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# The Regional Municipality of Durham Report

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To: Works Committee  
From: Commissioner of Works  
Report: #2025-W-4  
Date: February 5, 2025

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**Subject:**

Sole Source Procurement of Equipment Replacement, Maintenance Service and Parts Supply for Existing Equipment Installed at Various Water and Wastewater Facilities throughout the Regional Municipality of Durham

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**Recommendations:**

That the Works Committee recommends to Regional Council:

- A) That staff be authorized to negotiate and award sole source agreements in 2025 for the unanticipated or end of life replacement of existing equipment installed at various Water and Wastewater facilities throughout the Regional Municipality of Durham, where using a different manufacturer would require significant structural, electrical, mechanical, communication, instrumentation and other supplementary modifications;
- B) That staff be authorized to negotiate and award sole source agreements in 2025 for maintenance service and parts supply for the existing equipment installed as components of various Water and Wastewater facilities throughout the Regional Municipality of Durham, with terms not to exceed five years;
- C) That financing for the sole source agreements for equipment replacement, maintenance service and parts supply be provided from the approved Water Supply and Sanitary Sewerage Operating Budgets, at a cost not to exceed \$12,265,000\*; and

- D) That the Commissioner of Finance be authorized to execute the necessary sole source agreements for equipment replacement, maintenance service and parts supply.
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**Report:****1. Purpose**

- 1.1 The purpose of this report is to seek Regional Municipality of Durham (Region) Council approval to award sole source agreements for equipment replacement, maintenance service and parts supply for existing major equipment installed as components of various Water and Wastewater facilities operated by the Region.
- 1.2 Dollar amounts followed by an asterisk (\*) are before applicable taxes.

**2. Background**

- 2.1 Existing equipment at various Water and Wastewater facilities was initially installed under a capital contract, through a competitive procurement process.
- 2.2 When replacing existing equipment that is at its end of life, consideration must be given to what additional modifications would be required to accommodate equipment from a different manufacturer such as supplementary structural, electrical, mechanical, communication and/or instrumentation modifications. Although a different manufacturer may offer comparable equipment at a lower price, the supplementary modifications that would be required to accommodate the equipment's physical and operational differences can significantly increase the overall replacement cost.
- 2.3 Regularly scheduled maintenance on existing equipment must be conducted as specified by the manufacturer to maintain warranties. Typically, qualified and trained personnel must conduct this specialized maintenance.
- 2.4 Consumable spare parts, replacement components, and other maintenance items are often only available through the original vendor or their authorized Ontario representative.
- 2.5 Specialized testing of some existing equipment components is required to comply with the Municipal Drinking Water Licence (MDWL), or the Environmental Compliance Approval (ECA) issued by the Ministry of the Environment, Conservation and Parks (MECP), or the Region will be at risk of non-compliance.

- 2.6 The Duffin Creek Water Pollution Control Plant (WPCP) and the Regional Environmental Laboratory, located in Pickering, are components of the York-Durham Sewage System (YDSS) Primary System. Operating costs related to those facilities are shared with the Regional Municipality of York. Durham Region's share of the operating costs is determined annually based on the YDSS Primary System Operating Agreement between the Regions of York and Durham.

### **3. Previous Related Reports and Decisions**

- 3.1 In May 2011, Regional Council approved Works Committee Report #2011-W-43 authorizing the negotiation of sole source maintenance services and parts supply agreements for major items installed as components of the Stage 3 expansion of the Duffin Creek WPCP, with terms not to exceed five years.
- 3.2 Report #2011-W-43 noted that following approval of that report, additional equipment for the Duffin Creek WPCP may be identified as requiring maintenance service or parts supply agreements, which would be reported separately.
- 3.3 In March 2017, Regional Council approved Works Committee Report [#2017-COW-51](#), authorizing the renewal of approvals granted under Report #2011-W-43 and additional vendors for equipment installed at the Duffin Creek WPCP under the Stages 1 & 2 Liquids Rehabilitation Project, with terms not to exceed five years.
- 3.4 In November 2017, Regional Council approved Works Committee Report [#2017-COW-244](#) authorizing an increase in the value of the sole source agreement for C&M Environmental, one of the vendors approved under Report [#2017-COW-51](#), due to an increased scope of maintenance activities and an increase in the supply of spare parts.
- 3.5 In August 2018, Council Recess Approval was granted to negotiate sole source maintenance service and/or parts supply agreements for equipment installed at the Duffin Creek WPCP by three additional vendors, with terms not to exceed five years.
- 3.6 In April 2020, Regional Council approved Committee of the Whole Report [#2020-COW-16](#), authorizing staff to enter into a sole source maintenance agreement with AB SCIEX LP to perform annual maintenance on the analytical Liquid Chromatography Mass Spectrometers used to analyze drinking water samples at the Regional Environmental Laboratory.

