

Clause 9 in Report No. 9 of Committee of the Whole was adopted, without amendment, by the Council of The Regional Municipality of York at its meeting held on May 25, 2017.

9

Direct Purchase of Equipment for Capacity Expansion  
of the Maple Water Pumping Station

Committee of the Whole recommends adoption of the following recommendations contained in the report dated April 6, 2017 from the Commissioner of Environmental Services:

1. Council authorize the Commissioner of Environmental Services to negotiate and execute a contract with Rudi Kovacko & Associates Inc., the only local authorized distributor for ITT Goulds Pumps Inc., to supply one pump with a contract value up to \$300,000, excluding HST.
  2. Council authorize the Commissioner of Environmental Services to negotiate and execute a contract with ADM Engineering Ltd., the only local authorized distributor for ABB Inc., to supply one pump controller with a contract value up to \$300,000, excluding HST.
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Report dated April 6, 2017 from the Commissioner of Environmental Services now follows:

1. Recommendations

It is recommended that:

1. Council authorize the Commissioner of Environmental Services to negotiate and execute a contract with Rudi Kovacko & Associates Inc., the only local authorized distributor for ITT Goulds Pumps Inc., to supply one pump with a contract value up to \$300,000, excluding HST.
2. Council authorize the Commissioner of Environmental Services to negotiate and execute a contract with ADM Engineering Ltd., the only local authorized distributor for ABB Inc., to supply one pump controller with a contract value up to \$300,000, excluding HST.

# Direct Purchase of Equipment for Capacity Expansion of the Maple Water Pumping Station

## 2. Purpose

This report seeks Council authority pursuant to direct purchase provisions under section 9.1(a) of the Purchasing Bylaw to negotiate and execute contracts with Rudi Kovacko & Associates for supply of one pump fabricated by ITT Goulds Pumps Inc. (Goulds) and with ADM Engineering Ltd. for the supply of one pump controller fabricated by ABB Inc. (ABB). Section 9.1(a) requires Council authorization for purchases exceeding \$100,000 in value where compatibility of the purchase with existing equipment, facilities and services is the paramount consideration.

## 3. Background

The Maple Water Pumping Station is critical to sustaining service and supporting growth in the York Water System

The Maple Water Pumping Station is a key component of York Water System that pumps water supply to the City of Vaughan as well as to the Towns of Aurora, Richmond Hill, East Gwillimbury and Newmarket. Commissioned in 2008, the Maple Water Pumping Station is a dual zone facility servicing both Pressure District 7 and Pressure District 8. This water pumping station is now due for capacity expansion.

As a critical facility pumping water to the Region's largest drinking water system, the upcoming modifications to the facility consider the need to operate the Maple Water Pumping Station effectively and efficiently to maintain reliable service to the Region.

Northeast Vaughan Environmental Assessment ongoing to identify long-term water and wastewater servicing strategy

The Northeast Vaughan Water and Wastewater Servicing project is currently in progress to provide Regional infrastructure and service anticipated growth in northeast Vaughan to the year 2051. The Environmental Assessment is currently underway with anticipated completion in 2017 and filing in Q1 2018. Detailed design of the infrastructure will follow with construction anticipated to begin in 2025.

10,000 persons wastewater capacity now available in Jane/Rutherford Sewer and Maple Collector

The Region is working with the City of Vaughan to identify capacity bottlenecks and potential mitigation solutions to support growth prior to overall project

## Direct Purchase of Equipment for Capacity Expansion of the Maple Water Pumping Station

completion. Subject to City of Vaughan's allocation and local system capacity, there is residual sewage capacity of approximately 2,000 persons in the existing Maple Collector and 8,000 persons in the existing Jane Rutherford Sewer for Blocks 27, 34, 35 and 41 after considering other development needs (outside the four blocks) as identified by the City of Vaughan staff. A location map showing the referenced blocks is provided in Attachment 1.

