



The Regional
Municipality
of Durham

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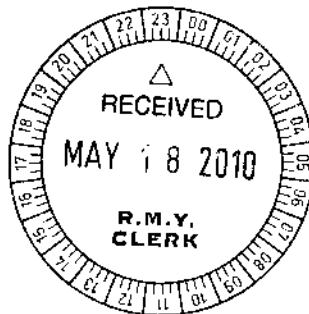
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Pat M. Madill, A.M.C.T., CMM III
Regional Clerk

May 13, 2010

Mr. Denis Kelly,
Regional Clerk
The Regional Municipality of York
17250 Yonge Street
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REGIONAL YORK
CLERK'S OFFICE

FILE No. - *P43*

**RE: REPORT ON THE STAGE III SOLIDS CAPACITY EXPANSION AND
ENHANCED PHOSPHOROUS REMOVAL UPGRADES AT THE
YORK-DURHAM DUFFIN CREEK WATER POLLUTION CONTROL
PLANT, IN THE CITY OF PICKERING (2010-W-49)
(Our File No.: 011)**

Please be advised the Works Committee of Regional Council considered the above matter and at a meeting held on May 12, 2010 Council adopted the following recommendations of the Committee:

- "a) THAT Report No. 2010-W-49 of the Commissioner of Works be received for information; and
- b) THAT a copy of Report No. 2010-W-49 of the Commissioner of Works be forwarded to the Regional Municipality of York."

As directed, please find enclosed a copy of Report No. 2010-W-49 of the Commissioner of Works.

P.M. Madill, AMCT, CMM III
Regional Clerk

PMM/cb

Encl.

c: C. Curtis, Commissioner of Works, Region of Durham





The Regional Municipality of Durham
To: The Works Committee
From: Commissioner of Works
Report: 2010-W-49
Date: April 28, 2010

SUBJECT:

Report on the Stage III Solids Capacity Expansion and Enhanced Phosphorous Removal Upgrades at the York-Durham Duffin Creek Water Pollution Control Plant, in the City of Pickering

RECOMMENDATIONS:

THAT the Works Committee recommends to Regional Council that:

- a) This report be received for information; and
 - b) A copy of this report be forwarded to the Regional Municipality of York.
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REPORT:

1. PURPOSE

The purpose of this report is to provide an update on the status of the Stage III projects at the Duffin Creek Water Pollution Control Plant (WPCP) and the Regional Municipality of Durham's (Durham Region) financial requirements as additional contracts are awarded.

2. BACKGROUND

Construction to provide additional plant capacity at the York-Durham Duffin Creek Water Pollution Control Plant (WPCP) commenced in 2007. The additional treatment facilities are proposed to increase the plant capacity from 420 ML/d to 630 ML/d. Previous Works Committee reports sought approvals for pre-design, detailed design, construction administration activities, and construction contracts for previously issued construction contracts for the solids capacity expansion. Durham Regional staff committed to reporting back to the committee regarding Durham's financial requirements and project status as additional contracts are awarded.

3. **PROJECT AND CONTRACT STATUS**

All construction and pre-purchased contracts have been issued by the Regional Municipality of York (York). York has entered into all contracts with suppliers/agencies. Durham will be invoiced by York for its share of all applicable solids components contracts, pre-purchase contracts and enhanced phosphorous removal construction contracts.

The following table defines the contracts issued by York as it pertains to this report:

York Region Contract Number	Contract (or Pre-purchase) Title	Successful Bidder	Phase of Work
T-08-59	Dewatering and Incineration Facilities	Kenaidan Construction Ltd.	Solids Capacity Expansion
T-09-16	Enhanced Phosphorous Removal Upgrades	North American Construction Ltd.	Enhanced Phosphorous Removal
P-09-06	Engineering, supply, fabrication, delivery, supervision of installation, commissioning and warranty of On-line phosphorous analyzers	Cancoppas Ltd.	Enhanced Phosphorous Removal

The York-Durham Sewerage System (YDSS) Management Committee approved the following funding splits for the Stage III Expansion in its February 4, 2005 meeting based on capacity utilization.

Project Summary	Project Splits	
	York Region	Durham Region
Stage III – Solids Capacity Expansion Construction	62%	38%
Enhanced Phosphorous Removal Upgrades	81%	19%

Subsequent to the award of the above contracts, York and Durham have worked together in a successful proposal to secure a grant under the Building Canada Fund for \$93,333,334. Durham's share of the grant is \$33,453,000, broken down as follows:

Building Canada Fund Grant

Stage III Solids	\$31,552,000
Phosphorous Removal	<u>1,901,000</u>

Total **\$33,453,000**

4. FINANCING

Based on the above funding splits, Durham's share of costs for the works is presented below.

4.1 Contracts

Project Description	Total Construction Cost	York Region Construction Cost	Durham Region Construction Cost
Stage III – Solids Capacity Expansion Construction Contract No.: T-08-59	\$119,276,063*	\$73,951,159*	\$45,324,904*
Enhanced Phosphorous Removal Upgrades Construction Contract No. 2: T-09-16	\$8,051,710*	\$6,521,885*	\$1,529,825*

* (before applicable taxes)

Durham's share of costs for these contracts will be financed from funds available in the approved in the 2010 Sanitary Sewer Capital Budget as follows:

Item No.52, Stage III Solids Capacity Construction (Program No. Y0502) \$45,324,904

Item No. 53, Enhanced Phosphorous Removal Upgrades (Program No. Y0801) \$1,529,825

4.2 Pre-purchase Contract

Project Description	Total Cost	York Region Construction Cost	Durham Region Construction Cost
Enhanced Phosphorous Removal Upgrades Construction Contract No. 1: P-09-06	\$3,258,943*	\$2,639,744*	\$619,199*

* (before applicable taxes)

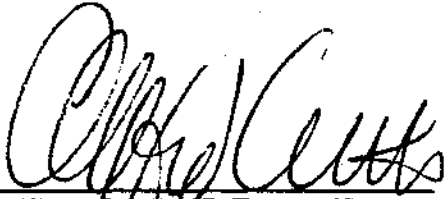
Durham's share for the pre-purchase and anticipated construction costs associated with the enhanced phosphorous removal contracts will be financed from funds available in the approved 2010 Sanitary Sewerage Capital Budget as follows:

Item No. 53, Enhanced Phosphorous Removal Upgrades (Program No. Y0801)	\$616,199
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5. CONCLUSION

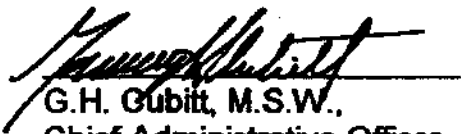
The Regional Municipality of Durham's share for the construction of the dewatering and incineration facilities for the Stage III Solids Capacity Expansion can be funded from the approved 2010 Sanitary Sewerage Capital Budget, Item No. 52: the Regional Municipality of Durham's share of Duffin Creek Water Pollution Control Plant expansion of dewatering and incineration works in the amount of \$45,324,904.

The Regional Municipality of Durham's share for the Enhanced Phosphorous Removal upgrades can be funded from the approved 2010 Sanitary Sewerage Capital Budget, Item No. 53: the Regional Municipality of Durham's share of Duffin Creek Water Pollution Control Plant Enhanced Phosphorous Removal upgrades works in the amount of \$2,149,024.



Clifford Curtis, P.Eng., MBA,
Commissioner of Works

Recommended for Presentation to Committee



G.H. Gubitt, M.S.W.,
Chief Administrative Officer

PO2/rw/dh/ms