

<b>TO:</b>	<b>CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON APRIL 2, 2012</b>
<b>FROM:</b>	<b>JOHN BRAAM, P. ENG. ACTING EXECUTIVE DIRECTOR, PLANNING, ENVIRONMENTAL AND ENGINEERING SERVICES &amp; CITY ENGINEER</b>
<b>SUBJECT:</b>	<b>TENDER 12-35 DINGMAN CREEK PUMPING STATION UPGRADES PROJECT ES5143</b>

<b>RECOMMENDATION</b>
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That, on the recommendation of the Acting Executive Director Planning, Environmental and Engineering Services and City Engineer, the following actions **BE TAKEN** with respect to the award of a contract for the Dingman Creek Pumping Station Upgrades.

- (a) the proposal submitted by Bre-Ex Limited, 247 Exeter Road, London, Ontario N6L 1A5, at its price of \$285,796.17 excluding H.S.T., for the installation of Dingman Creek Pumping Station Upgrades **BE ACCEPTED**; it being noted Bre-Ex Limited submitted the lowest bid and meets all the terms, conditions and specifications;
- (b) the financing for this project **BE APPROVED** as set out in the Sources of Financing Report attached hereto as Appendix "A";
- (c) Stantec Consulting **BE AUTHORIZED** to carry out resident inspection and contract administration for the said project in accordance with the estimate, on file, at an amount of \$29,588.00 excluding H.S.T., noting that this firm completed the design, based upon the Fee Guideline for Professional Engineering Services, 2006, recommended by the Ontario Society of Professional Engineers; and in accordance with Section 15.2 (g) of the Procurement of Goods and Services Policy;
- (d) The Civic Administration **BE AUTHORIZED** to undertake all the administrative acts that are necessary in connection with these projects; and,
- (e) The approvals given herein **BE CONDITIONAL** upon the Corporation entering into a formal contract or issuing a purchase order for the work to be done relating to this project.

<b>PREVIOUS REPORTS PERTINENT TO THIS MATTER</b>
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**NONE**

<b>BACKGROUND</b>
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**Purpose:**

The purpose of this report is to recommend Bre-Ex Limited to construct the Dingman Creek Pumping Station Upgrades and recommend Stantec Consulting Ltd. (Stantec) to carry out resident inspection and contract administration.

**Context:**

Upgrades to the Dingman Creek Pumping Station site will improve how hauled liquid waste is conveyed into the City's sewer system and provide haulers with more reliable hours to dispose

Agenda Item #	Page #

of their loads. A new fats, oil and grease (FOG) separator will allow for the removal of FOG from the City's Wastewater Treatment facilities.

**Discussion:**

Sanitary sewers in the White Oaks area of London are susceptible to increased inflow and infiltration during snow melt or after heavy precipitation. At these times the Dingman wastewater storage facility is filled to minimize bypasses and temporarily store wet weather flow until there is capacity in the system to receive extra flow. When the storage pond is full, hauled liquid waste haulers are prohibited from unloading because there is a chance that their loads could be bypassed to Dingman Creek. By-passes are permitted to protect homeowners and businesses from health or property damage due to basement flooding.

The existing configuration of sewers for the receipt of hauled liquid waste has two dumping manholes that drain to a chamber that connects to the wet well. Despite using the storage pond, bypasses occur from time to time when the pond is full and the downstream Wonderland Pumping Station is pumping at capacity. To avoid hauled liquid waste bypasses into Dingman Creek when the storage pond is full, permission to truck and receive the waste at the Pottersburg Wastewater Treatment Plant is needed to give haulers an ability to unload. Alternative arrangements take time and require buy-in from the Ministry of the Environment. The proposed upgrades will route wastewater piping around the station to the gravity sewer and eliminate the potential for bypassing of hauled liquid wastes or the need for alternative disposal sites. Upon completion, haulers will be able to unload at any time during operating hours.

Two new grease separator tanks are also being installed to receive fats oils and grease (FOG) from City of London wastewater treatment plants, pumping stations and septage haulers. FOG is routinely collected at plants as part of the wastewater treatment process. FOG also accumulates in the wet wells at pumping stations and specialty haulers are called in from time to time to skim off the grease for disposal. If there is too much water mixed with the FOG, the landfill won't accept the waste and disposal is difficult.

