

# The Regional Municipality of Durham COUNCIL INFORMATION PACKAGE

## Friday, June 6, 2025

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There is no Miscellaneous Correspondence.

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## The Regional Municipality of Durham Information Report

From:	Commissioner of Works
Report:	#2025-INFO-48
Date:	June 6, 2025

## Subject:

Durham York Energy Centre 2024 Voluntary Source Test Update

#### **Recommendation:**

Receive for information

#### Report:

#### 1. Purpose

1.1 The purpose of this report is to provide an update on the 2024 Voluntary Source Test results at the Durham York Energy Centre (DYEC).

### 2. Background

2.1 As directed by Regional Council, the Owners are to perform an annual Voluntary Source Test in accordance with the procedures and schedules outlined in Schedule "E" of the Environmental Compliance Approval (ECA). The Voluntary Source Test measures the rate of emission of the measurable contaminants from the stack.

### 3. Voluntary Source Test Report

3.1 The Voluntary Source Test was conducted between December 2, to December 5, 2024, for all test contaminants on Boiler #1 and Boiler #2.

- 3.2 The results summary of the Voluntary Source Test demonstrated that all emissions were within the limits detailed in the ECA (Attachment #1).
- 3.3 The full Voluntary Source Test Report was sent to the Ministry of Environment, Conservation and Parks (MECP) and subsequently posted to the project website.
- 3.4 The DYEC emissions dispersion was modeled utilizing the Voluntary Source Test data and the MECP approved CALPUFF model. The results of the contaminants concentrations at the maximum point of impingement were then compared to the limits within the Ontario Regulation 419/05 Air Pollution Local Air Quality. Ontario Regulation 419/05 Air Pollution Local Air Quality limits are set to be protective of human health and the environment.
- 3.5 All the calculated impingement concentrations were well below the regulatory limits.

## 4. Owners' Consultant Reviews

4.1 Stantec, the Source Test peer reviewer, provided their Final Report (Attachment #2) to the Region on May 22, 2025. Stantec's report concluded:

"Based on a review of the Source Testing Report, and the on-site observations, there are no concerns about the validity of the source testing data reported by ATG (Alliance Technical Group). Stantec is satisfied that the conduct of the source testing, the analytical analysis, and the analytical calculations were carried out in a professional manner and followed all relevant guidelines, protocols, and best practices."

- 4.2 With respect to air emissions modelling, Stantec's report noted some minor discrepancies between the model input files and the source testing data. However, Stantec noted they were "satisfied that the modelling was completed in accordance with the facility's ECA (Condition 6.1 and Schedule B), as well as O. Reg. 419/05." And noted that "these revisions, however, are not expected to change the compliance status of the facility, as the facility's POI values are well below the specified MECP standards, based on the provided analysis."
- 4.3 HDR personnel were also present during the Source Tests. In their report (Attachment #3) HDR indicated that:

"HDR has completed our review of the results of the air emissions testing performed during the DYEC Fall 2024 Voluntary Test. Representatives from HDR were present at the DYEC on December 3<sup>rd</sup> through December 4<sup>th</sup>, 2024, to observe the sampling procedures and facility operations during emissions testing. HDR observed Alliance following the approved stack sampling procedures and test methods. HDR also observed Reworld's plant personnel operating the DYEC under normal operating conditions and in accordance with acceptable industry operating standards. During the testing period there were some minor operational upsets with Unit 2 that were a result of the plugging and damage of the feedchute. As a result, only two D/F test runs were completed for Unit 2. The feedchute is scheduled to be replaced during the March 2025 outage. Based on the results summarized in Alliance's test report (dated March 3, 2025), the air emission results of the Fall 2024 Voluntary Test demonstrated that the DYEC operated below the ECA's Schedule "C" limits."

