

# WATER, WASTEWATER & STORMWATER MASTER PLAN PROJECT UPDATE

## Project Update

The Water, Wastewater and Stormwater (W/WW/SWM) Master Plan is being undertaken to develop a comprehensive plan for the growth-related infrastructure requirements for the City of Hamilton. The Master Plan consists of a review of growth projections, servicing policies, design criteria and completion of public consultation and servicing strategy development and evaluation under the Municipal Engineers Association (MEA) Class Environmental Assessment (EA) Master Plan Process.

Data was provided by the GRIDS 2 Process (Visit [GRIDS 2 and Municipal Comprehensive Review](#) (MCR) for more information) in early July 2021 that updated the planning horizon to 2051 under an Ambitious Density Scenario. This scenario considers an Urban Boundary Expansion by identifying new Greenfield growth, and infill and intensification areas within the existing City core. The Ambitious Density Planning scenario that has been identified is not yet approved by Council. A Council and Committee meeting is planned for **October 2021** that will identify whether an Urban Boundary Expansion is supported. This decision will be based on a detailed and comprehensive review of the Lands Needs Assessment and public input.

A high-level comparative review of a No Urban Boundary Expansion growth option vs. the Ambitious Density Scenario was completed to identify potential impacts to the City's existing and/or planned infrastructure and public service facilities. The No Urban Boundary Expansion option will focus on infill and intensification within the City's existing boundary limits, including key areas such as the Downtown Core. The Master Plan preliminary scenario modelling, servicing strategies and draft results will potentially be impacted by this decision.

## Project Contact

Please visit the [project website](#) for more information. If you wish to submit comments or would like to be added to the project mailing list for future project notifications, please contact:

### **Bhajan Sarker, P.Eng.**

Senior Project Manager, City of Hamilton  
905.546.2424 ext. 5109  
Bhajan.Sarker@Hamilton.ca

### **Mark Zamojc, P.Eng.**

Infrastructure Planning, GM BluePlan Engineering Ltd.  
416.703.0667 ext. 7212  
Mark.Zamojc@gmblueplan.ca

**The problem or opportunity statement defines the principal starting point in the undertaking of the Class EA study and assists in defining the scope of the project. The problem or opportunity statement for the City of Hamilton Water, Wastewater and Stormwater Master Plans is defined as follows:**

### Supporting Growth

**With an updated planning horizon to 2051, the Master Plans need to be updated to determine how the City's water, wastewater and stormwater infrastructure will support growth in a sustainable and financially responsible manner.**

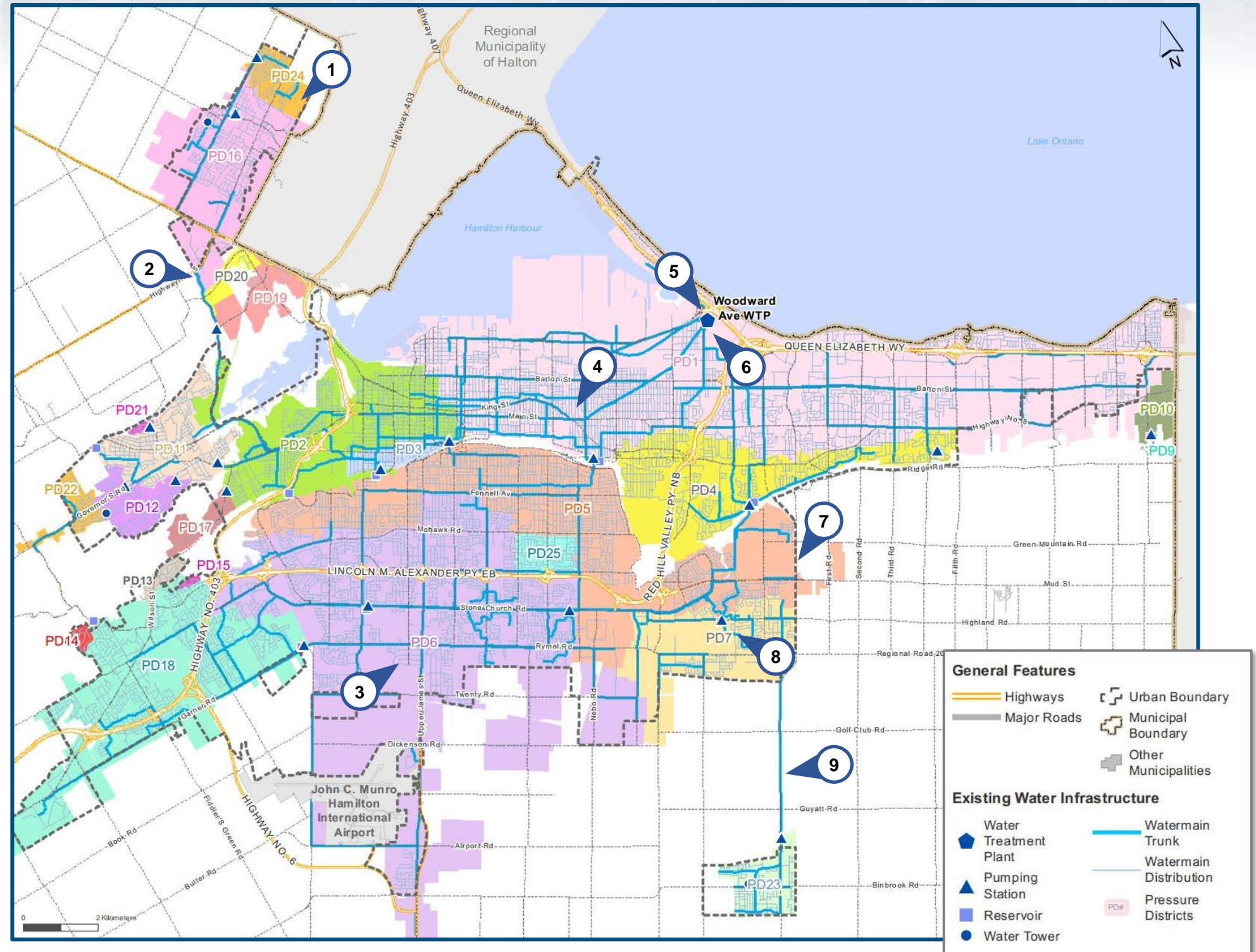
### Developing a Long-Term Servicing Strategy