- 3.7 In September 2021, Regional Council approved Works Committee Report #[2021-W-30](#), authorizing the negotiation of a sole source maintenance and parts supply agreement with Flowpoint Systems for bulk water filling station hardware installed at the Zone 4 Reservoir in Seaton, and for septage receiving hardware installed at the Duffin Creek WPCP and various other WPCP throughout Durham Region, with terms not to exceed five years.
- 3.8 In September 2021, Regional Council approved Works Committee Report #[2021-W-32](#) authorizing the renewal of the sole source Agreements for Maintenance Service and/or Parts Agreements negotiated for Equipment installed at the Duffin Creek WPCP, with terms not to exceed five years.
- 3.9 In March 2023, Regional Council approved Works Committee Report #[2023-W-09](#), authorizing staff to enter into a sole source maintenance service and parts supply agreement with Trojan Technologies for ultraviolet (UV) light disinfection equipment installed at various water supply facilities throughout the Region, with terms not to exceed five years.
- 3.10 In June 2023, Regional Council approved Works Committee Report #[2023-W-28](#) authorizing the increase of the value of the sole source agreement for Xylem Canada, one of the vendors approved under Report #[2021-W-32](#), due to an increased scope of maintenance activities and an increase in the supply of spare parts.
- 3.11 September 2023, Regional Council approved Works Committee Report #[2023-W-36](#), authorizing staff to enter into sole source maintenance service and parts supply agreements with various suppliers for equipment installed at various Water Pollution Control Plants (WPCP) and Sanitary Sewage Pumping Stations (SSPS) throughout the Region, with terms not to exceed five years.
- 3.12 In April 2024, Regional Council approved Works Committee Report #[2024-W-12](#), authorizing staff to enter into sole source equipment replacement, maintenance service, and parts supply agreements with various suppliers for equipment installed at various Water and Wastewater facilities throughout the Region, with terms not to exceed five years.

#### **4. Rationale for Sole Source Approval of Equipment Replacement, Maintenance Service and Parts Supply Agreements**

- 4.1 Water and wastewater process equipment typically requires major rehabilitation every five years and has a life expectancy of 15 to 20 years. The equipment currently in use at the Region's various Water and Wastewater facilities has been operational for periods ranging from five to over 35 years. Consequently, many wearable parts are due for replacement now and in the near future to ensure the facilities remain in good working condition.
- 4.2 The original spare parts inventories supplied as part of capital contracts have been, or will soon be, depleted. Onsite inventories need to be replenished to facilitate efficient maintenance planning and execution. Additionally, agreements for spare parts and maintenance must also be established to support preventative maintenance and address unplanned activities.
- 4.3 Some equipment components require specialized testing services to be procured and scheduled to mitigate the Region's risk of non-compliance.
- 4.4 Scheduled interventions to proactively replace assets prior to failure are increasing in frequency as the Region's asset base continues to mature.
- 4.5 The agreements with manufacturers or their sole authorized suppliers to replace, maintain, and provide parts for the equipment installed at the Region's various Water and Wastewater facilities will be ongoing and frequent.
- 4.6 Finalization of the cost, scope and term will be negotiated with the respective manufacturer and/or supplier upon Regional Council's approval of this report, with the term not to exceed five years.

#### **5. Proposed Vendors**

- 5.1 Based on a review of the prior procurement of representative equipment replacement, maintenance service, and parts supply agreements, it is estimated that the total cost of the sole source agreements will not exceed \$12,265,000\*. The Region's share is estimated at \$7,823,000, while the Region of York will be responsible for the remaining \$4,442,000 for the co-owned facilities.
- 5.2 The proposed vendors for the supply of equipment replacement, maintenance service, and parts supply for existing equipment installed as components of various Water Supply Plants, Water Pumping Stations, and Water Storage

Facilities operated by the Regional Municipality of Durham, and owned solely by the Region are listed in Attachment #1. The total estimated cost for the replacement of equipment at various Water Systems Facilities cost is \$3,078,000\*.

