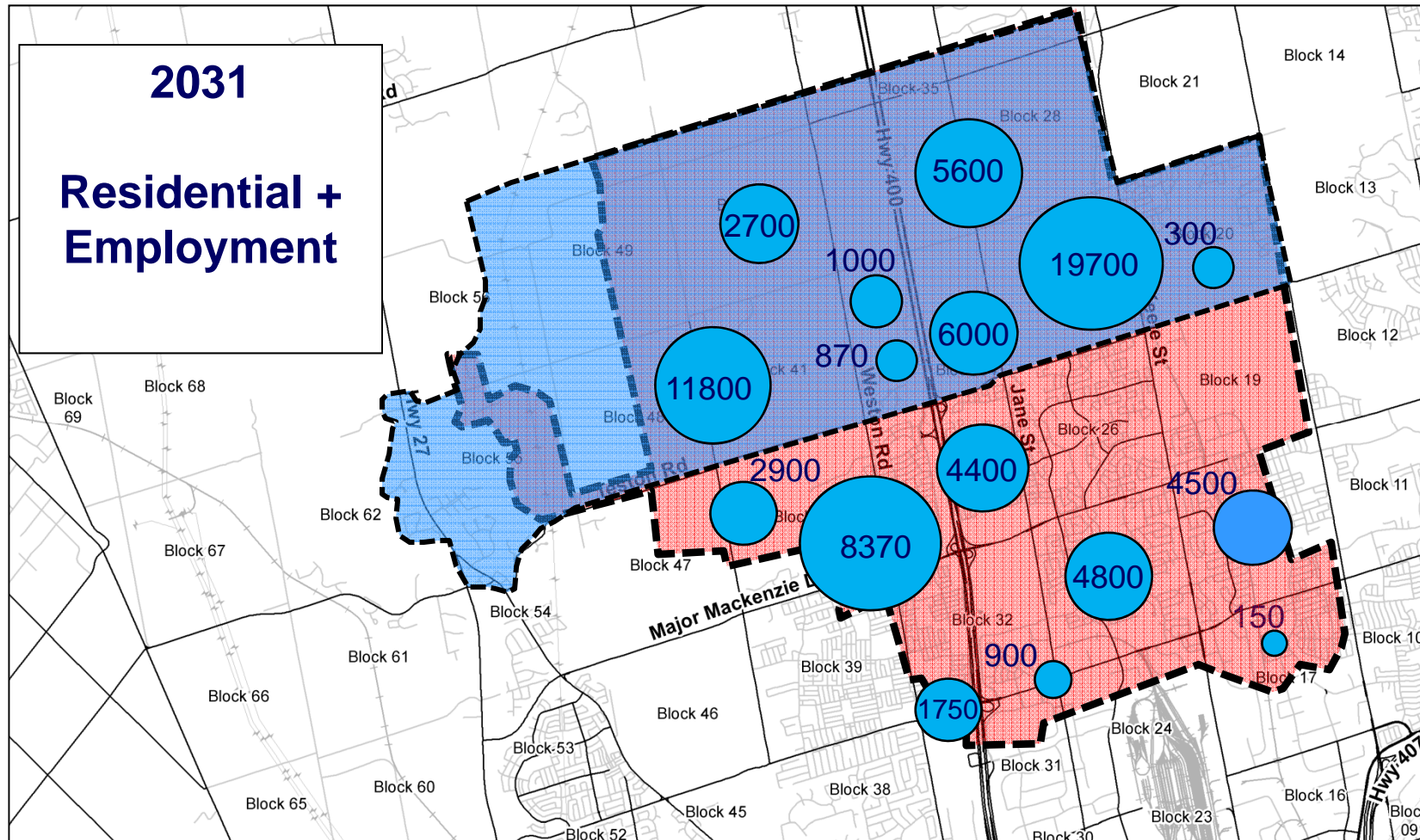


# Anticipated Population by Traffic Zone

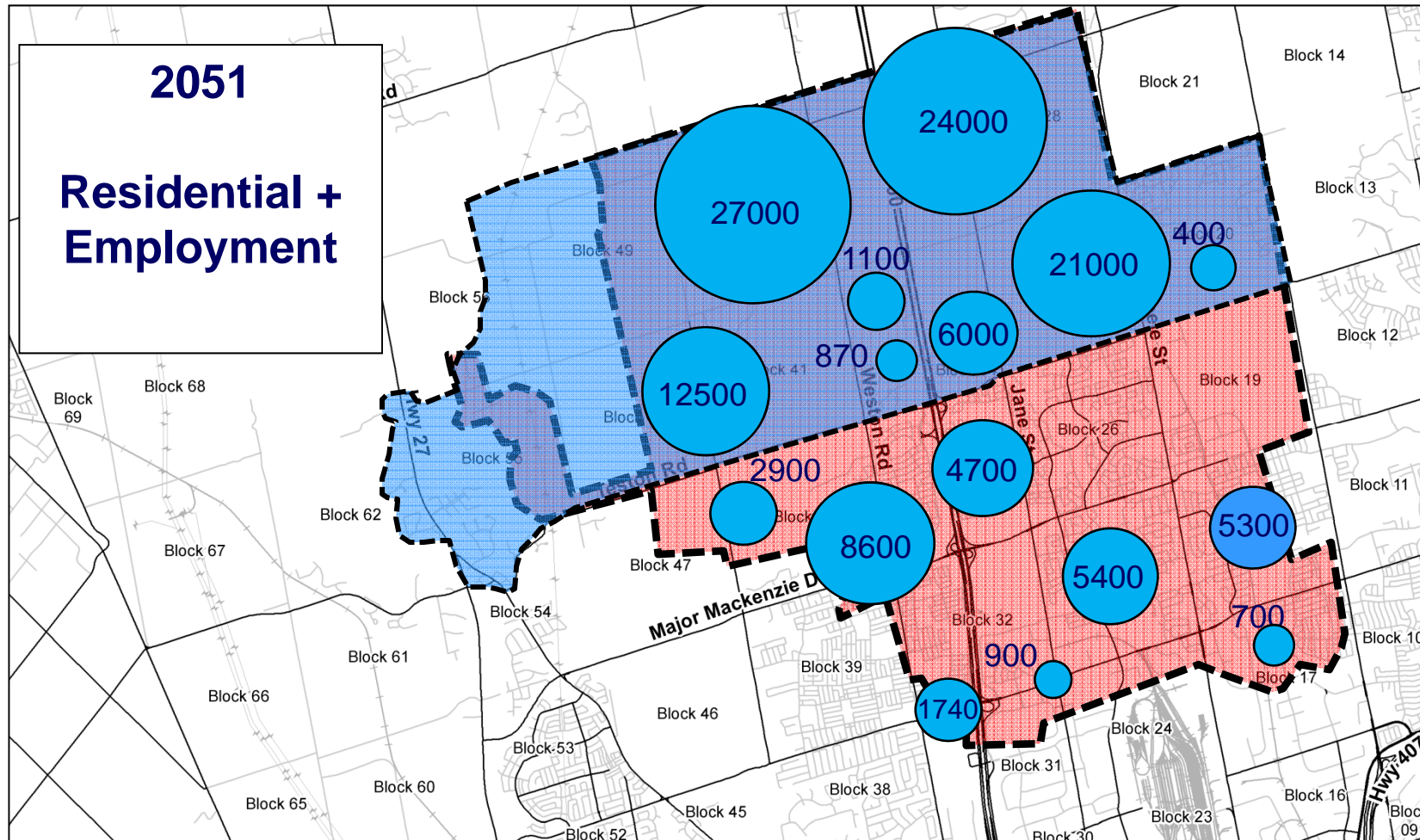




# Anticipated Population by Traffic Zone



# Anticipated Population by Traffic Zone



# Stage 1 – Optimization Study

# How can we service growth?

**Optimization**



**Upgrades/  
Enhancements**



**Construct New  
Infrastructure**





# How can we service growth?

## Optimization



## Upgrades/ Enhancements



## Construct New Infrastructure



- Water Conservation
- Inflow and Infiltration Reduction Programs
- Interim Sharing of Water Storage Between Service Areas
- Maximize the Capacity of Existing Infrastructure

