

Clause No. 7 in Report No. 6 of Committee of the Whole was adopted, without amendment, by the Council of The Regional Municipality of York at its meeting held on November 21, 2013.

7
CONSULTANT SELECTION FOR
EAST VAUGHAN WATER AND WASTEWATER SERVICING
PROJECTS 75530 AND 75310

Committee of the Whole recommends adoption of the following recommendation contained in the report dated October 29, 2013 from the Commissioner of Environmental Services:

1. RECOMMENDATIONS

It is recommended that:

1. Conestoga-Rovers & Associates Limited be engaged to undertake a Class Environmental Assessment, water and wastewater system capacity optimization study, preliminary design and feasibility study for the East Vaughan Water and Wastewater Servicing project, as outlined in this report, at a fee of \$2,399,700.00 excluding taxes.

2. PURPOSE

This report seeks Council authorization to retain engineering services related to a Class Environmental Assessment, water and wastewater capacity optimization study, preliminary design and feasibility study for the East Vaughan Water and Wastewater Servicing project. Two location maps are appended to this report (*see Attachments 1 and 2*).

The Region's Purchasing Bylaw requires Council authorization to award Request for Proposals over \$500,000 or when the recommended proponent is not the lowest cost. In this case, the recommended proponent submitted the lowest cost; however, the recommended proponent's bid is over \$500,000.

3. BACKGROUND

Ontario's Places to Grow forecasts significant population and economic growth in York Region by 2031, particularly in the City of Vaughan

Ontario's Growth Plan for the Greater Golden Horseshoe has forecasted York Region to grow to 1.59 million people by 2031. It is expected that approximately 30 per cent of forecasted growth will occur in the City of Vaughan.

The City of Vaughan has completed an official plan review and the East Vaughan area is expected to grow significantly. The City of Vaughan is currently completing a city-wide Water and Wastewater Servicing Master Plan study to provide local infrastructure to meet future growth demand.

York Region's Water and Wastewater Master Plan Update identified requirements for additional water and wastewater servicing capacity in East Vaughan

The Region's November 2009 Water and Wastewater Master Plan Update identified the requirement for additional water and wastewater servicing capacity for the East Vaughan area to meet future population and employment growth and servicing demands to year 2031 and beyond. Proposed service and study areas are illustrated in detail (*see Attachments 1 and 2*). Ultimate servicing requirements will be determined as part of the Class Environmental Assessment.

The East Vaughan area is currently provided water service through pressure districts 7, 8 and 9. The Region's 2009 Master Plan Update identified the following infrastructure requirements to expand service areas in these pressure districts:

- Pressure district 7: New reservoir and watermain.
- Pressure district 8: New reservoir and watermain and pumping station upgrades.
- Pressure district 9: New elevated tank, pumping station and associated watermain to supply the expanded area in Vaughan.

The East Vaughan area is currently provided sewage service through the Jane-Rutherford and North Maple Collector sewers of the York Durham Sewage System.

The Region's 2009 Master Plan Update identified the requirement for a North East Vaughan Wastewater Collector to service future growth in North East Vaughan. Subject to results of the Class Environmental Assessment, this collector sewer is expected to be a trunk sewer extending from King-Vaughan Road south to the Langstaff Collector.

Three-phased approach proposed for East Vaughan Servicing project

The proposed East Vaughan Water and Wastewater Servicing project will be carried out in three phases:

- **Water and Wastewater System Capacity Optimization Study:** The proposed project will begin with a comprehensive capacity optimization study of existing Regional water and wastewater systems to align with sustainable growth principles by leveraging existing capacity through system upgrades and/or operational improvements. This component of the work will include comprehensive modelling studies using Regional water and wastewater infrastructure hydraulic models.
- **A Class Environmental Assessment Study** will be completed to identify a preferred water and wastewater servicing solution to meet growth requirements in the East Vaughan area.
- **Preliminary Design and Feasibility Study:** A preliminary design and feasibility study will be completed for the preferred water and wastewater servicing solution to help identify requirements for subsequent detailed design and construction stages.