The new Green Turtle separator will isolate and consolidate the FOG and prevent the FOG from re-entering the sewer system. Disposal options for the collected FOG include landfilling, land application by Ministry of the Environment approved licensed operators or disposal into digesters which convert the fats, oils and grease into biogas to generate electricity.

Upgrades to the station will also include restoring the paved areas which are in poor condition and in need of repair.

With the completion of the W12A Landfill Pumping Station and leachate forcemain to convey leachate flows into the system, there will be reduced tanker truck traffic at the Dingman site. With recent upgrades to the odour control chemical system, these improvements provide a cost effective way to receive and convey hauled liquid wastes for ultimate treatment at the Greenway Wastewater Treatment Centre. The upgrades will reduce the risk of hauled liquid waste bypasses, improve FOG removal and offer reliable hours of operation for haulers.

Upgrades at the Dingman station will defer the need for the Hauled Liquid Waste Receiving and Pre-treatment Facility which is estimated to have a capital cost of over \$7M. This decision was made after considering a number of factors including:

- Reduced leachate strength and approval to pump and convey leachate into the system;
- Improvements in chemical sewage conditioning;
- Successful lining of previously deteriorated sewers;
- Increased capacity from the Greenway Expansion and Upgrade;
- The effective use of the Gordon Avenue Biofilter to control odours, and
- Upgrades to the station to minimize bypasses, reduce FOG and provide consistent hours of operation for haulers.

Agenda Item #	Page #

**Tender**

Tenders for the Dingman Creek Pumping Station Upgrades were opened on Thursday, March 1, 2012. All tenders have been checked by Stantec and the City of London’s Wastewater and Treatment Operations Division. Three contractors submitted tenders as follows:

CONTRACTOR		TENDER PRICE SUBMITTED (exclusive of H.S.T.)	CORRECTED TENDER PRICE (exclusive of H.S.T.)
1.	Bre-Ex Limited	\$298,496.17	\$285,796.17
2.	Frank Van Bussel and Sons Limited	\$299,048.28	\$312,488.28
3.	2153592 Ontario Limited (Elgin Construction)	\$408,711.33	-

Two (2) of the above noted bids contained mathematical errors in the tender price (excluding H.S.T.) and the corrected tender prices are shown. Bre-Ex Limited was the lowest bid.

All proposals included a contingency allowance of \$20,000.00. All tenders came in above the consulting engineer’s estimate of \$278,840.00 (excluding H.S.T.).

There are no anticipated additional operating costs to the Planning, Environmental and Engineering Services budget in 2012 or subsequent years associated with the approval of this tender. There is an anticipated net savings due to the capture of grease and expected reductions in the amount of grease captured at plants and pumping stations.

**Resident Inspection and Contract Administration**

Staff reviewed a proposal from Stantec and recommends the appointment of Stantec to carry out the resident inspection and contract administration. Stantec had completed the last upgrades to the Dingman Creek Pumping Station and Storage Pond, and with their design of these upgrades, Stantec are well suited to complete the work.

**Summary:**

The Dingman Pumping Station modifications will provide a separate dumping station for leachate and septage, and FOG. The works will include two new grease interceptors, gravity sewers and connections, new dumping maintenance holes, and asphalt replacement.

It is recommended that Bre-Ex Limited be awarded the Dingman Creek Pumping Station Upgrades contract. It is also recommended that Stantec Consulting be awarded the Contract Administration.

**Acknowledgements:**

This report was prepared within the Wastewater Treatment Operations Division by Richard Todd, P.Eng. Environmental Services Engineer and Mark Elliott, Senior Engineering Technologist.

Agenda Item #

Page #

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SUBMITTED BY:	RECOMMENDED BY:
<b>GEORDIE GAULD DIVISION MANAGER WASTEWATER &amp; TREATMENT OPERATIONS</b>	<b>JOHN BRAAM, P.ENG. ACTING EXECUTIVE DIRECTOR, PLANNING, ENVIRONMENTAL AND ENGINEERING SERVICES &amp; CITY ENGINEER</b>

March 27, 2012

/me

Attach: Appendix "A" – Sources of Financing

c.c. Curtis Brekelmans - Bre-Ex Limited  
Anna Cleaver, P.Eng., Stantec Consulting

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