# How can we service growth?

## Optimization



## Upgrades/ Enhancements



## Construct New Infrastructure



- Completed computer modelling of the existing water and wastewater systems
- Identified preliminary optimization opportunities
- Currently "ground truthing" opportunities

# How can we service growth?

Optimization



Upgrades/  
Enhancements



Construct New  
Infrastructure



- Minor modifications of existing water and wastewater systems

# How can we service growth?

Optimization



Upgrades/  
Enhancements



Construct New  
Infrastructure



- New water distribution - watermain, pumping station and water storage
- New wastewater collection - sewer and pumping station

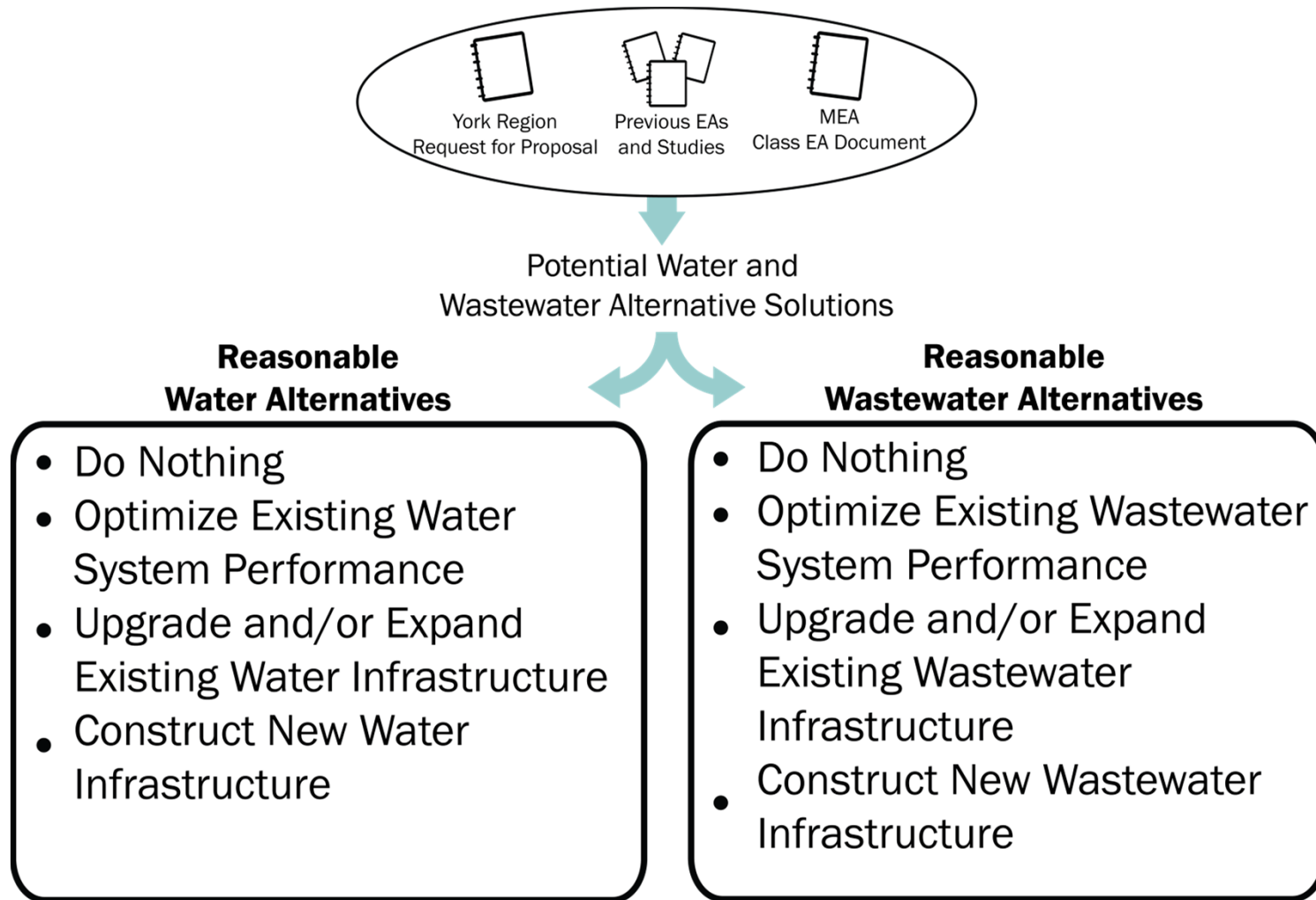
# Stage 2 – Class EA Study

# Draft Problem/Opportunity Statement

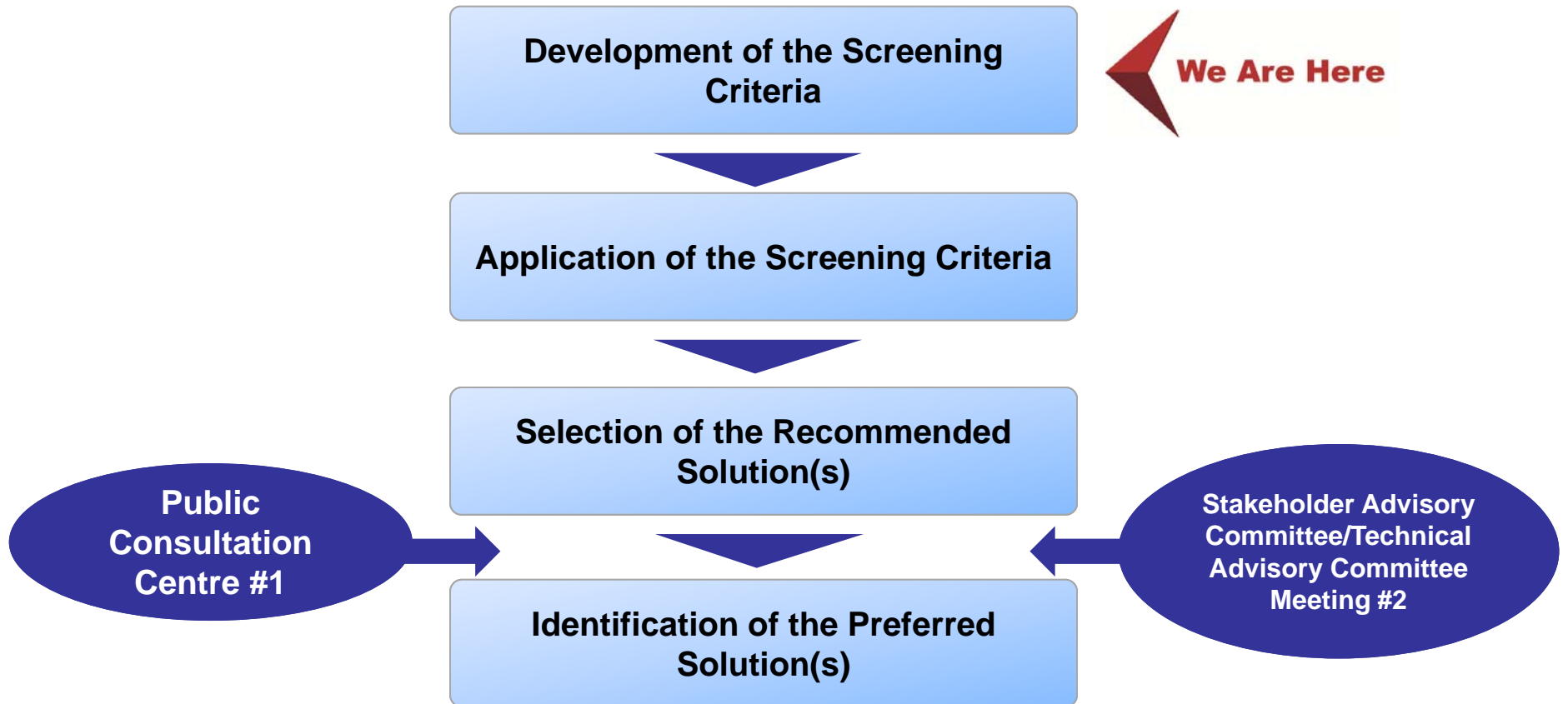
- The purpose of this project is to develop a water and wastewater solution for anticipated growth in Northeast Vaughan to the year 2051 reflecting York Region's *Sustainability Strategy* and in accordance with applicable environmental statutes. These statutes include but are not limited to the *Environmental Assessment Act*, 1990, *Oak Ridges Moraine Conservation Act*, 2001, and the *Greenbelt Act*, 2005.