4. ANALYSIS AND OPTIONS

A Request for Pre-qualification was issued in August 2013 to pre-qualify consulting engineering firms

In accordance with the Region's Purchasing Bylaw, interested consulting engineering firms were invited in August 2013 to submit qualifications in response to a Request for Pre-qualification for the East Vaughan Water and Wastewater Servicing project (P-13-32).

Nine submissions were received in response to the consultant Request for Pre-qualification No. P-13-32, and the following four consulting firms were pre-qualified based on a set of pre-established evaluation criteria:

- AECOM Canada Ltd.
- CH2M Hill Canada Limited
- Conestoga-Rovers & Associates Limited
- Hatch Mott MacDonald Ltd.

Request for Proposal No. P-13-62 issued in September 2013 to pre-qualified consulting engineering firms

In accordance with the Purchasing Bylaw, Request for Proposal No. P-13-62 was issued to the above-noted four pre-qualified engineering firms on September 26, 2013.

The Request for Proposal detailed scope of work required, which included the following services:

- Project management, planning and control
- Water and wastewater capacity optimization study
- Environmental Assessment
- Preliminary design and feasibility study for the preferred solution and preferred design concepts
- Water and wastewater infrastructure hydraulic modelling
- Quality assurance and quality control

The pre-qualified engineering firms were required to carry one of the modelling sub-consultants pre-qualified through RFPQ No. P-13-87 to complete the water and wastewater infrastructure hydraulic modelling scope of work.

Proposals evaluated using two-envelope system

Proposals were evaluated using the two-envelope system with technical and financial information submitted in separate envelopes. The overall proposal score was evaluated based on a weighting of 80 points for the technical/management proposal and 20 points for the financial proposal. Technical/management proposals were evaluated prior to any knowledge of financial information.

The Region's proposal evaluation team reviewed technical/management proposals based on the following criteria as listed in the Request for Proposal.

Project Team Experience:

- Corporate experience related to large-scale environmental assessments and planning studies, water and wastewater capacity optimization studies, preliminary design and feasibility studies, water and wastewater infrastructure hydraulic modelling studies
- Project manager and proposed key staff experience with similar projects
- Proposed technical support staff experience with similar projects
- References

Project Understanding and Implementation:

- Project understanding and ability to deliver project
- Project approach methodology
- Project schedule, work plan and deliverables
- Project management approach
- Implementation of Quality Assurance/Quality Control processes
- Value-added services and innovative concepts presented by the proponent
- Other miscellaneous items

Financial evaluation composed the remaining 20 per cent of the total evaluation. To be considered for award, proponents must achieve a minimum score of 60 per cent (48 points out of the potential 80 points) allocated to technical merit. Technical and financial results for each proponent are summarized in Table 1. CH2M Hill Canada Limited declined to submit a proposal.

Table 1
Consultant Proposal Evaluation Summary

Consultant	Technical Score (Out of 80)	Total Fee (\$) (excluding taxes)	Financial Score (Out of 20)	Total Score (Out of 100)	Cost per Technical Point (\$)
Conestoga-Rovers & Associates Limited	51.36	\$2,399,700.00	20.00	71.36	\$46,723.13
Hatch Mott MacDonald Ltd.	56.53	\$3,463,915.53	13.86	70.39	\$61,275.70
AECOM Canada Ltd.	63.29	\$4,400,522.75	10.91	74.20	\$69,529.51

Evaluation of proposals revealed Conestoga-Rovers & Associates Limited achieving lowest price per technical score

The firm with the highest total score is AECOM Canada Ltd. Given that the total score achieved by firms other than AECOM Canada Ltd. were within five (5) points of the highest total score, a “dollar cost methodology” calculation was completed, as required by the Purchasing Bylaw. Results of this calculation, as shown in Table 1, determined that the proposal submitted by Conestoga-Rovers & Associates Limited represents the best overall value to the Region.

Supplies and Services Branch has reviewed the evaluation summary and has issued their internal report confirming that Conestoga-Rovers & Associates Limited be recommended as the successful overall proponent to undertake engineering consulting services related to the East Vaughan Water and Wastewater Servicing project under Request for Proposal P-13-62.