- 5.3 The proposed vendors for the supply of equipment replacement, maintenance service, and parts supply for existing equipment installed as components of various Water Pollution Control Plants and Sanitary Sewage Pumping Stations that are operated by the Regional Municipality of Durham, and owned solely by the Region are listed in Attachment #2. The total estimated cost for the replacement of equipment at various Wastewater Systems Facilities is \$3,731,000\*.
- 5.4 The proposed vendors for the supply of equipment replacement, maintenance service, and/or parts supply for existing equipment installed as components of the Duffin Creek Water Pollution Control Plant which is operated by the Regional Municipality of Durham, and co-owned by York and Durham Regions are listed in Attachment #3. The total estimated cost for the replacement of equipment at the York Durham Sewage System Facility (Duffin Creek Water Pollution Control Plant) is **\$5,344,000**.
- 5.5 The vendors that currently provide equipment replacement, maintenance service, and/or parts supply for existing equipment installed as components of the Regional Environmental Laboratory which is operated by the Regional Municipality of Durham, and co-owned by York and Durham Regions are listed in Attachment #4. The total estimated cost for the replacement of equipment at the Regional Environmental Laboratory is \$112,000.

## **6. Financial Implications**

- 6.1 Section 7.2 of the Region's Purchasing By-law #16-2020 permits the acquisition of goods and services through sole source negotiations under specific circumstances outlined in Appendix "C" of the by-law. Section 1.1 of Appendix "C" permits negotiations for goods or services that can be supplied only by a particular supplier where no reasonable alternative or substitute goods or services exist to ensure compatibility with existing goods or to maintain specialized goods that must be maintained by the manufacturer of those goods or its representative. The by-law also requires approval by the appropriate standing committee and Council for the award of sole source contracts that exceed \$100,000 in value.

- 6.2 Financing for the sole source agreements for equipment replacement, maintenance service and parts supply will be provided from the approved Water Supply and Sanitary Sewerage Operating Budgets at an estimated cost not to exceed \$12,265,000\*.

## **7. Relationship to Strategic Plan**

- 7.1 This report aligns with/addresses the following strategic goals and priorities in the Durham Region Strategic Plan:
- a. Optimize resources and partnerships to deliver exceptional quality services and value.
  - b. Collaborate for a seamless service experience.
- 7.2 Standardization of supplies and services for specialized equipment will promote asset longevity and reduce unplanned facility maintenance events.

## **8. Conclusion**

- 8.1 It is recommended that Regional Municipality of Durham Council approve the award of sole source agreements for equipment replacement, maintenance service and parts supply, subject to negotiations of contracts satisfactory to the Commissioner of Finance, for equipment installed as components of various Water and Wastewater facilities operated by the Regional Municipality of Durham.
- 8.2 This report has been reviewed by the Finance Department and the Commissioner of Finance concurs with the recommendations.
- 8.3 For additional information, contact Rich Tindall, Manager, Water and Wastewater Treatment, at 905-668-4113 extension 3547.

## **9. Attachments**

Attachment #1: Replacement of Equipment at Various Water Systems Facilities

Attachment #2: Replacement of Equipment at Various Wastewater Systems Facilities

Attachment #3: Replacement of Equipment at the York Durham Sewage System Facility (Duffin Creek Water Pollution Control Plant)

Attachment #4: Replacement of Equipment at the Regional Environmental Laboratory

Respectfully submitted,

**Original signed by Christine Dunkley, Director of Corporate Infrastructure and Strategic Business Services for:**

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Ramesh Jagannathan, MBA, M.Eng., P.Eng., PTOE  
Commissioner of Works

Recommended for Presentation to Committee

**Original signed by:**

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Elaine C. Baxter-Trahair  
Chief Administrative Officer