Installing additional water pumping capacity at Maple Water Pumping Station will provide 10,000 persons water capacity to match available wastewater capacity

For water, staff identified an interim solution to ensure that water capacity is available for all four referenced blocks to use the 10,000 persons residual capacity. The interim solution is to add an additional pump to the Region's Maple Pumping Station. Capacity expansion at Maple Water Pumping Station is currently in the design stage and is expected to be completed by mid-2018.

### 4. Analysis and Implications

Maintaining consistency between all pumps and pump controllers provides operational efficiency and better system integration

Sourcing the same Goulds and ABB pumping equipment as is currently installed at the station for a capacity increase ensures that all four pumps and pump controllers can be relied upon to operate and perform similarly. The following considerations lead to many operational benefits including improved efficiency and cost savings:

- Consistency of installation equipment with the existing system avoids introducing added complexity to the operational logic of an already complex water system
- Serviceability of equipment is streamlined by maintaining consistency in system components
- Staff are familiar and satisfied with existing equipment and can effectively operate the system with little additional training

Early procurement of pump and controller will minimize risks in providing increased servicing capacity

Fabrication and delivery time required for the Goulds pump, and for alternative pumps of similar size, is approximately nine months. In order to mitigate risk of project delays and to negotiate competitive pricing for direct purchase, it is

## Direct Purchase of Equipment for Capacity Expansion of the Maple Water Pumping Station

beneficial to the Region to procure the pump and controller in advance of the construction contract award.

Pre-purchase of these key components will contribute to timely delivery of additional servicing capacity to the water system in 2018.

The pump and pump controller are each supplied locally by only one authorized distributor

Rudi Kovacko & Associates Inc. is the only local authorized distributor representing ITT Goulds Pump Inc. in the geographic area extending from Ottawa to Windsor, Ontario. Similarly, ADM Engineering Ltd. is the only local authorized distributor representing ABB Inc. in the geographic area extending from Ottawa to Windsor, Ontario.

### 5. Financial Considerations

Discussions with suppliers of the pump and pump controller indicate that prices for similar equipment are comparable across industry products. Staff estimates a cost of up to \$300,000, excluding HST, for each of these two pieces of equipment. Both contracts will be negotiated prior to acceptance to ensure that good value for money is obtained.

The Maple Water Pumping Station capacity expansion will be funded through development charges, and funding is available in the 2017 Approved Capital Budget and Capital Spending Authority.

### 6. Local Municipal Impact

The upgrade project at the Maple Water Pumping Station will enable provision of 10,000 persons servicing capacity to Blocks 27, 34, 35 and 41 in the City of Vaughan. This water capacity expansion project is scheduled to be completed in mid-2018.

### 7. Conclusion

It is recommended that agreements be negotiated and executed for contracts with Rudi Kovacko & Associates Inc. to supply one Goulds pump and with ADM Engineering Ltd. to supply one ABB pump controller. The cost of each component shall not exceed \$300,000, excluding HST.

Direct Purchase of Equipment for Capacity Expansion  
of the Maple Water Pumping Station

For more information on this report, please contact Mike Rabeau, Director,  
Capital Planning and Delivery at 1-877-464-9675 ext. 75157.