## 5. Continued Demonstrated Performance

- 5.1 DYEC demonstrates consistent performance with the appropriate controls and monitoring in place which provide a level of safety and protection to human health and the environment.
- 5.2 The results of testing completed from 2020-2024 are presented in Attachment#4. The data presented indicates that the DYEC has consistently demonstratedthat it can safely and effectively operate within the ECA Schedule "C" limits.
- 5.3 A table demonstrating comparison of the latest source test results against the ECA limits and A-7 guideline is presented in Attachment #5. It's worth noting that DYEC consistently operates and performs below regulatory limits.
- 5.4 The chart in Figure 1 below provides a visual of how far below the regulatory limits each contaminant average falls. The dotted line represents the limits, and the arrows represent per cent average below the limits.



Figure 1: Average Result expressed as a percentage below the regulatory limits.

### 6. Conclusion

- 6.1 The Owners' technical consultants and peer reviewers have confirmed that the Voluntary Source Test was conducted in accordance with the Ministry of the Environment, Conservation and Parks' guidelines.
- 6.2 All results of the Voluntary Source Test were below the concentration limits prescribed in Schedule C of the Environmental Compliance Approval.
- 6.3 Using CALPUFF dispersion modelling techniques, the predicted maximum point of impingement concentrations, based on the average test results for both boilers, show Durham York Energy Centre to be operating well below all current standards in Regulation 419/05 under the Environmental Protection Act and other Ministry of the Environment, Conservation and Parks criteria including guidelines and upper risk thresholds.

### 7. Relationship to Strategic Plan

- 7.1 This report aligns with and/or addresses the following Strategic Direction(s) and Pathway(s) in Durham Region's 2025-2035 Strategic Plan:
  - a. Connected and Vibrant Communities
    - C1. Align Regional infrastructure and asset management with projected growth, climate impacts, and community needs.

- C5. Improve digital connectivity and multi-channel access to information, resources, and service navigation.
- b. Environmental Sustainability and Climate Action
  - E1. Reduce corporate greenhouse gas emissions to meet established targets.
  - E4. Lead the transition to sustainable living through waste management, diversion, and the circular economy.
  - E5. Respect the natural environment, including greenspaces, waterways, and agricultural lands.

#### 8. Attachments

Attachment #1:	Voluntary Source Test Executive Summary
Attachment #2:	Stantec 2024 Voluntary Source Test Final Report
Attachment #3:	HDR Inc. 2024 Voluntary Source Test Technical Memorandum
Attachment #4:	Source Test Results 2020-2024
Attachment #5:	Comparison Table: 2024 Voluntary Source Test Results Compared to ECA limits, Ontario A-7 Guideline, and the European Union (EU)

Respectfully submitted,

#### Original signed by:

Ramesh Jagannathan, MBA, M.Eng., P.Eng., PTOE Commissioner of Works



### **EXECUTIVE SUMMARY**

Alliance Technical Group (ATG), formerly ORTECH Consulting Inc., completed a voluntary compliance emission testing program at the Durham York Energy Centre (DYEC) located in Courtice, Ontario between December 2 to December 5, 2024. The voluntary emission testing program was performed at the request of the Regions of Durham and York. The current test program is the ninth voluntary test program conducted at the facility.

Ontario Ministry of the Environment, Conservation and Parks (MECP) Amended Environmental Compliance Approval (ECA) No. 7306-8FDKNX Section 7(1) states that "the owner shall perform annual source testing, in accordance with the procedures and schedule outlined in the attached Schedule E, to determine the rates of emissions of the test contaminants from the stack. The program shall be conducted not later than six months after the commencement date of operation of the facility/equipment and subsequent source testing programs shall be conducted once every calendar year thereafter". A list of the test programs conducted to date is provided below:

Test Program	Test Date	Report No.
2015 Compliance	September/October 2015	21546
2016 Voluntary	May 2016	21656
2016 Compliance	October/November 2016	21698
2017 Voluntary	May 2017	21754
2017 Compliance	October 2017	21800
2018 Voluntary	May/June 2018	21840
2018 Compliance	September 2018	21880
2019 Voluntary	June 2019	21936
2019 Compliance	September 2019	21960
2020 Voluntary	June 2020	22001
2020 Compliance	November 2020	22050
2021 Voluntary	June 2021	22081
2021 Compliance	November/December 2021	22085
2022 Voluntary	May 2022	22158
2022 Compliance	November/December 2022	22160
2023 Voluntary	April 2023	22230
2023 Compliance	September/October 2023	22235
2024 Compliance	March 2024	22327
2024 Voluntary	December 2024	AST-2024-4547

Source testing was performed on the Baghouse (BH) Outlet of Boiler No. 1 and BH Outlet of Boiler No. 2 for the test contaminants listed in Schedule D of the ECA.



Emission tests were completed for particulate matter, metals, semi-volatile organic compounds, acid gases, volatile organic compounds, aldehydes and combustion gases at the BH Outlet of each Boiler. Emission tests were also completed for total hydrocarbons at the Quench Inlet of each Boiler. The contaminant groups included in the emission test program and the reference test methods used are summarized below:

Test Groups	Reference Method
Particulate and Metals	US EPA Method 29
PM <sub>2.5</sub> /PM <sub>10</sub> and Condensable Particulate	US EPA Methods 201A and 202
Semi-Volatile Organic Compounds	Environment Canada Method EPS 1/RM/2
Volatile Organic Compounds	US EPA SW-846 Method 0030 (SLO VOST modification)
Aldehydes	NCASI Method ISS/FP-A105.01
Halides and Ammonia	US EPA Method 26A
Combustion Gases:	
Oxygen and Carbon Dioxide	Facility CEM
Carbon Monoxide	Facility CEM
Sulphur Dioxide	Facility CEM
Nitrogen Oxides	Facility CEM
Total Hydrocarbons	ATG per US EPA Method 25A

Sampling, analysis and reporting were conducted following the procedures detailed in the Pre-Test Plan with the following exception. During the Voluntary Source Test conducted from December 2 to December 5, 2024, the facility encountered unforeseen operational challenges with Boiler No. 2 which impacted the testing process. While two test runs were completed for Semi-Volatile Organic Compounds (SVOC) on Boiler No. 2, an operational issue arose during the third test. The third test was rescheduled for the second week of December, but the issue remained unresolved, forcing the facility to take a feed stop on Boiler No. 2 on December 10 to carry out necessary repairs. Despite the facility's efforts to resolve the issue quickly, the malfunction made it impossible to proceed with the third SVOC test on Boiler No. 2. The SVOC results for Boiler No. 1 are from the triplicate tests conducted as per the Pre-Test Plan.

Schedule C of ECA No. 7306-8FDKNX lists in-stack limits for the emissions of various compounds. Instack emissions limits are given for particulate matter, mercury, cadmium, lead, dioxins and furans and organic matter for comparison with the results from compliance source testing. In-stack emission limits are also given for hydrochloric acid, sulphur dioxide, nitrogen oxides and carbon monoxide calculated as the rolling arithmetic average of data measured by a continuous emission monitoring system (CEMS).



Since relative accuracy and system bias testing was conducted in August 2024, the data recorded by the DYEC CEMS was used to assess against the in-stack emissions limits detailed in Schedule C of the ECA for hydrochloric acid, sulphur dioxide, nitrogen oxides and carbon monoxide. Note the DYEC CEMS data for the days when isokinetic testing was performed at each unit (December 2 to December 5, 2024) was used to determine the minimum, average and maximum concentrations of the combustion gases listed in the ECA. Concentration data measured by ATG on December 3 and December 4, 2024, was used to assess the total hydrocarbons (organic matter) in-stack emissions limit detailed in Schedule C of the ECA.