Link to Key Council-approved Plans

The Region’s 2011 to 2015 Strategic Plan includes the objective of continuing to deliver and sustain critical infrastructure. The East Vaughan Water and Wastewater Servicing project is critical to ensure that adequate infrastructure is available over the coming

decades to meet projected water and wastewater servicing demands from population and economic growth in the East Vaughan area. The study area for this assignment is particularly important from an economic perspective, as it includes key protected strategic employment lands located near Highway 400, as per the Region's Official Plan.

5. FINANCIAL IMPLICATIONS

Fee for proposed scope of work is \$2,399,700.00, excluding taxes, and is within the range of the industry practice for this type of project. The approved 2013 10 Year Capital Plan has adequate Capital Spending Authority for this assignment, totalling \$4.0 million (approximately \$2.0 million for each of the water and wastewater components).

6. LOCAL MUNICIPAL IMPACT

This project will identify the preferred water and wastewater servicing solution to meet growth demands in the East Vaughan area and inform design and construction in a timely manner.

Regional staff has pre-consulted with City of Vaughan staff to discuss plans for project delivery, to review the City's Water and Wastewater Servicing Master Plan and to discuss the City's involvement in proposed Technical Advisory and Stakeholder Advisory Committees for the Class Environmental Assessment study. The project team will continue to work closely and collaboratively with the City of Vaughan and stakeholders over the course of the study.

7. CONCLUSION

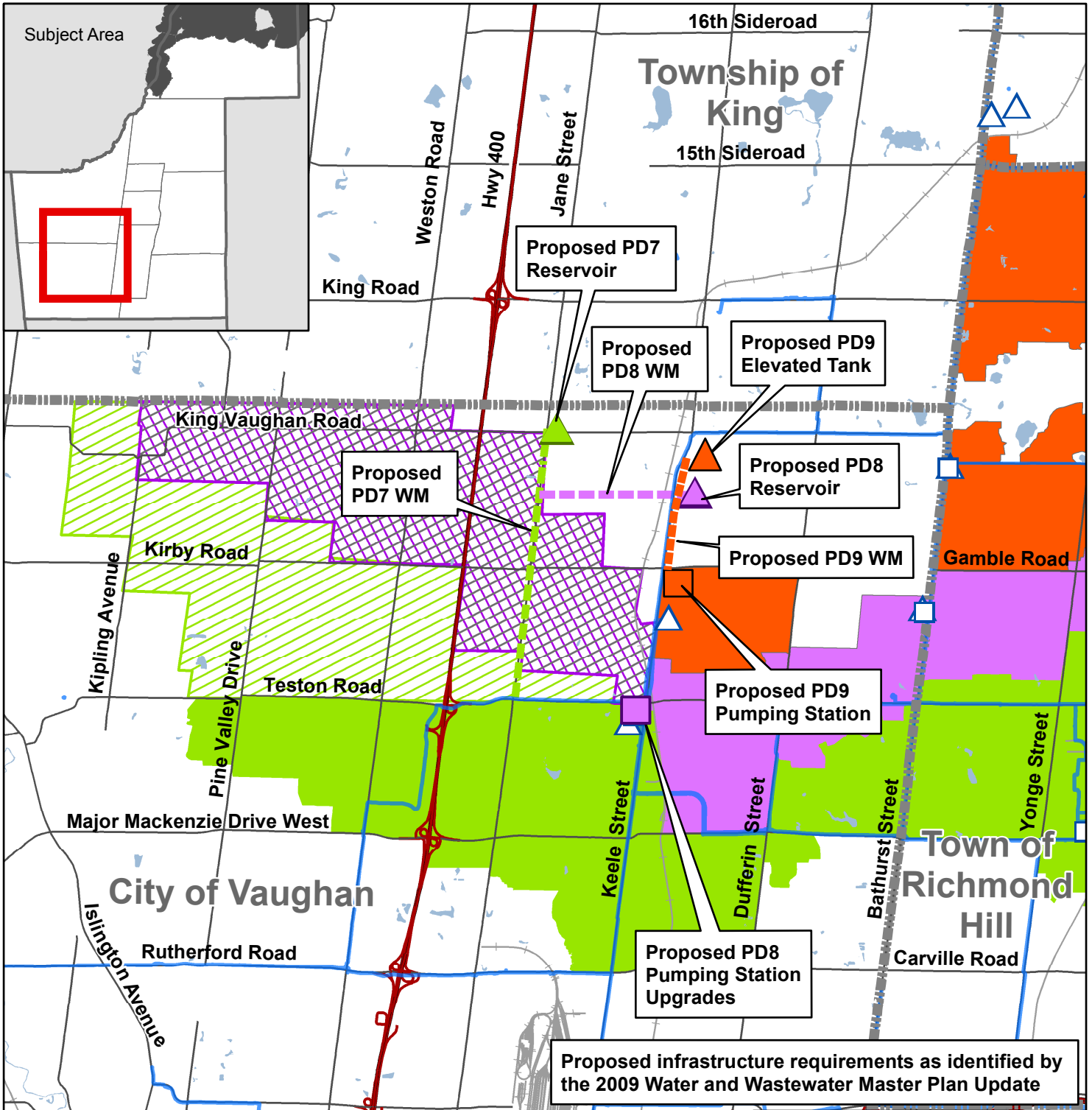
Completion of the East Vaughan Water and Wastewater Servicing project will ensure that water and wastewater infrastructure is available to sustain provincial growth projections and support development of protected employment lands in the City of Vaughan.