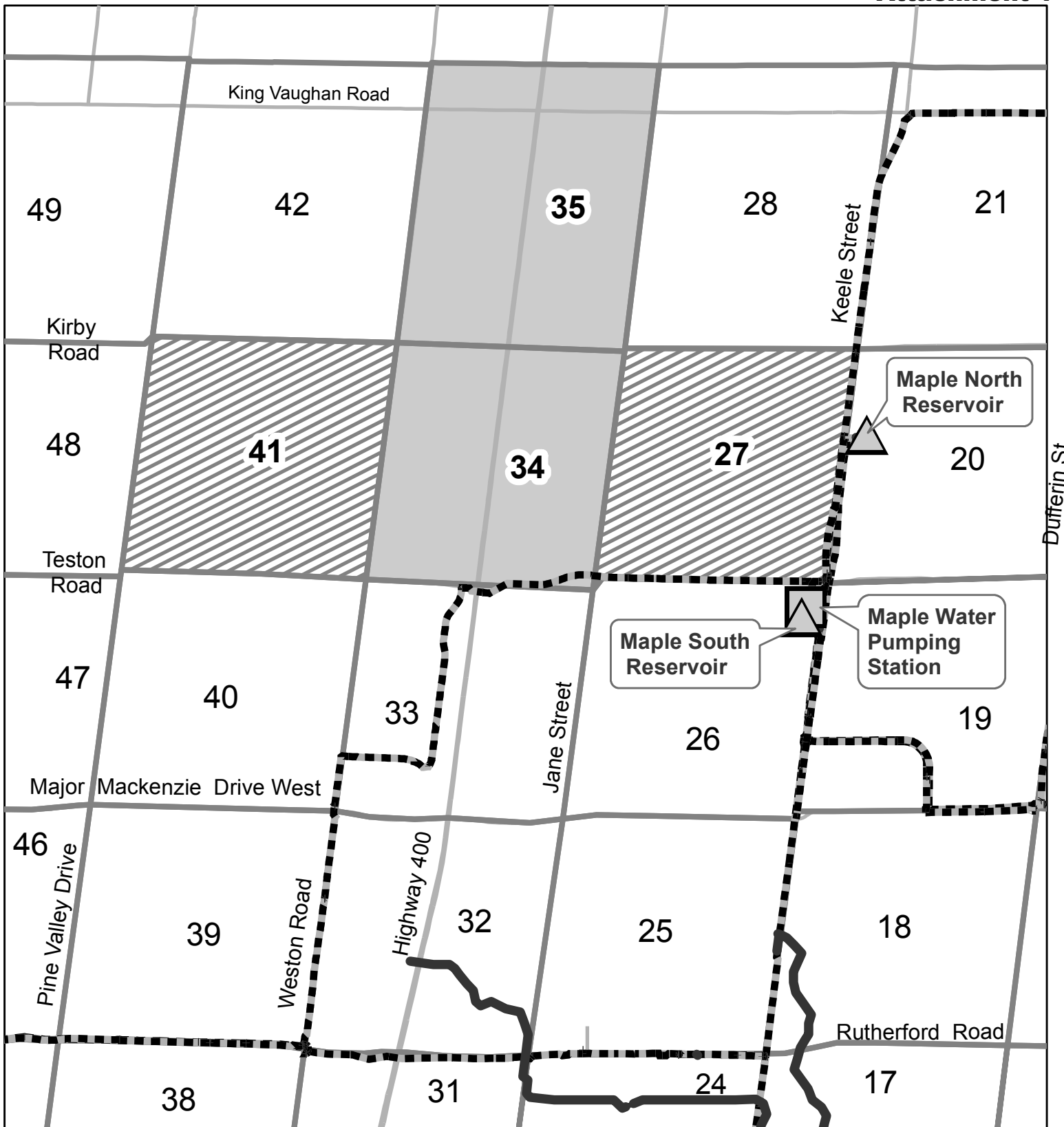
The Senior Management Group has reviewed this report.

April 6, 2017

Attachment

#7587835

Accessible formats or communication supports are available upon request



### Location Map for the City of Vaughan Blocks 27, 34, 35, and 41

Direct Purchase of Equipment for Capacity Expansion of the Maple Water Pumping Station  
 Report of the Commissioner of Environmental Services  
 May 11, 2017

Produced by:  
 Infrastructure Asset Management,  
 Environmental Services Department  
 The Regional Municipality of York  
 April 2017



### Legend

- Existing Watermain
- Existing Sewer Main
- Highway 400 North Employment Land
- New Community Area
- Vaughan Planning Block