# Approach for Generating Alternative Solutions



# Choosing a Preferred Solution

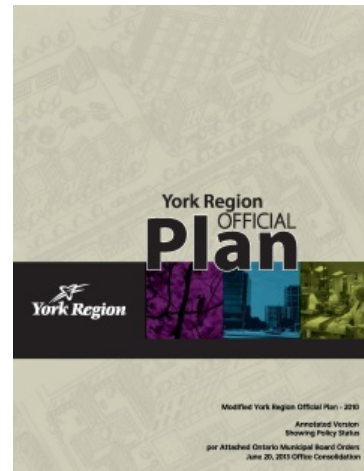
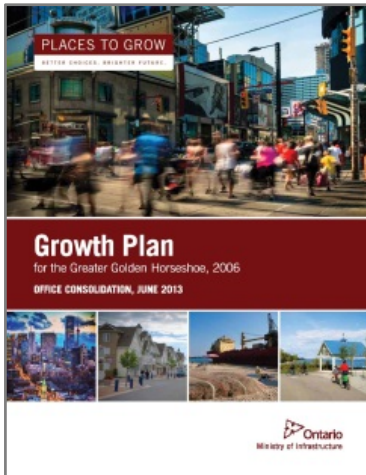


# Screening Criteria

<b>Problem / Opportunity Statement</b>	1	Can the alternative satisfy the problem/opportunity statement?
<b>Provincial Growth, Environmental Policies &amp; Legislation</b>	2	Is the alternative able to meet the purpose of the Environmental Assessment Act?
	3	Is the alternative consistent with the Provincial Policy Statement?
	4	Is the alternative consistent with the Growth Plan for the Greater Golden Horseshoe?
	5	Is the alternative consistent with the Greenbelt Plan?
	6	Is the alternative consistent with the Oak Ridges Moraine Conservation Plan?
<b>Regional / Municipal Plans, Strategies &amp; Programs</b>	7	Is the alternative consistent with York Region's Official Plan?
	8	Is the alternative consistent with York Region's 2009 Water and Wastewater Master Plan Update?
	9	Is the alternative consistent with York Region's Sustainability Strategy for Water and Wastewater Servicing (2008)?
	10	Is the alternative consistent with the City of Vaughan's 2014 Water and Wastewater Master Plan?
<b>Proven Technology / Technical Feasibility</b>	11	Does the alternative represent proven technology?
	12	Is the alternative constructible?
<b>Financial Viability / Ability to Implement</b>	13	Is the alternative financially viable?
	14	Is the alternative within the ability of York Region to implement?