**Attachment #1 – Replacement of Equipment at Various Water Systems Facilities**

<b>Item</b>	<b>Authorized Supplier</b>	<b>Comments</b>	<b>Estimated Annual Costs *</b>
UPS	Access Group Inc.	Installed at various water supply facilities throughout the Region  Spare parts and service as required	\$108,000
Magnetic Flowmeters	ACG-Envirocan Inc.	Installed at various water supply facilities throughout the Region  Spare parts and service as required	\$108,000
Variable Frequency Drives	Benshaw Canada Controls Inc.	Installed at various water supply facilities throughout the Region  Spare parts and service as required	\$108,000
Chemical Feed Pumps; Chlorinators; Analyzers;	Bisan Trading & Industrial Services	Installed at various water supply facilities throughout the Region  Spare parts and service as required	\$108,000
Motor Control Centres	Cutler-Hammer/Eaton Industries (Canada) Company	Installed at various water supply facilities throughout the Region  Spare parts and service as required	\$270,000
Gate Valves; Butterfly Valves; Pressure Reducing Valves	Devine & Associates Limited	Installed at various water supply facilities throughout the Region  Spare parts and service as required	\$108,000
Instrumentation Control Valves	Endress & Hauser Canada Ltd.	Installed at various water supply facilities throughout the Region  Spare parts and service as required	\$108,000

<b>Item</b>	<b>Authorized Supplier</b>	<b>Comments</b>	<b>Estimated Annual Costs *</b>
Chemical Feed Pumps; Chlorinators; Analyzers	Evoqua Water Technologies Ltd.	Installed at various water supply facilities throughout the Region  Spare parts and service as required	\$270,000
Bulk Water Filling Station Hardware	Flowpoint Environmental Systems LP	Installed at Zone 4 Reservoir in Seaton  Spare parts and service as required	\$108,000
Level Transmitters	Franklin Empire Inc.	Installed at various water supply facilities throughout the Region  Spare parts and service as required	\$108,000
Ultraviolet (UV) Light Disinfection Equipment	H2Flow Equipment Inc.	Installed at various water supply facilities throughout the Region  Spare parts and service as required	\$297,000
Water quality sampling equipment	Hach Sales and Services Canada Ltd.	Utilized at various water supply facilities throughout the Region  Annual calibration & verification, with spare parts and service as required	\$108,000
Instrumentation Control Valves; System Software	Lakeside Process Controls Ltd	Installed at various water supply facilities throughout the Region  Spare parts and service as required  Annual software license renewals	\$108,000
Actuators	Rotork Controls (Canada) Ltd.	Installed at various water supply facilities throughout the Region  Spare parts and service as required	\$162,000

<b>Item</b>	<b>Authorized Supplier</b>	<b>Comments</b>	<b>Estimated Annual Costs *</b>
Chemical Feed Pumps; Chlorinators; Analyzers	SCG Process	Installed at various water supply facilities throughout the Region  Spare parts and service as required	\$135,000
Hazardous Gas Detectors	SPD Sales Limited	Installed at various water supply facilities throughout the Region  Spare parts and service as required	\$108,000
Gate Valves; Ball Valves; Butterfly Valves; Pressure Reducing Valves; Duckbill Check Valves	Syntec Process Equipment Ltd	Installed at various water supply facilities throughout the Region  Spare parts and service as required	\$270,000
Actuators	Troy-Ontor Inc.	Installed at various water supply facilities throughout the Region  Spare parts and service as required	\$162,000
Calibrators	Veronics Instruments Inc.	Installed at various water supply facilities throughout the Region  Spare parts and service as required	\$108,000
Chemical Feed Pumps; Chlorinators; Analyzers	Vissers Sales Corp.	Installed at various water supply facilities throughout the Region  Spare parts and service as required	\$108,000

<b>Item</b>	<b>Authorized Supplier</b>	<b>Comments</b>	<b>Estimated Annual Costs *</b>
Variable Frequency Drives	Westburne Ontario	Installed at various water supply facilities throughout the Region  Spare parts and service as required	\$108,000
<b>Total Estimated Cost</b>	-	-	<b>\$3,078,000</b>

**Attachment #2 – Replacement of Equipment at Various Wastewater Systems Facilities**

<b>Item</b>	<b>Authorized Supplier</b>	<b>Comments</b>	<b>Estimated Annual Costs*</b>
Bar Screens; Washer Compactors	ACG Environmental	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$135,000
Aeration Blowers	APG-Neuros	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$216,000
Variable Frequency Drives; Motor Control Centre Panels	Benshaw Canada controls Inc.	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$108,000
Actuators	Devine & Associates Limited	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$150,000
Waste Heat Boilers; Feedwater Pumps; Rotary Lobe Pumps; Grit Slurry Pumps; Grit Classifiers; RAS & WAS Pumps	Directrik Inc.	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$216,000
Primary Settling Tank Equipment; Flights and Chains; Clarifier Equipment	Evoqua Water Technologies Ltd.	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$200,000