**The Master Plans will develop a long-term servicing strategy and capital forecast to ensure level of service for existing residents and businesses, to support future growth in the community through 2051, and to consider potential impacts post-2051.**

# WATER, WASTEWATER & STORMWATER MASTER PLAN PROJECT UPDATE

## Water System – Preliminary Opportunities and Constraints

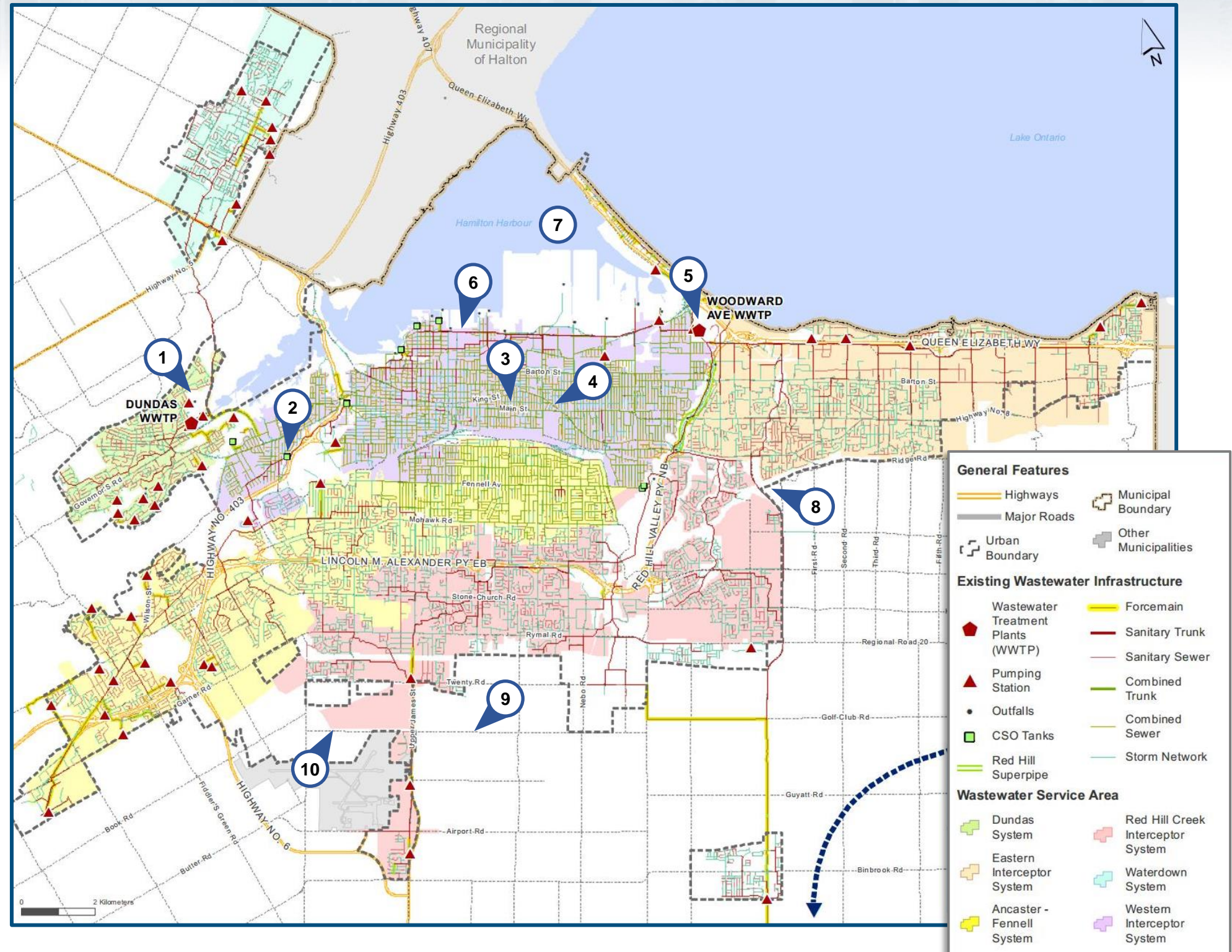
1. Recently constructed infrastructure within Pressure District (PD) 24 to support growth in Waterdown
2. Single 600 mm trunk feed to Waterdown; feedermain twinning was recommended in previous studies to support growth and for security of supply
3. Existing water distribution and pumping capacity within PD6 which can potentially support significant growth within PD6 and the Airport Employment Growth District (AEGD)
4. Significant Intensification growth potential within downtown core; aging infrastructure must provide Level of Service (Pressure and Fire Flow) for existing and future re-development
5. Woodward Ave Water Treatment Plant (WTP) provides treated water to City of Hamilton; WTP has had relatively recent upgrades to support growth
6. WTP condition upgrades planned for December 2021
7. Trunk watermain along Centennial Pkwy, up escarpment to Church Rd E completed to support growth and provide security of supply
8. Growth potential within PD7 will require new water facilities and system upgrades
9. Single 400 mm trunk feed to Binbrook; feedermain twinning was recommended in previous studies to support growth and for security of supply



