Master Servicing Study (MSS)

Update on Draft Report

April 17, 2012



Purpose of MSS

- Determine Existing Capacity Constraints of Municipal Services (Water, Sanitary & Storm)
- Estimate Future Servicing Needs based on 2031 Land Use Projections
- Identify Infrastructure Improvements to support 2031 Land Use
- Estimate Infrastructure Improvement costs for input into Development Charges Study



2031 Land Use

- Combined Growth projections are provided by Planning Policy Section
- Draft land use projections are used for certain growth areas, e.g. Markham Centre, Milliken Centre.





Municipal Services Assessed

- Assessments were carried out for 21 areas with growth potential
 - Water Supply System Assessment
 - Sanitary Collection System Assessment
 - Storm Drainage System Assessment
 - System Capital Cost Summary





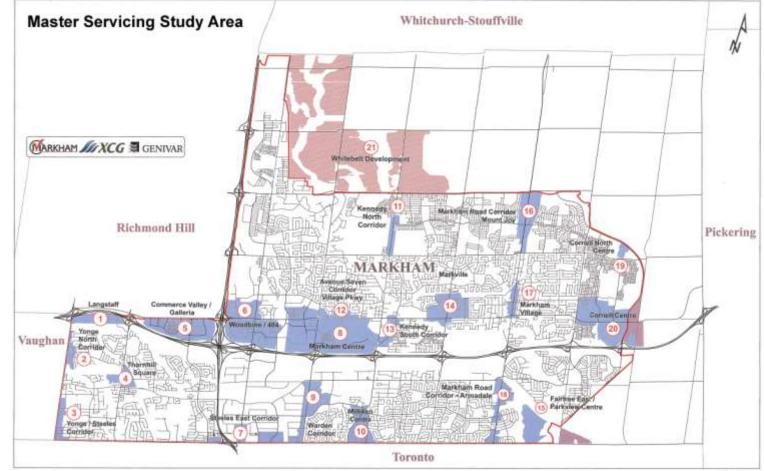


EXHIBIT 1

Building Markham's Future Together



Example of Assessment

Town of Markham Master Servicing Plan Existing System and 2031 Assessment	Area 9
	Warden Corrido
Location Description Along Warden Avenue bounded by Steeles Avenue, Eana Park Drive, Birchmourt Road and Hood Road.	Area Map
Existing Land Use Mostly light industrial and commercial	ZBA
Potential Land Use Changes	
Current/Recent Studies SWM Study for Concentral Subdivision, 1987	E Winter
Gurrent Issues/Problems	
Existing Systems	
Water Supply (Zone, Source, Storage, etc.) • Sea Figure 8.1 • Area is within York Pressure Detrict 5 weet of 1 • POS pumping stations supplying the area are T Milliken PS near Konnedy Road and 14 ⁶ Aven, • POS storage is tocated at Markhum Reservoir 5 • POS watermains - 300 mm watermains atong 5 • POSM pumping station is located at the Milker • POSM pumping station is located at the Milker • POSM primping station is located at the Milker	homhill PS, near Bayview Avenue and 14 [®] Avenue, and e. Jixahid on McCriwan Road near Eigin Mills Road. Jeeles Avenue, Hood Road, Alden Road and Denson Street (PS near Konnedy Road and 14 [®] Avenue. Kannedy Road and 14 [®] Avenue. (Kannedy Road and 14 [®] Avenue.

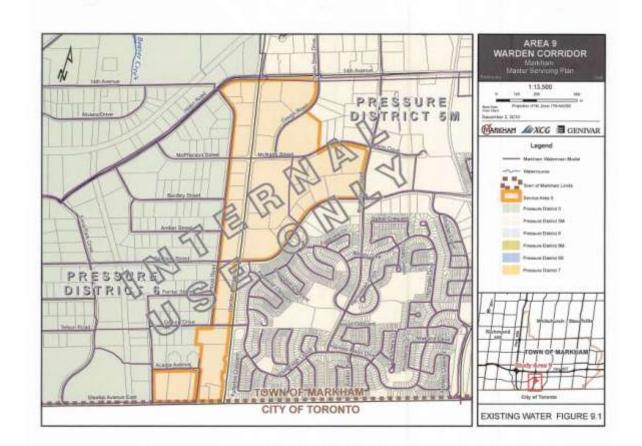
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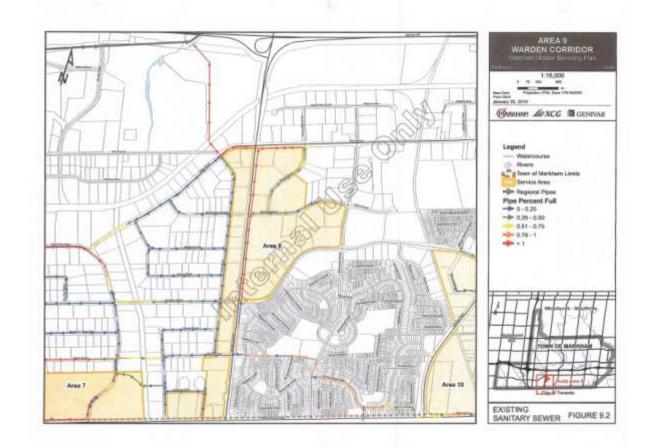
Example of Assessment



