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TO:	CHAIR AND MEMBERS CIVIC WORKS COMMITTEE MEETING ON MONDAY, APRIL 2, 2012
FROM:	JOHN BRAAM, P.ENG. ACTING EXECUTIVE DIRECTOR, PLANNING, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER
SUBJECT:	EMERGENCY REPAIR-GREENWAY 4 FINAL

RECOMMENDATION

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 section 14.2 of the Procurement of Goods and Services Policy and the emergency repair of the section three, number four final clarifier at the Greenway Wastewater Treatment Plant. (Project ES5084)

- (a) The final price of \$88,494.99 excluding HST, for the repair as submitted by Yarmouth Crane Service, 9462 Tower Road, RR#3 St. Thomas, Ontario **BE ACCEPTED.**
- (b) The financing for this project as identified in the Sources of Financing Report attached hereto as Appendix "A" **BE ACCEPTED.**

PREVIOUS REPORTS PERTINENT TO THIS MATTER
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None

BACKGROUND

On January 13, 2012, the clarifier mechanism for three section number four final collector mechanism failed. This clarifier handles 40 percent of the section three flows or roughly 36 Megalitres per day. (8MGD) This represents a substantial portion of the total flow treated at the Greenway plant. The Ministry of Environment was immediately notified of the failure and the emergency repair process started Monday January 16. Three suppliers were contacted regarding the supply of drawings and guidance on the repairs and Yarmouth Crane Services was brought in to assess the equipment needed to disassemble and repair the mechanism; the tank is not close to paved access and a large crane would be needed.

Yarmouth started to disassemble the mechanism and decided they could complete the repairs without drawings as most of the structure was undamaged and could be used for measurements. Yarmouth could also fabricate any needed parts in their shop. Approaching the repairs this way would save time over preparing the drawings and then building the parts at the supplier facilities. Removal of the damaged mechanism started January 23, 2012, reinstallation began February 14, 2012 and the clarifier was returned to service February 24, 2012. The total cost of the repairs including craning was \$88,494.99 plus HST.

All clarifier mechanisms in use at the City's Wastewater Treatment Plants receive annual preventative maintenance (PM) inspections. This failure appears to be attributable to a faulty torque limiting switch in combination with a structural failure and excessive wear on previously unidentified wear blocks. The PM inspections will now include closer scrutiny of these items. This particular clarifier has previously been identified as a potential liability given its excessive size and the large proportion of flows treated and the tank will be reallocated to a less critical use in the planned Greenway expansion.

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Acknowledgements

This report was prepared by Mark Spitzig, Operations Manager, Wastewater and Treatment Operations.

PREPARED BY:	RECOMMENDED BY:
GEORDIE GAULD DIVISION MANAGER, WASTEWATER AND TREATMENT OPERATIONS	JOHN BRAAM, P.ENG. ACTING EXECUTIVE DIRECTOR, PLANNING, ENVIRONMENTAL & ENGINEERING SERVICES & CITY ENGINEER