

Stantec Consulting Ltd. 100-401 Wellington Street West, Toronto ON M5V 1E7

August 29, 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 - Crago Road Station

Please find attached with this letter the Q2 2017 quarterly report for the Durham York Energy Centre (DYEC) Crago Road Station. This quarterly report provides a summary of the measurements collected at this station during April to June 2017 (calendar Quarter 2 of 2017).

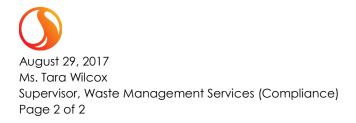
Regional Council has requested that 98th percentile PM_{2.5} data also be provided along with the quarterly reports, which is provided in Table 1 below. A comparison to the Canadian Ambient Air Quality Standard (CAAQS) for PM_{2.5} requires averaging the 98th percentile daily average levels in each of three consecutive calendar years. The values presented in Table 1 corresponds to the 98th percentile for 2015 and 2016, and the first 6-months of 2017. An additional 6 months of data will be required to provide an explicit comparison to the current CAAQS criteria of 28 µg/m³. To be statistically significant, a minimum of 2-years of data is required for an initial comparison, with 3-years of data required for explicit comparison. The first two calendar years of data presented in Table 1 are, however, a good initial indication of conformance to the CAAQS standard for PM_{2.5}. The data in Table 1 should be considered preliminary and is included to provide an initial indication of ambient PM_{2.5} level compliance with respect to the CAAQS until 3-calendar years of data have been collected.

Annual average PM_{2.5} concentrations are provided in Table 2. As with the 24-hour CAAQS for PM_{2.5}, an explicit comparison to the annual CAAQS for PM_{2.5} requires annual data based on three consecutive calendar years (with a minimum of 2-years of data required for an initial comparison and 3-years of data required for explicit comparison). The annual periods for 2015 and 2016 presented in Table 2 provide an initial indication of conformance to the annual PM_{2.5} CAAQS of 10 µg/m³ (until 3-calendar years of data have been collected).

Table 1Summary of the 98th Percentile Daily Average PM2.5 Concentrations
Measured to Date (µg/m3)

Period	Crago Road Monitoring Station
2015	22.7
2016	22.6
January – June 2017 (6 months of data)	19.0 ¹

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



Reference: Q2 2017 Ambient Air Quality Monitoring Report for the Durham York Energy Centre - Crago Road Station

Table 2Summary of the Annual Average PM2.5 Concentrations
Measured to Date (µg/m³)

Period	Crago Road Monitoring Station
2015	7.3
2016	6.6
January – June 2017 (6 months of data)	6.2 ¹

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

Please contact me should you wish to discuss this report.

Regards,

STANTEC CONSULTING LTD.

1

Gregory Crooks, M.Eng., P.Eng. Principal, Environmental Services Phone: (416) 598-7687 Fax: (416) 596-6680 gregory.crooks@stantec.com

c. Gio Anello, Region of Durham Lyndsay Waller, Region of Durham Luis Carvalho, Region of York Seth Dittman, Region of York C. Lim, K. Ireland, Stantec

\\cd1215-f01\work_group\01609\active\160950528\planning\report\final\2017\2017 q2 crago\let_160950528_2017_q2_crago_rd_final.docx