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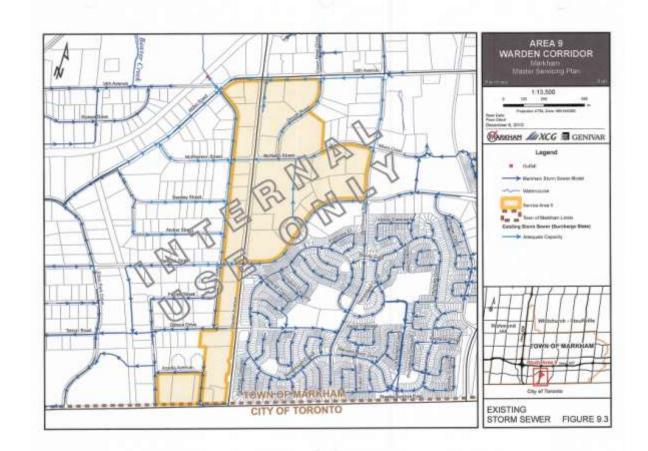
Example of Assessment



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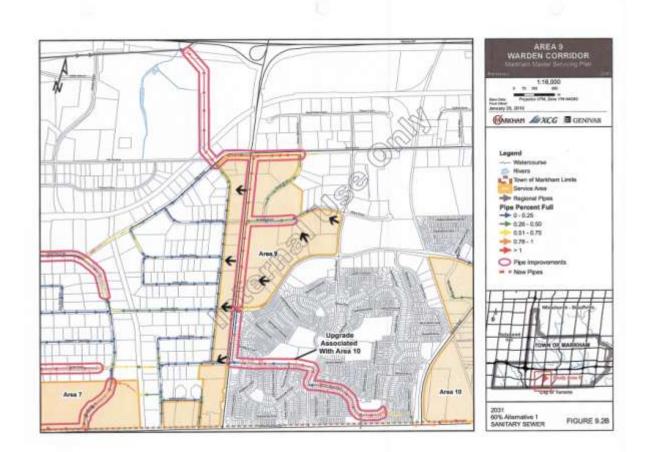
Example of Assessment



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Example of Assessment



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Water Supply System

- Two tier system (Region & Town)
- Significant Regional system improvement is required to service Markham Centre
- Langstaff will require new supply from an existing Regional truck watermain in the Langstaff area
- Some growth areas will require upgrades to watermain sections
- Further review of system required before new infrastructure requirements and cost estimates can be finalized.



Sanitary Collection System

- Two tier system (Region & Town)
- Town system is connected to the York-Durham Sewer System (YDSS) which is operated by the Region
- Major improvement required for Langstaff (Town & Regional system), Yonge South Corridor, Steeles East Corridor, Avenue Seven Corridor, Fairtree East/Parkview Centre, Whitebelt
- Most growth areas will require sewer improvements and/or flow diversions to optimise flow in existing sewers
- Need to provide study results to the Region to ensure the YDSS can handle the anticipated sanitary flow from Markham
- Further review of system required before new infrastructure requirements and cost estimates can be finalized.



Storm Drainage System

- Storm drainage is based on a system of storm sewers, overland flow routes (if designed), tributaries and major watercourses
- Stormwater Management (SWM) design criteria have evolved over time to provide better protection against storms, water quality and the environment
- Intensification and redevelopment areas will require on-site water quantity and quality control as there are no downstream stormwater management ponds
- Storm sewers will need to be upgraded in most growth areas
- Sewer upgrades for growth areas are independent of service level improvements that are currently undertaken by Asset Management Department (e.g. Thornhill)
- Further review of system required before new infrastructure requirements and cost estimates can be finalized.



Next Step

A) Finalize MSS will be based on:

- Final 2031 Land Use projections
- Growth targets in some growth areas (e.g. Langstaff, Markham Centre, Markham Road North, Milliken Centre) are being finalized
- Regional OP Amendment 3: Growth in the Whitebelt and OMB decision
- B) Required infrastructure, cost estimates and funding sources (growth : nongrowth) to be included in DC background study update
- C) Staff Report back in the Fall 2012 with further update