Three proposals for this project from pre-qualified consultants were received and evaluated in accordance with the Region's Purchasing Bylaw. The proposal from Conestoga-Rovers & Associates Limited represents the best overall value to the Region and it is recommended that the project assignment be awarded to Conestoga-Rovers & Associates Limited at a fee of \$2,399,700.00, excluding taxes.

For more information on this report, please contact Daniel Kostopoulos, Director, Capital Planning and Delivery, Environmental Services at 905-830-4444, ext. 5070.

The Senior Management Group has reviewed this report.

(The two attachments referred to in this clause are attached to this report.)



Proposed infrastructure requirements as identified by the 2009 Water and Wastewater Master Plan Update

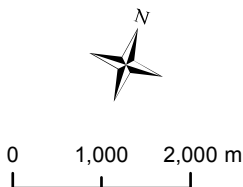
Master Plan for Water Servicing

Consultant Selection for East Vaughan Water and Wastewater Servicing Projects: 75530 and 75310
 Report of the Commissioner of Environmental Services
 November 14, 2013



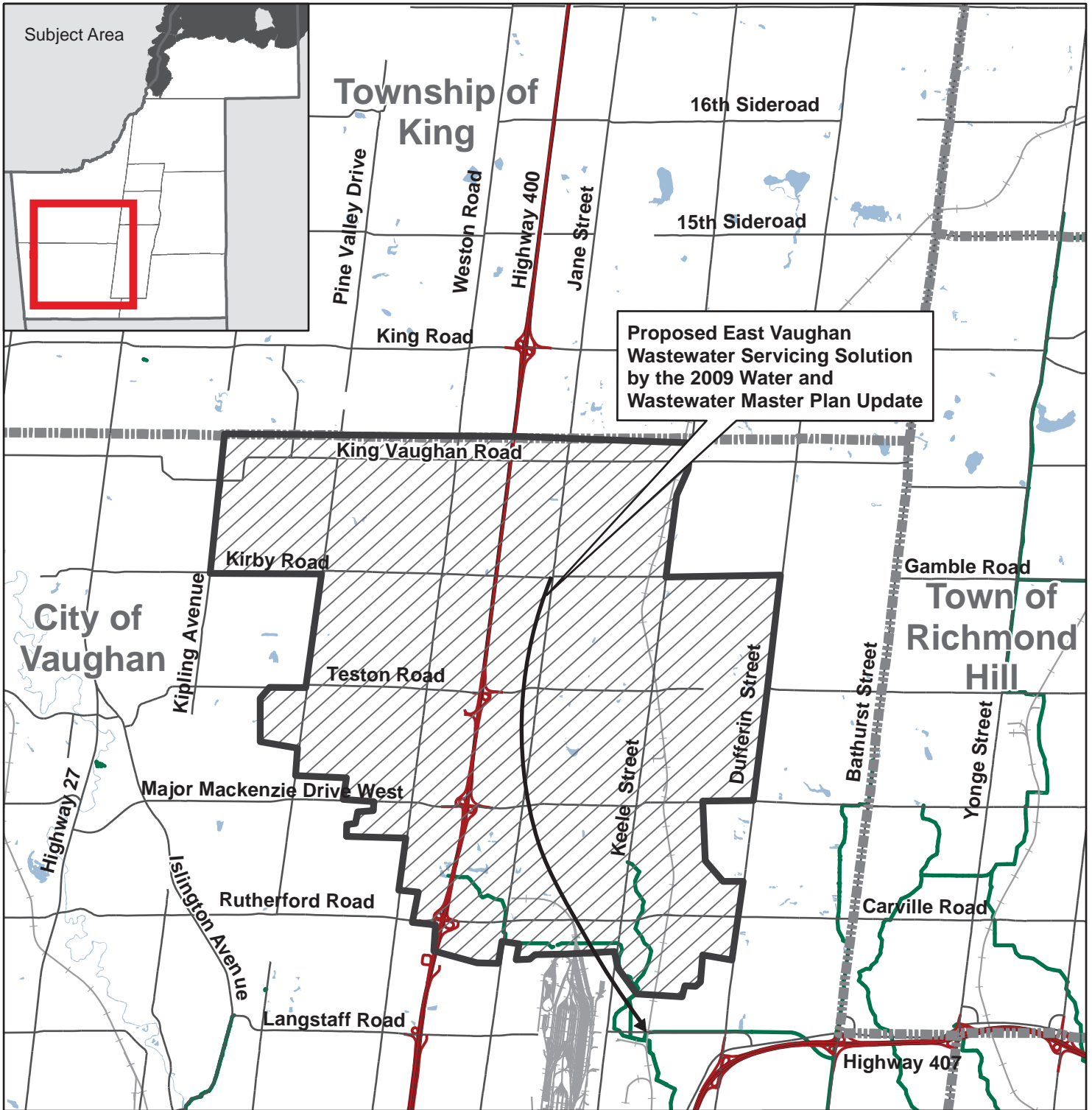
Produced by: Beata Rancourt and Lara Marchetti
 Branch: Capital Planning & Delivery
 Department: Environmental Services