# WATER, WASTEWATER & STORMWATER MASTER PLAN PROJECT UPDATE

## Wastewater System – Preliminary Opportunities and Constraints

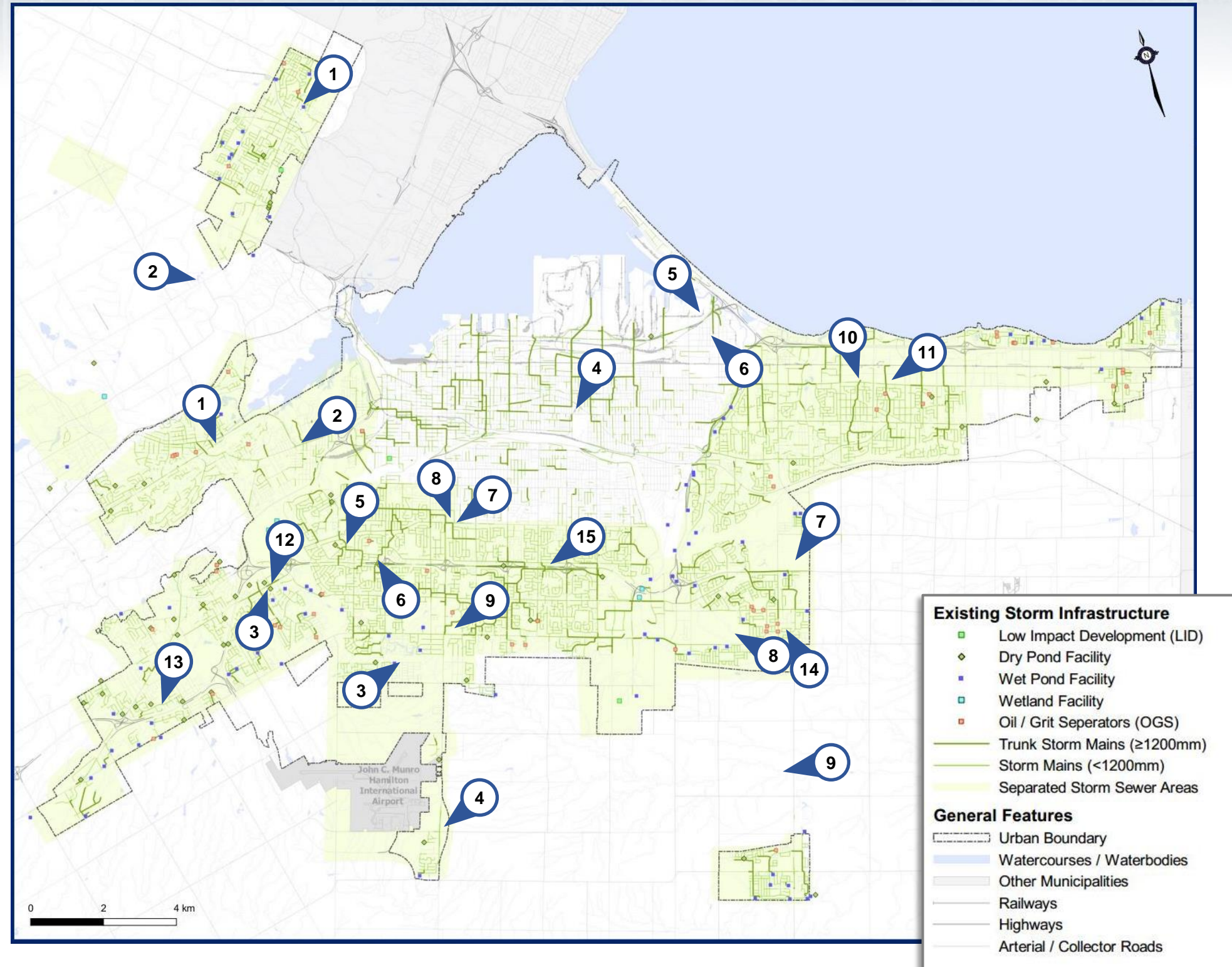
1. Growth flow within Waterdown and Dundas flows to the Dundas WWTP; historical studies and recent recommendations for strategies at Plant including effluent quality improvements
2. Highway 403 trunk twinning identified in 2006 MP to relieve capacity constraints and support growth
3. Significant Intensification growth potential within downtown core; combined sewers have capacity constraints under intense wet weather events
4. Several concurrent studies underway to address servicing within downtown Hamilton that will be coordinated with the MP
5. Woodward Ave WWTP and Sewage Pumping Station (SPS) expansion currently underway – EA completed and capacity upgrade designs imminent.
6. Capacity constraints identified in Western Sanitary Interceptor (WSI)
7. Compliance with Ministry of the Environment, Conservation and Parks (MECP's) F-5-5 Requirements for Combined Sewer Overflows (CSO) is a continued constraint to be mitigated through MP recommendations as well as other concurrent studies
8. Centennial Trunk Sewer construction was completed to service growth on Hamilton Mountain. Downstream twinning of Battlefield Trunk Sewer was recommended in past studies and will be further reviewed in this Master Plan.
9. Design of the new Dickenson Trunk Sewer between Upper James St and Centennial Pkwy is nearing completion. This sewer will service growth within the AEGD and Hamilton Mountain growth areas
