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August 9, 2017
File: 160950528

Attention: Ms. Tara Wilcox, Supervisor, Waste Management Services (Compliance)

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

Dear Ms. Wilcox,

Reference: Q2 2017 Ambient Air Quality Monitoring Report for the Durham York Energy Centre

Please find attached with this letter the Q2 2017 quarterly report for the Durham York Energy Centre (DYEC).

The quarterly reports for the DYEC monitoring are prepared to present monitoring data to the MOECC. The MOECC requires that several statistics, including maximum levels, be presented in these reports, but does not require 98th percentile values to be included in quarterly reports. Regional Council has requested that 98th percentile PM_{2.5} 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_{2.5} requires averaging the 98th percentile daily average levels in each of three consecutive years.

Explicit comparison to the 24-hour PM_{2.5} CAAQS requires annual data based on calendar year. With the completion of monitoring in 2016, three calendar years of monitoring data are available (2014-2016) and are presented in Table 1 for comparison to the 24-hour PM_{2.5} CAAQS. For this time period, both ambient monitoring stations measured levels were below the 24-hour PM_{2.5} CAAQS of 28 µg/m³. The 98th percentile concentrations for Q1/Q2 2017 are also presented in this table however these quarterly values should not be explicitly compared to the CAAQS.

Annual average PM_{2.5} concentrations are provided in Table 2. An explicit comparison to the annual PM_{2.5} CAAQS also requires annual data based on three consecutive calendar years, which are available. Both ambient monitoring stations measured 3-year annual average concentrations below the annual PM_{2.5} CAAQS of 10 µg/m³ for 2014 - 2016. The 6-month average concentrations for Q1/Q2 2017 are also presented in Table 2 however these quarterly values should not be explicitly compared to the annual CAAQS.



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Table 1 Summary of the 98th Percentile Daily Average PM_{2.5} Concentrations (µg/m³) to Date

Period	Courtyce WPCP Station	Rundle Road Station
2014	22.3	21.1
2015	27.3	28.4
2016	21.6	32.9
Three Year Average (2014 - 2016)	23.7	27.5
January - June 2017 ¹	16.9	23.2

Notes:

1. As only 6 months of data are presented, this data is not comparable to the CAAQs

Table 2 Summary of the Annual Average PM_{2.5} Concentrations (µg/m³) to Date

Period	Courtyce WPCP Station	Rundle Road Station
2014	8.6	8.5
2015	7.7	9.5
2016	6.8	9.6
Three Year Average (2014 - 2016)	7.7	9.2
January - June 2017 ¹	6.0	6.8

Notes:

1. As only 6 months of data are presented, this data is not comparable to the CAAQs

Regards,

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