# The Corporation of the City of Kawartha Lakes

# Council Report

**Report Number PUR2018-030**

**Date:** **July 17, 2018**
**Time:** 2:00 p.m.
**Place:** Council Chambers

**Ward Community Identifier:** Ward 5

**Title: 2018-57-CP Engineering and Design Services for Lindsay Water Pollution Control Plant Upgrades – Phase 1**

**Author and Title:** Linda Lee, Buyer
Nafiur Rahman, Senior Engineering Tech.

## Recommendation(s):

**That** Report PUR2018-030, 2018-57-CP Engineering and Design Services for Lindsay WPCP Upgrades – Phase 1, be received;

**That** Cima Canada Inc., of Bowmanville, be awarded 2018-57-CP Engineering and Design Services for Lindsay WPCP Upgrades – Phase 1, as the highest scoring Proponent;

**That** subject to receipt of the required documents, the Mayor and Clerk be authorized to execute the agreements to award the contract; and

**That** the Procurement Division be authorized to issue a Purchase Order.

**Department Head:** _____

**Financial/Legal/HR/Other:** _____

**Chief Administrative Officer:** _____

## Background:

The Lindsay Water Pollution Control Plant (WPCP) is situated directly north of the community of Lindsay settlement area adjacent to the Scugog River and the City's Lindsay-Ops Landfill site. It was originally constructed in 1962/64 as a facultative lagoon treatment system and has been subsequently upgraded several times in the past.

The current Lindsay WPCP is an extended aeration facility with a rated Average Daily Flow (ADF) capacity of 21,500 $m^3$/day as per the current MOECC Environmental Compliance Approval (ECA). Considering the City's completed Growth Management Strategy and Municipal Master Plan Project forecast rate of population growth, the existing WPCP will run out of reserve capacity by approximately 2022. Due to the increased demand of current and future residential, commercial and industrial development within the area and the operational issues and deficiencies in WPCP, the City completed a Schedule "C" Municipal Class Environmental Assessment (Class EA) study in 2015. The study focused on providing additional wastewater treatment capacity and improving WPCP operations by upgrading the WPCP's treatment process and improved effluent quality to service approved growth for the community of Lindsay.

The Class EA was completed in accordance with the Municipal Class Environmental Assessment process and was received by Council as follows:

**RESOLVED THAT** Report WWW2015-001, **Lindsay Water Pollution Control Plant (WPCP) - EA Update**, be received;
**THAT** the recommendations in the attached "Lindsay Water Pollution Control Plant upgrades, Municipal Class Environmental Study Report (Jan 2015)" be endorsed by Council;
**THAT** the notice of completion be forwarded to MOE and posted on the City's Website for 30 calendar days and posted in the local newspaper as per the Municipal Class EA process;
**THAT** the Environmental Study Report (Jan 2015) be made available at the Clerk's office and the Lindsay Library for review by the public and other interested parties for 30 calendar days.

**CR2015-132**

As per EA study, the preferred design is to upgrade and expand the existing Lindsay WPCP to an ultimate capacity of 42,756 $m^3$/day on the existing site in two phases. Due to the uncertainty of phasing of forecasted growth during the EA

study, the Phase 1 upgrades considered to provide the Lindsay WPCP to an ADF capacity of 24,500 $m^3$/day to meet the servicing requirements up to 2025, while taking into account planning for the future construction of additional works during Phase 2 to accommodate servicing of Lindsay to full build-out in 2048.

The Phase 1 upgrades will include expansion and upgrading the treatment system to include improved aeration and other miscellaneous improvements to address operational issues and deficiencies. The Phase 2 upgrades will be confirmed through further EA study while incorporating the updated Growth Management Plan and Lindsay Wastewater System Capacity Assessment.

The Request for Proposal (RFP) 2018-57-CP Engineering Services, Design, and Contract Preparation for WPCP – Phase 1 was released and advertised in accordance with the Purchasing Policy.

