



**Stantec Consulting Ltd.**  
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February 8, 2018  
File: 160950528

**Attention: Mr. Christian Shelepek, Supervisor, Waste Management Services (Compliance)**

The Regional Municipality of Durham  
1835 Energy Drive  
Clarington, ON L1E 2R2

Dear Mr. Shelepek,

**Reference: Q4 2017 Ambient Air Quality Monitoring Report for the Durham York Energy Centre**

Please find attached with this letter the Q4 2017 quarterly report for the Durham York Energy Centre (DYEC).

A review of the Rundle Road Station in Q4 2017 determined the height of the meteorological tower to be 7.5 m, not 10 m as noted in prior reports. This height is now noted in the Q4 2017 report for the Rundle Road Station. The height of the meteorological tower at the Courtice WPCP Station of 20 m is unchanged. The heights of the meteorological towers are not used in analyzing the monitoring data; and therefore, this discrepancy in the reported height does not affect any monitoring data results or conclusions.

The quarterly reports for the DYEC monitoring are prepared to present monitoring data to the Ontario Ministry of the Environment and Climate Change (MOECC). The MOECC requires that several statistics, including maximum levels, be presented in these reports, but does not require 98<sup>th</sup> percentile values to be included in quarterly reports. Regional Council has requested that 98<sup>th</sup> percentile PM<sub>2.5</sub> data also be provided along with the quarterly reports, which is provided in Table 1 below. A comparison to the Canadian Ambient Air Quality Standard (CAAQS) for PM<sub>2.5</sub> requires averaging the 98<sup>th</sup> percentile daily average levels in each of three consecutive years.

Explicit comparison to the 24-hour PM<sub>2.5</sub> CAAQS requires annual data based on calendar year. With the completion of monitoring in 2017, three calendar years of monitoring data are now available for the periods 2014-2016 and 2015-2017 and are presented in Table 1 for comparison to the 24-hour PM<sub>2.5</sub> CAAQS. For both these time periods, both ambient monitoring stations measured levels below the 24-hour PM<sub>2.5</sub> CAAQS of 28 µg/m<sup>3</sup>.

Annual average PM<sub>2.5</sub> concentrations are provided in Table 2. An explicit comparison to the annual PM<sub>2.5</sub> CAAQS also requires annual data based on three consecutive calendar years, which are also now available for the 2014-2016 and 2015-2017 periods. Both ambient monitoring stations measured 3-year annual average concentrations below the annual PM<sub>2.5</sub> CAAQS of 10 µg/m<sup>3</sup> for both time periods.



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**Table 1 Summary of the 98<sup>th</sup> Percentile Daily Average PM<sub>2.5</sub> Concentrations (µg/m<sup>3</sup>) to Date**

Period	Courtice WPCP Station	Rundle Road Station
2014	22.3	21.1
2015	27.3	28.4
2016	21.6	32.9
2017	19.8	20.3
Three Year Average (2014 - 2016)	23.7	27.5
Three Year Average (2015 - 2017)	22.9	27.2

**Table 2 Summary of the Annual Average PM<sub>2.5</sub> Concentrations (µg/m<sup>3</sup>) to Date**

Period	Courtice WPCP Station	Rundle Road Station
2014	8.6	8.5
2015	7.7	9.5
2016	6.8	9.6
2017	6.4	6.3
Three Year Average (2014 - 2016)	7.7	9.2
Three Year Average (2015 - 2017)	7.0	8.5

Regards,

**STANTEC CONSULTING LTD.**

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