



City of
Peterborough

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

From: **Malcolm Hunt, Director of Planning and Development Services**

Meeting Date: **September 26, 2016**

Subject: **Report PLPD16-058
Peterborough Airport PCB Investigation Work Plan:
Budget and Engineering Fee Increase for Phase 1 and
New Budget for Phase 2**

Purpose

A report to recommend an increase in the Phase 1 sampling budget, a contract increase related to Phase 1 sampling, testing and project management, and to establish a budget for Phase 2 of the PCB Sampling and Delineation program.

Recommendations

That Council approve the recommendations outlined in Report PLPD16-058 dated September 26, 2016, of the Director, Planning and Development Services, as follows:

- a) That the Phase 1 PCB Sampling and Landfill Delineation budget at the Peterborough Airport be increased by \$25,000 from \$100,000 to \$125,000 and that the \$25,000 be transferred from the Capital Levy Reserve;
- b) That the contract for consulting services with Cambium Inc., 52 Hunter Street East, Peterborough, Ontario K9H 1G5, be increased from \$100,000.00 to \$125,000.00 to cover additional fees and expenses related to sampling, chemical analyses and project management for the Peterborough Airport PCB Investigation Work Plan, Phase 1;
- c) That a new \$225,000.00 capital budget be established and funded from the Capital Levy Reserve Fund for the Peterborough Airport PCB Sampling Program Phase 2;

- d) That consulting services for Peterborough Airport PCB Sampling Program Phase 2 be awarded to Cambium Inc., 52 Hunter Street East, Peterborough, Ontario K9H 1G5 at a cost of \$202,200.00 plus \$26,286.00 HST for a total cost of \$228,486.00.

Budget and Financial Implications

Funds are available in the Capital Levy Reserve Fund to transfer \$25,000.00 to the PCB Investigation Work Plan Phase 1 and to fund a new \$225,000.00 budget for the PCB Investigation Work Plan Phase 2. The balance in the Capital Levy Reserve after this transfer would be \$500,000.

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 following recommendations of Report PLPD15-062 dated November 30, 2015:

- a) That a \$100,000 capital budget be established for the Peterborough Airport PCB Sampling Program; and
- b) That the new capital project be funded by a transfer of \$100,000 from the Former Harper Road Landfill ECA capital project. (2012 capital budget reference 5-9.07)

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.

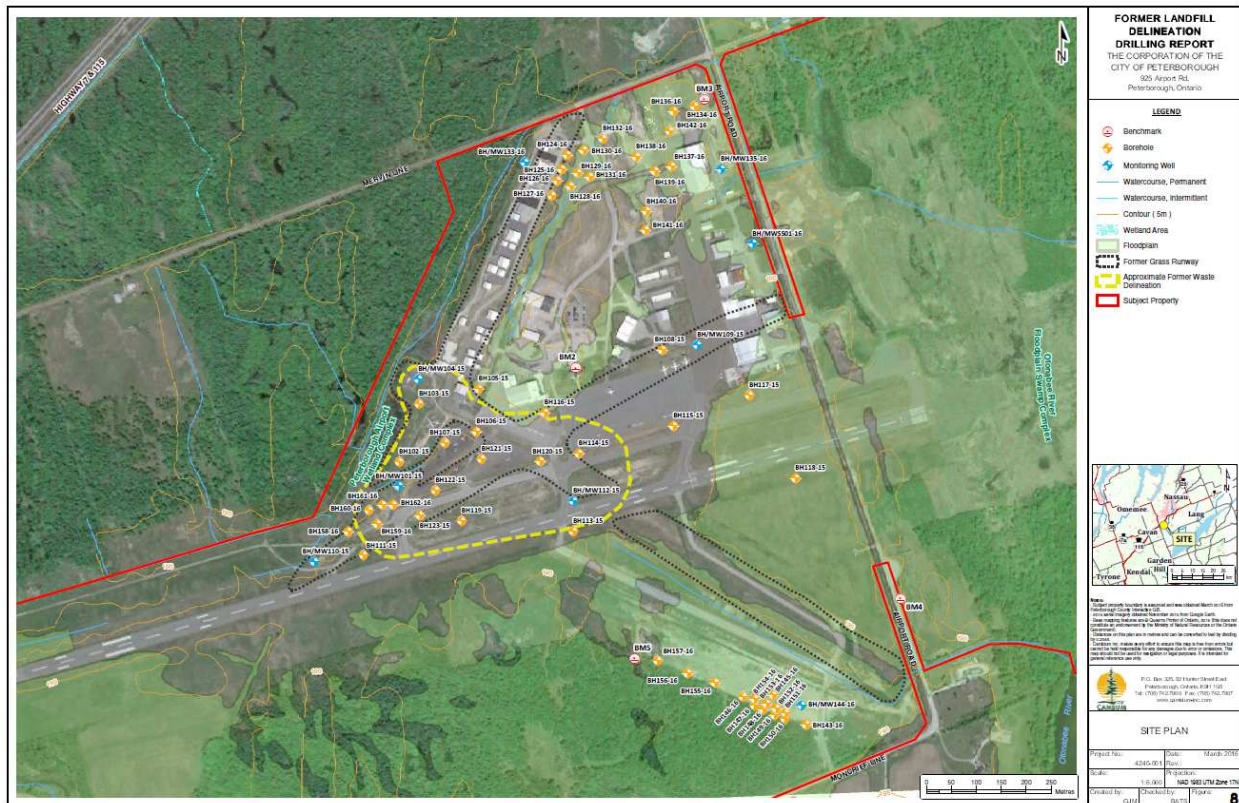
The Phase 1 delineation program identified the need for further sampling in order to verify preliminary findings. An increase of \$25,000.00 to the approved budget and contract with Cambium is required as a result of specialized testing of PCB's on all surface water samples, plus surface water and sediment sampling for additional locations including existing fill stockpiles and historical areas of landfill waste. This will bring the Phase 1 Sampling and Delineation program to a conclusion.

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 have been identified as follows:

- southeast portion of the property, surrounding the Crosswind Taxiway and Runway, and adjacent areas between the developed airport and the Otonabee River;
- the area immediately southwest of the developed airport, north of the main runway, which encompasses areas that drain into both the Peterborough Airport Wetland Complex to the west and south through manmade drainage features into the Cavan Creek Outlet Swamp and the Otonabee River via Cavan Creek.

The Phase 1 Landfill Delineation Program also identified the former landfill waste in accordance with the following Exhibit:



Based on the results of sampling and testing for Phase 1 of the program, it is necessary for Cambium Inc. to conduct a Phase 2 surface water and sediment sampling program to determine potential impacts to receiving waters in proximity to the Airport; three sampling events will be performed in the fall of 2016, spring and fall of 2017.

A soil and groundwater sampling program will be conducted to further delineate the former landfill boundary, laterally and vertically, as well as the associated plume and impacts down-gradient. Cambium Inc. will also provide 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 is proposed to identify solutions and waste management measures on site. The \$225,000.00 budget for this phase of the work allows for some additional sampling should the need arise.

Summary

The recommendations to increase by \$25,000.00 the Phase 1 PCB sampling and delineation program and establish a new budget of \$225,000.00 for a second phase of the program are 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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