

If this information is required in accessible format, please contact The Regional Municipality of Durham at 1-800-372-1102 ext. 3560.



April 30, 2015

Mary Hennessy, Director,  
Environmental Approvals Branch  
Ministry of the Environment  
2 St. Clair Avenue West, Floor 12A  
Toronto, ON M4V1L5

and

Dolly Goyette, Director  
Central Region  
Ministry of the Environment  
5775 Yonge Street, Floor 8  
North York, ON M2M 4J1

Dear Ms. Hennessy and Ms. Goyette:

**RE: Durham York Energy Centre  
Submission of the 2014 Annual Groundwater and  
Surface Water Monitoring Reports  
(Environmental Assessment Condition 20)  
MOECC File #: EA-08-02**

In accordance with Condition 20.8 of the Environmental Assessment (EA), the Regional Municipality of Durham and the Regional Municipality of York (Regions) are pleased to submit the 2014 Annual Groundwater and Surface Water Monitoring Reports. The 2014 Annual Groundwater and Surface Water Monitoring Reports detail groundwater and surface water monitoring activities which were undertaken during the facility construction period at the Durham York Energy Centre in 2014.

The Monitoring and Screening Checklists for the 2014 Annual Groundwater and Surface Water Monitoring Reports, as required by the Ministry of the Environment and Climate Change's (MOECC) Technical Guidance Document (MOE, 2010), are included in this submission.

Separate consultants have been retained to prepare the 2014 Annual Groundwater and Surface Water Monitoring Reports. As Covanta is responsible for facility construction and managing potential impacts to the site, they have retained Golder Associates Ltd. (Golder) to prepare the 2014 Annual Surface Water Report to ensure that erosion and sediment control measures during construction are effective, with the goal of mitigating impacts to Tooley Creek. Surface water activities began in May 2012 and have been carried out by Golder in accordance with section 3.0 of the approved Groundwater and Surface Water Monitoring Plan (Stantec, 2011) and address surface water and erosion and sediment control commitments made within the EA. The surface water quality sampling results throughout the monitoring program indicate that there are no significant concerns with respect to facility construction on surface water conditions in the receiving swale (CN Rail ditch) and further downstream in Tooley Creek.

The 2014 Annual Surface Water Report noted that one spill was reported to the MOECC Spills Action Centre. The spill occurred during transfer of boil out water to a frac tank located under the air cooled condenser and contained low concentrations of Chem Treat cleaning agents with pH ranges from 12 to 14. The spill was contained and was not in close proximity to any catch basins. The east stormwater management pond was tested for pH on several occasions during the week of spill.

The Regions have retained WSP, formerly Genivar, to prepare the 2014 Annual Groundwater Monitoring Report to evaluate water quality conditions in accordance with section 2.0 of the approved Groundwater and Surface Water Monitoring Plan (Stantec, 2011). Groundwater monitoring commenced in early 2012 prior to construction to determine background water quality. The groundwater quality data indicate that concentrations satisfy the Ontario Drinking Water Quality Standards, Objectives, and Guidelines (ODWQS) for the tested parameters. Groundwater quality at each monitoring location is influenced by various factors including the soil type that the monitor is screened in, and historical land uses at the site. Further, there is no evidence that facility construction activities have negatively influenced the shallow groundwater quality.

The 2014 Annual Groundwater and Surface Water Monitoring Reports submission will be forwarded to the Energy from Waste Advisory Committee for information in accordance with EA Condition 8.8 (b).

In accordance with EA Condition 20.3 (d), the Regions would like to request a meeting with the Regional Director to discuss the results of the 2014 Annual Groundwater and Surface Water Monitoring Reports as well as the sampling program changes moving from the construction to the operations phase.

We trust that these reports meet the MOECC's expectation as outlined in Condition 20 of the EA Notice of Approval. If you require additional information, please contact the undersigned.

Sincerely,



Mirka Januszkiewicz, P.Eng.  
Director, Waste Management Services

The Regional Municipality of Durham  
905.668.7711 ext. 3464  
Mirka.Januszkiewicz@durham.ca



Laura McDowell, P.Eng.  
Director, Environmental Promotion  
and Protection

The Regional Municipality of York  
905.830.4444 ext. 75077  
Laura.McDowell@york.ca

LW/ms

- c. S. Paul, Director, Approval Services, MOECC
- C. Hyde, Manager, York Durham District Office, MOECC
- S. Thomas, Issues Project Coordinator, MOECC
- P. Dunn, Senior Environmental Officer, York Durham District Office, MOECC
- G. Battarino, Project Officer, Project Coordination, MOECC
- A. Huxter, Environmental Specialist, Covanta  
Energy from Waste Advisory Committee (EFWAC)
- D. Kelly, Regional Clerk, The Regional Municipality of York
- D. Bowen, Regional Clerk, The Regional Municipality of Durham

Encl.