The RFP closed on Thursday May 17, 2018 and was opened in public by Councillor Pat O'Reilly and Launa Lewis, Supervisor of Financial Services. Proposals were received from the following:

| Company |
|---|
| CIMA Canada Inc |
| AECOM |
| Associated Engineering |
| Wood Environmental & Infrastructure |
| D.M. Wills Associates |
| WSP |
| Hatch |
| J.L. Richards |

Submissions were carefully reviewed and evaluated by the evaluation committee by consensus to the criteria described in the RFP, and CIMA Canada Inc. was found to be the highest scoring proponent.

References were checked with no concerns identified.

## Rationale:

Staff recommends that CIMA Canada Inc., of Bowmanville, be awarded 2018-57-CP Engineering and Design Services for Lindsay WPCP Upgrades – Phase 1 as the highest scoring proponent.

## Other Alternatives Considered:

No other alternative is being considered as the competitive procurement processes were followed and the scope of work cannot be changed. So, the highest scoring proponent is being recommended.

## Financial/Operation Impacts:

| Capital Project Number | Project Budget | Other Committed Funds | Capital Project balance | Purchase Amount (excl. HST) | Contingency (10%) | HST Payable | Total Purchase | Project Balance |
|---|---|---|---|---|---|---|---|---|
| WW 1617 998161701 | $315,000 | $63,463 | $251,537 | $224,715 | $22,471 | $4,351 | $251,537 | $0 |
| WW1705 998170501 | $315,000 | $40,725 | $274,254 | $219,539 | $21,954 | $4,251 | $245,743 | $28,531 |
| TOTAL | $630,000 | $104,188 | $525,812 | $444,254 | $44,425 | $8,602 | $497,280 | $28,531 |

Other committed Funds include staff time.

Water and wastewater capital projects do not close with a surplus, only the amount required is funded based on costs incurred. Therefore these projects will close with a zero balance in the capital close report.

Upon completion of the work, any remaining surplus or deficit will be dealt with through the Capital close report presented to Council by the Treasury Department in accordance with the Capital Close Policy.

## Relationship of Recommendation(s) To The 2016-2019 Strategic Plan:

RFP 2018-57-CP – Engineering and Design Services for Lindsay WPCP Upgrades – Phase 1 aligns with the Corporate Strategic Goals “A Vibrant and Growing Economy", "An Exceptional Quality of Life", and "A Healthy Environment".

This Wastewater Capital Project directly aligns with these strategic goals by:

- Enabling efficient infrastructure and asset management;
- Priority Action - Protect and Enhance Water Quality;
- Support development by providing sanitary capacity;
- Update and execute Municipal Master Plans by implementing improvements to wastewater infrastructures.

## Servicing Implications:

Due to the uncertainty of phasing of forecasted growth as per City’s Growth Management Strategy completed in 2010, the Municipal Class EA for Lindsay WPCP Upgrades completed in 2015 identified that the existing Lindsay WPCP

will be upgraded in two phases. As per EA, the Phase 1 upgrades will be designed to ensure the wastewater capacity to 2025 (14% increase), while taking into account in design to allow for provision of future expansion and adaptability to accept the use of new technology as will be needed to improve the effluent quality and treat greater flows for full build-out in 2048 (est. 100% increase). The Ministry of Environment, Conservation and Parks (the then MOECC) commented that the Phase 2 expansion would need to be planned as a new schedule C project. The future EA undertaking will be planned with taking into account the future updates of City's Growth Management Plan and Lindsay Water/Wastewater Capacity Study.

As per current EA, the estimated capital costs (in 2014 dollars) for Phase 1 and Phase 2 upgrades of Lindsay WPCP (design and construction) are $12M and $40M respectively. The design for Phase 1 upgrades are funded in 2016 & 2017 capital budget and the future cost for Phase 1 construction and Phase 2 upgrades will be budgeted in 10-Year Capital Plan. It is expected that a multi-year phased design and construction program will be used to construct the proposed upgrades.

## Consultations:

Junior Accountant
Supervisor/Infrastructure, Design, Construction

**Department Head E-Mail:** jrojas@kawarthalakes.ca

**Department Head:** Juan Rojas, Director of Engineering and Corporate Assets

**Department File:** 2018-57-CP