 © Copyright, The Regional Municipality of York, September, 2013
 © Copyright, First Base Solutions Inc., 2012 Orthophotography
 * Includes © Queen's Printer for Ontario 2003-2013

Path: H:\Works\W01\75530 East Vaughan Servicing - Water\GIS\Council Report Maps\Council Report Nov 2013 - East Vaughan Water Servicing Colour - 75530.mxd



Legend

- PD7 Proposed
- PD8 Proposed
- PD 7
- PD 8
- PD 9
- Existing Storage
- Existing Pumping Station
- Existing Regional Watermain



Master Plan for Wastewater Servicing

Consultant Selection for East Vaughan Water and Wastewater Servicing Projects: 75530 and 75310

Report of the Commissioner of Environmental Services



November 14, 2013



Produced by: Beata Rancourt and Lara Marchetti
 Branch: Capital Planning & Delivery
 Department: Environmental Services
 © Copyright, The Regional Municipality of York, September, 2013
 © Copyright, First Base Solutions Inc., 2012 Orthophotography
 * Includes © Queen's Printer for Ontario 2003-2013

Path: H:\Works\W01\75530 East Vaughan Servicing - Water\GIS\Council Report Maps\Council Report Nov 2013 - East Vaughan Wastewater Servicing Colour - 75310.mxd

Legend

-  Service Area
-  Existing Regional Sewer/Forcemain

