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April 28, 2014  
File: 160950528

**Attention: Greg Borchuk, P.Eng.  
Project Manager, EFW  
Waste Management Services**

The Region of Durham  
605 Rossland Rd.,  
Whitby, ON L1N 6A3

Dear Mr. Borchuk,

**Reference: Quarterly Ambient Air Quality Monitoring Reports for the Durham York Energy Centre**

Please find attached with this letter revised Q2 and Q3 2013 quarterly reports dated April 14, 2014. The November 29, 2013 versions of these quarterly reports were submitted to the Ministry of Environment (MOE) for review and comment on December 9, 2013.

The Ministry of Environment performs routine audits of air quality monitoring conducted by emitters as noted in the MOE Ambient Monitoring Operations Manual. This April 2014 report version includes the following primary revisions based on, or as a result of, the comments and recommendations received from the MOE during their normal audit process:

- The November 29, 2014 version of the report expressed concentration results following the convention specified by the US EPA in 40 CFR Part 50 Appendix B, which is a reference method provided in the MOE Operations Manual. Following their review, MOE has requested a different reporting basis be utilized in all the reports for this project (concentration results to be expressed in actual rather than normal cubic metres). Both methods are widely used and accepted in various jurisdictions. Revising the reporting basis has the result of altering the reported concentration values as they are based on cubic metres of air at the temperature at the time of the measurement (actual conditions), rather than expressing concentrations based on an equivalent volume of air at a single set temperature (normal conditions).
- Revising a calibrator constant used in the flow calculations for non-continuous monitors to address actual versus normal conditions.
- Reporting PAHs in nanograms per cubic metre (ng/m<sup>3</sup>) rather than micrograms per cubic metre (µg/m<sup>3</sup>).

The previous version of the reports provided 90<sup>th</sup> percentile concentrations for the various monitoring parameters. This information is not a mandatory MOE reporting requirement, and is not required for



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assessment of compliance with any applicable standard. Due to the already large volume of data presented in the report, and the potential for misinterpretation, this additional information has been removed

The updated Q2 and Q3 reports show all contaminant measurements to continue to be below their Ontario and HHRA criteria, with the exception of 3 measurements of benzo(a)pyrene (B(a)P), which were above the Ontario 24-hour ambient air quality criteria (AAQC) for B(a)P introduced in 2011, but well below the MOE Schedule 6 Upper Risk Threshold, the MOE O. Reg. 419 24-hour average guideline, and the HHRA health based standard. The measured B(a)P concentration levels at the stations are not unusual either with respect to levels measured during the EA monitoring (in 2008-2009) nor to current levels measured at other monitoring stations throughout Ontario. In the period 2010-2012, B(a)P levels exceeding the Ontario 24-hour AAQC were measured in all years and at all Ontario stations monitoring this contaminant with the exception of one station for a single year out of the three year period.

The MOE recommendations provided for the Q2 and Q3 reports will be included in all future quarterly and annual reports.

Regards,

**STANTEC CONSULTING LTD.**

**Original Signed by G. Crooks**

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