Item	Authorized Supplier	Comments	Estimated Annual Costs*
Septic Receiving	Flowpoint Environmental Systems LP	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$86,000
SCBA Bottles, Harnesses and Regulators	Guillevan International Co	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$115,000
Motor Control Centres; Variable Frequency Drives	Guillevin International Co	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$270,000
Aeration Blowers	Howden Canada Inc.	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$270,000
Raw Lift Pumps	John Brooks Company Limited	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$108,000
Raw Lift Pumps	KSB Pumps Inc.	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$270,000
Motor Control Centres	Oscan Electrical Supplies Ltd.	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$125,000

Item	Authorized Supplier	Comments	Estimated Annual Costs*
Scum Collectors; Tank Collector Mechanisms;	OVIVO Canada Inc.	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$162,000
Diffused Aeration	PRO AQUA, Inc	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$200,000
Hydroxyl Bulbs, Lenses and Drives	Purified Air Solutions Inc.	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$75,000
Hazardous Gas Detectors	SPD Sales Limited	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$135,000
Raw Lift Pumps	Sulzer Pumps (Canada) Inc.	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$108,000
Gate Valves; Ball Valves; Butterfly Valves; Duck Bill Valves	Syntec Process Equipment Ltd	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$216,000
Variable Frequency Drives	Toshont Power Products	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$108,000

<b>Item</b>	<b>Authorized Supplier</b>	<b>Comments</b>	<b>Estimated Annual Costs*</b>
Actuators	Troy-Ontor Inc.	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$108,000
Digester Gas Flares	Westech Industrial Ltd.	Installed at various WPCP and SSPS throughout Durham Region  Spare parts and service as required	\$100,000
Submersible Raw Sewage Pumps	Xylem Canada LP	Installed at various WPCP and SSPS throughout Durham Region  Annual pump removal/inspection, with spare parts and service as required	\$250,000
<b>Total Estimated Cost</b>	-	-	<b>\$3,731,000</b>



**Attachment #3 – Replacement of Equipment at the York Durham Sewage System Facility  
(Duffin Creek Water Pollution Control Plant)**

<b>Item</b>	<b>Authorized Supplier</b>	<b>Comments</b>	<b>Estimated Annual Costs</b>	<b>Durham Share</b>	<b>York Share</b>
Bar Screens; Washer Compactors	ACG Envirocan	Installed at Duffin Creek WPCP  Spare parts and service as required	<b>\$175,000</b>	\$31,000	\$144,000
Dewatering Centrifuge	Alfa Laval Inc.	Installed at Duffin Creek WPCP  Spare parts and service as required	<b>\$135,000</b>	\$24,000	\$111,000
Incineration Waste Heat Boiler and Heat Exchanger	Arvos Group	Installed at Duffin Creek WPCP  Spare parts and service as required	<b>\$162,000</b>	\$29,000	\$133,000
Secondary Cross Collector Chain and Flight Equipment  Grit and Screening Conveyors	C & M Environmental Technologies Inc.	Installed at Duffin Creek WPCP  Chain replacement as required	<b>\$324,000</b>	\$58,000	\$266,000
DO Meters; MLSS Analyzers	Cancoppas Limited	Installed at Duffin Creek WPCP  Spare parts and service as required	<b>\$100,000</b>	\$18,000	\$82,000

Item	Authorized Supplier	Comments	Estimated Annual Costs	Durham Share	York Share
Mercury Removal Scrubber Equipment	CECO Environmental Corporation	Installed at Duffin Creek WPCP  Spare parts and service as required	<b>\$100,000</b>	\$18,000	\$82,000
Actuators	Devine & Associates Ltd	Installed at Duffin Creek WPCP  Spare parts and service as required	<b>\$50,000</b>	\$9,000	\$41,000
Waste Heat Boilers; Feedwater Pumps; Rotary Lobe Pumps; Grit Slurry Pumps; Grit Classifiers; RAS & WAS Pumps	Directrik Inc.	Installed at Duffin Creek WPCP  Spare parts and service as required	<b>\$475,000</b>	\$85,000	\$390,000
Knifegate Valves	Everest Automation Inc.	Installed at Duffin Creek WPCP  Spare parts and service as required	<b>\$60,000</b>	\$11,000	\$49,000