10. Airport Employment Growth District (AEGD) growth flows will utilize capacity within existing infrastructure as well as proposed Dickenson Rd Trunk Sewer



# WATER, WASTEWATER & STORMWATER MASTER PLAN PROJECT UPDATE

## Stormwater System – Preliminary Opportunities and Constraints

1. Storm sewer capacity deficiencies along King/Cootes area of Dundas
2. Lack of existing stormwater quality treatment in Westdale area
3. Trunk storm sewer deficiencies in Meadowlands/Gold Links area
4. Previously developed specific Storm Water Management (SWM) criteria for future growth in AEGD area to be applied, including focus on Low Impact Development (LID)
5. Identified storm sewer capacity constraints and known flooding issues in Fessenden and Mountview Neighbourhoods
6. Identified trunk storm sewer capacity issues along Garth trunk upstream of the Linc
7. Identified storm trunk capacity issues on Hester/Hayden branch
8. Lack of stormwater quality treatment along Upper James St. (Chedoke Creek Watershed)
9. Deficient trunk storm sewer capacity identified at Upper James and Rymal
10. Identified trunk storm sewer deficiencies in Stoney Creek Area (Red Hill to Fruitland Rd, south of Barton)
11. Lack of existing stormwater quality control in Stoney Creek area
12. Previously proposed (2007 Storm Master Plan) storm pond retrofits in Meadowlands area
13. Previously proposed (2007 Storm Master Plan) storm pond retrofits in Ancaster area
14. Previously proposed (2007 Storm Master Plan) storm pond retrofit
15. Lack of stormwater quality treatment on Hamilton Mountain



# WATER, WASTEWATER & STORMWATER MASTER PLAN PROJECT UPDATE

## Project Timeline

★ Council / Committee

◆ Stakeholder / Public Engagement

