



City of
Peterborough

To: **Members of the Committee of the Whole**

From: **Jeffrey Humble, Director of Planning and Development Services**

Meeting Date: **October 16, 2017**

Subject: **Report PLPD17-045
Peterborough Airport PCB Investigation Work Plan
Engineering Fee Increase for Phase 2**

Purpose

A report to recommend a contract increase related to sampling, testing and project management for Phase 2 of the Peterborough Airport PCB Sampling and Delineation program.

Recommendations

That Council approve the recommendations outlined in Report PLPD17-045 dated October 16, 2017, of the Director, Planning and Development Services, as follows:

- a) That the contract for consulting services with Cambium Inc., 52 Hunter Street East, Peterborough, Ontario K9H 1G5, be increased by \$35,000.00 from \$212,100.00 to \$247,100.00 to cover additional fees and expenses related to sampling, chemical analyses and project management for the Peterborough Airport PCB Sampling and Delineation Program Phase 2; and
- b) That staff report back on necessary further steps based on further review by the Ministry of the Environment and Climate Change (MOECC).

Budget and Financial Implications

The contract increase of \$35,000.00 can be accommodated within the Peterborough Airport PCB Sampling and Delineation Program Phase 2 capital budget. The balance in the increased contract amount after completion of the Airport PCB Sampling and Delineation Program Phase 2 will be zero. Additional budget allocations may be required after the Phase 2 is completed based on the Ministry of the Environment and Climate Change review and direction. Administration will report back to Council and seek direction at that time.

Background

In March of 2015 the Ministry of the Environment and Climate Change (MOECC) advised the City that the Ministry's Environmental Monitoring and Reporting Branch had completed a surface water and sediment sampling survey on and around the Peterborough Airport. The study identified some elevated levels of PCB's in certain sampling sites. It is assumed that the elevated levels may be related to historical landfill activities on the airport property.

The Ministry requested the City, as owner of the airport, to review the report and provide a response that sets out proposed actions and timetable to address the findings of the MOECC sampling report.

In order to respond to the Ministry's expectations, Council approved the recommendations of Report PLPD15-062, dated November 30, 2015, to establish a \$100,000 capital budget for the Peterborough Airport PCB Sampling Program Phase 1.

The Director of Corporate Services approved the use of Cambium Inc. based on their ongoing involvement with sub-surface issues related to the Airport Expansion program.

The City developed a work program and testing methodology for the work in consultation with Cambium Inc., which the Ministry deemed appropriate. The work plan developed by Cambium included surface water and sediment sampling, delineation of former landfill boundary and impacts, sampling of the existing fill stockpile, site survey and preparation of an erosion and sediment control plan.

The Phase 1 PCB Sampling Program found that PCB impacted sediment and surface water are present in concentrations greater than the applicable standards in several identified areas of the airport.

The primary areas of concern were identified as the southeast portion of the property, surrounding the crosswind taxiway and runway, and adjacent areas between the developed airport and the Otonabee River and the area immediately southwest of the

developed airport, north of the main runway. The Phase 1 program also identified the general limits of the former landfill waste site.

Based on the results of sampling and testing for Phase 1 of the program and the MOECC technical review and recommendations, it was necessary to conduct a Phase 2 surface water and sediment sampling program to determine potential impacts to receiving waters in proximity to the Airport. Report PLPD16-058, dated September 26, 2016, recommended that a new \$225,000 budget be established and that consulting services for the Phase 2 program be awarded to Cambium Inc. at a cost of \$202,200.00. The Cambium budget was increased by \$9,900.00 in April, 2017 in order to provide more stringent testing required by the MOECC and to prepare a soil management plan to allow excess fill from building construction at the Airport to be transported and stockpiled on Airport property. The increase was approved by the CAO in accordance with the Purchasing By-Law.

The scope of work for Phase 2 includes a surface water and sediment sampling program including three sampling events to be performed in the fall of 2016, spring and fall of 2017. The sampling program is being conducted to further delineate the former landfill boundary, laterally and vertically, as well as the associated plume and impacts down-gradient. At the request of the MOECC, the study also includes a geophysical survey to detect buried metal debris. Cambium Inc. is also providing an updated erosion and sediment control plan to satisfy MOECC requirements. Once the second phase of the sampling and testing program is completed and reported to the MOECC, a risk assessment study will be completed to identify solutions and waste management measures on site.

As part of the Phase 2 work program, Cambium submitted a report regarding delineation of the former landfill site with the following conclusions:

- The soil within the area noted by the yellow dashed line on the following Exhibit can be confidently interpreted as originating from historical landfill operations;
- The southeast arm of the former grassed runway also exhibited impacted soils, which may be from past landfilling operations and/or impacted fill materials;
- Soil in the south berm originated from fill material imported during the construction of the Airport, particularly the crosswind runway and taxiway areas; boreholes in and around the berm contain soil that exceeds standards for heavy metals, inorganics and PCB's.

Recommendations of the report include sampling of the parameters exhibiting exceedances during subsequent surface water and sediment sampling events and completion of the risk assessment based on the results of the Phase 1 and 2 surface water and sediment assessments.

The Phase 1 and 2 Landfill Delineation Program identifies the areas on Airport property associated with contaminated soil and was in accordance with the Exhibit A attached to Report PLPD17-045.

The Director of Corporate Services approved a transfer of \$35,000.00 from the Commercial General Aviation Lot Preparation capital budget to the Airport PCB Sampling and Delineation Program Phase 2 capital budget, increasing the budget from \$225,000.00 to \$260,000.00.

The contract increase with Cambium is required as a result of additional sediment and surface water sampling, installation of groundwater testing piezometers and additional scope for the risk assessment to satisfy the Ministry of Environment and Climate Change requirements. At the conclusion of Phase 2 PCB Sampling and Delineation Program, the Risk Assessment and Soil Management Plan will be used to provide a future report with results and recommendations.

Summary

The recommendation to increase the contract with Cambium by \$35,000.00 for the Peterborough Airport PCB Sampling and Delineation Program Phase 2 is essential to address the Ministry of Environment and Climate Change requirements and move forward with a solution to the management of historical landfill waste and activities on Airport property.

Submitted by,

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Attachments:

Exhibit A – Former Landfill Delineation Drilling Report