# Problem/Opportunity Statement

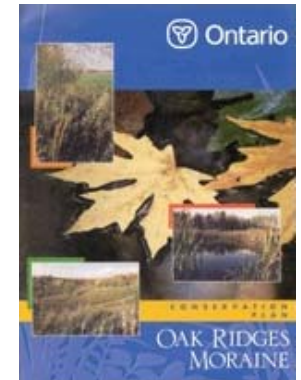
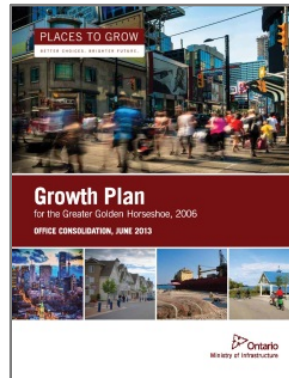
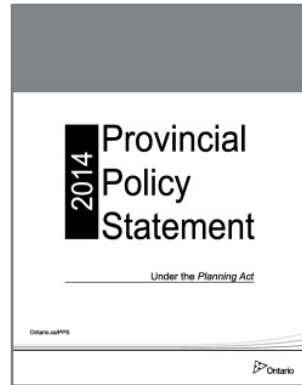
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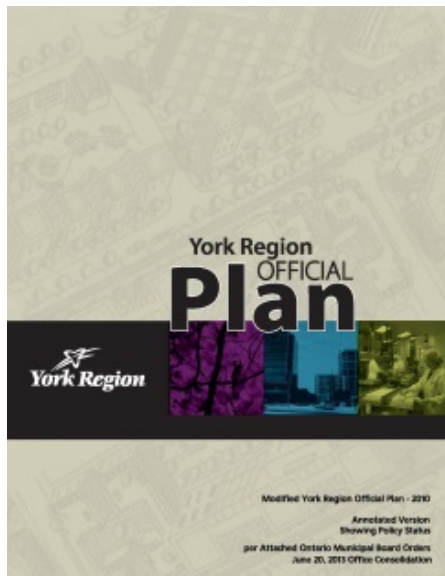
# Provincial Growth, Environmental Policies & Legislation

- Environmental Assessment Act
- Provincial Policy Statement
- Growth Plan for the Greater Golden Horseshoe
- Greenbelt Plan
- Oak Ridges Moraine Conservation Plan

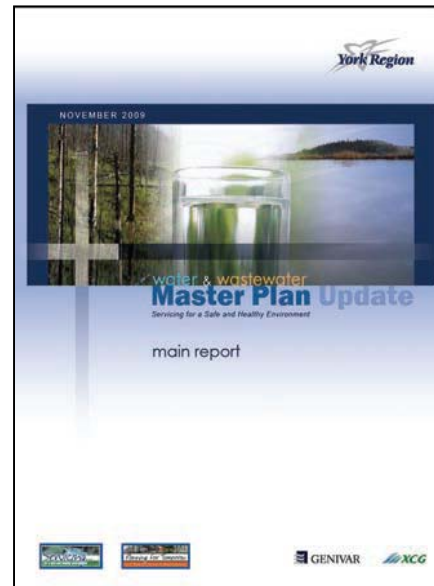


# Regional/Municipal Plans, Strategies & Programs

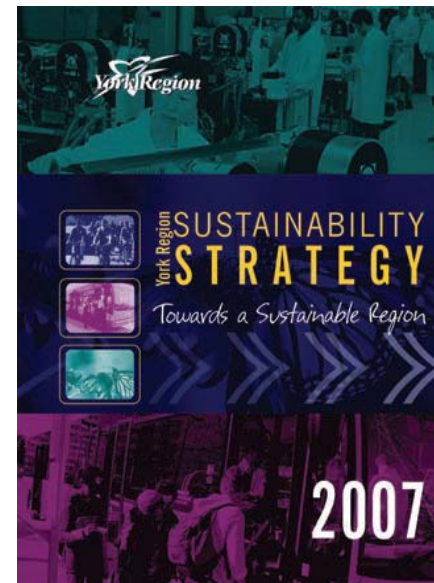
**Official Plan (Adopted by York Regional Council 2009)**