Item	Authorized Supplier	Comments	Estimated Annual Costs	Durham Share	York Share
Septic Receiving	Flowpoint Environmental Systems LP	Installed at Duffin Creek WPCP  Spare parts and service as required	<b>\$22,000</b>	\$4,000	\$18,000
Aeration Blowers;  Fluidized Air Blowers	Howden Canada Inc.	Installed at Duffin Creek WPCP  Spare parts and service as required	<b>\$550,000</b>	\$99,000	\$451,000
Instrumentation;  Steam & Hot Water Control Valves;  Instrumentation Software	Lakeside Process Controls Ltd.	Installed at Duffin Creek WPCP  Spare parts and service as required  Annual software license renewals	<b>\$270,000</b>	\$48,000	\$222,000
Oxygen Analyzers	Novatech Analytical Solutions Inc.	Installed at Duffin Creek WPCP  Spare parts and service as required	<b>\$216,000</b>	\$39,000	\$177,000

Item	Authorized Supplier	Comments	Estimated Annual Costs	Durham Share	York Share
Primary Settling Tank Travelling Bridges and Scum Collectors;  Ash Thickening Tank Collector Mechanisms;  Ash Vacuum Filters and Pumps;  Linear Motion Mixers	OVIVO Canada Inc.	Installed at Duffin Creek WPCP  Spare parts and service as required	<b>\$410,000</b>	\$73,000	\$337,000
Sludge Cake Pumps;  Dewatering conveyors;  Diffused Aeration	PRO AQUA, Inc.	Installed at Duffin Creek WPCP  Spare parts and service as required	<b>\$324,000</b>	\$58,000	\$266,000
Density Meters	SPD Sales Limited	Installed at Duffin Creek WPCP  Spare parts and service as required	<b>\$200,000</b>	\$36,000	\$164,000
Dewatering Pumps	Sulzer Pumps (Canada) Inc.	Installed at Duffin Creek WPCP  Spare parts and service as required	<b>\$60,000</b>	\$11,000	\$49,000

Item	Authorized Supplier	Comments	Estimated Annual Costs	Durham Share	York Share
Auxiliary Boilers	Thermogenics Inc.	Installed at Duffin Creek WPCP  To be phased out, but may require interim intervention to keep operable	<b>\$100,000</b>	\$18,000	\$82,000
Variable Frequency Drives	Toshont Power Products	Installed at Duffin Creek WPCP  Spare parts and service as required	<b>\$54,000</b>	\$10,000	\$44,000
Actuators	Troy-Ontor Inc.	Installed at Duffin Creek WPCP  Spare parts and service as required	<b>\$200,000</b>	\$36,000	\$164,000
Refractory	Veolia Water Technologies Canada Inc.	Installed at Duffin Creek WPCP  Spare parts and service as required	<b>\$270,000</b>	\$48,000	\$222,000
Hot Water Boilers	Waterloo Manufacturing Company, Limited	Installed at Duffin Creek WPCP  Spare parts and service as required	<b>\$162,000</b>	\$29,000	\$133,000

Item	Authorized Supplier	Comments	Estimated Annual Costs	Durham Share	York Share
Digester Gas Flares; Continuous Emissions Monitoring System	Westech Industrial Ltd.	Installed at Duffin Creek WPCP  Spare parts and service as required	<b>\$375,000</b>	\$67,000	\$308,000
Submersible Raw Sewage Pumps	Xylem Canada Company	Installed at Duffin Creek WPCP  Annual pump removal/inspection, with spare parts and service as required	<b>\$550,000</b>	\$99,000	\$451,000
<b>Total Estimated Annual Cost</b>	-	-	<b>\$5,344,000</b>	<b>\$958,000</b>	<b>\$4,386,000</b>

**Attachment #4 – Replacement of Equipment at the Regional Environmental Laboratory**

<b>Item</b>	<b>Authorized Supplier</b>	<b>Comments</b>	<b>Estimated Annual Costs (Excl. HST)</b>	<b>Durham Share</b>	<b>York Share</b>
Liquid Chromatography Mass Spectrometers	AB SCIEX Sales LP	Utilized at Regional Environmental Laboratory  Annual maintenance, with spare parts and service as required	<b>\$112,000</b>	\$56,000	\$56,000
<b>Total Estimated Annual Cost</b>	-	-	<b>\$112,000</b>	<b>\$56,000</b>	<b>\$56,000</b>