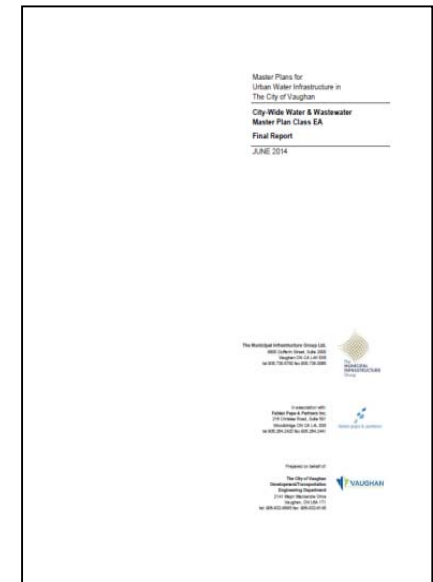
**2009 Water & Wastewater Master Plan Update**



**Sustainability Strategy**



**City of Vaughan 2014 Water and Wastewater Master Plan**



# Proven Technology/Technical Feasibility

## Segmental Lining Tunnel




## Tunnel Boring Machine



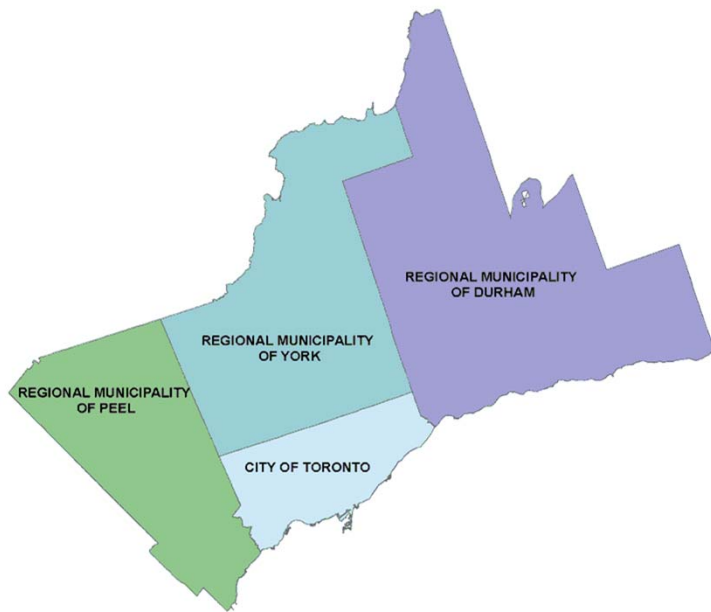
## Jack & Bore Construction Method



# Financial Viability/Ability to Implement

	...	...	...
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- Financial viability of the alternative based on its conceptual cost estimate



- York Region can implement on its own or through an existing jurisdictional agreement



# Choosing a Recommended Water Solution(s)

Screening Criteria	Alternative Water Solutions			
	Do Nothing	Optimize Existing Water System	Upgrade/Expand Water Infrastructure	Construct New Water Infrastructure
Criteria #1: Can the alternative satisfy the problem/opportunity statement to be addressed?	Yes/No, with supporting rationale	Yes/No, with supporting rationale	Yes/No, with supporting rationale	Yes/No, with supporting rationale
...	...	...	...	...
Criteria #11: Does the alternative represent proven technology	Yes/No, with supporting rationale	Yes/No, with supporting rationale	Yes/No, with supporting rationale	Yes/No, with supporting rationale
<i>Summary of Results</i>	Carried forward to Alternative Design Concepts Phase or not	Carried forward to Alternative Design Concepts Phase or not	Carried forward to Alternative Design Concepts Phase or not	Carried forward to Alternative Design Concepts Phase or not

# Choosing a Recommended Water Solution(s)

Screening Criteria	Alternative Water Solutions	
	Do Nothing	...
Criteria #1: Can the alternative satisfy the problem/opportunity statement to be addressed?	No Problem/ opportunity statement not addressed.	...
...	...	...
Criteria #11: Does the alternative represent proven technology	Yes No technology required.	...
<i>Summary of Results</i>	Carried forward to Alternative Design Concepts Phase or not	...

# 5. Additional Questions and Discussion



## 6. Next Steps and Future Meetings



**Thank You!**

# SAC Meeting #2

- February 2015
  - Alternative water and wastewater solutions including the recommended water and wastewater solutions
- *Homework*
  - Study area considerations
  - Filling vacant memberships