Consistent with the approach commonly required by the MECP for compliance emission testing programs, the following results are conservative in the sense that when the analytical result is reported to be below the detection limit, the full detection limit is used to calculate emission data and is shown by a "<" symbol. Also, when one or both Boiler results are reported to be below the detection limit, the detection limit the total emission rate for the Main Stack.

The MECP "Summary of Standards and Guidelines to Support Ontario Regulation 419/05 – Air Pollution – Local Air Quality", dated April 2012, provides an updated framework for calculating dioxin and furan toxicity equivalent concentrations which includes emission data for 12 dioxin-like PCBs. This document was replaced by "Air Contaminants Benchmarks List: standards, guidelines and screening levels for assessing point of impingement concentrations of air contaminants", with the most recent version published on November 5, 2023, however the dioxin and furan toxicity equivalent calculation methodology remains the same. The dioxins, furans and dioxin-like PCBs toxicity equivalent emission data was also calculated using half the detection limit for those compounds not detected. The half detection limit data was used to assess against the dispersion modelling Point of Impingement limit. The toxicity equivalent concentrations calculated using the full detection limit, for those compounds less than the reportable detection limit, were used to assess against the in-stack limit detailed in Schedule C of the ECA.



The average results for the tests conducted at Boiler No. 1, along with the respective in-stack emission limits, are summarized in the following table:

Parameter	Test No. 1	Test No. 2	Test No. 3	Average	In-Stack Limit
Total Power Output (MWh/day)*	-	-	-	374	-
Average Combustion Zone Temp. (°C)*	-	-	-	1295	-
Steam (tonnes/day)*	-	-	-	795	-
MSW Combusted (tonnes/day)*	-	-	-	202	-
NO <sub>x</sub> Reagent Injection Rate (liters/day)*	-	-	-	571	-
Carbon Injection (kg/day)*	-	-	-	125	-
Lime Injection (kg/day)*	-	-	-	3320	-
Filterable Particulate (mg/Rm <sup>3</sup> ) <sup>(1)</sup>	<0.34	<0.45	<0.32	<0.37	9
PM <sub>10</sub> with Condensable (mg/Rm <sup>3</sup> ) <sup>(1)</sup>	<6.60	<5.31	<5.02	<5.65	-
PM <sub>2.5</sub> with Condensable (mg/Rm <sup>3</sup> ) <sup>(1)</sup>	<6.32	<5.04	<4.74	<5.37	-
Hydrogen Fluoride (mg/Rm <sup>3</sup> ) <sup>(1)</sup>	<0.11	<0.10	<0.10	<0.10	-
Ammonia (mg/Rm <sup>3</sup> ) <sup>(1)</sup>	0.62	0.59	0.58	0.60	-
Cadmium (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	0.051	3.17	<0.022	<1.08	7
Lead (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	0.26	0.49	0.11	0.29	50
Mercury (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	<0.13	<0.14	<0.13	<0.13	15
Antimony (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	<0.045	<0.045	<0.045	<0.045	-
Arsenic (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	<0.11	<0.11	<0.11	<0.11	-
Barium (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	11.0	11.3	11.1	11.1	-
Beryllium (μg/Rm³) <sup>(1)</sup>	<0.045	<0.045	<0.045	<0.045	-
Chromium (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	0.78	0.92	0.69	0.80	-
Cobalt (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	0.040	<0.045	<0.045	<0.043	-
Copper (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	1.45	1.14	1.00	1.20	-
Molybdenum (µg/Rm³) <sup>(1)</sup>	4.12	4.05	4.03	4.07	-
Nickel (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	0.47	1.41	0.39	0.75	-
Selenium (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	<0.22	<0.23	<0.22	<0.22	-
Silver (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	<0.045	<0.045	<0.045	<0.045	-
Thallium (μg/Rm <sup>3</sup> ) <sup>(1)</sup>	<0.045	<0.045	<0.045	<0.045	-
Vanadium (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	<0.11	<0.11	<0.11	<0.11	-
Zinc (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	11.8	12.0	10.5	11.4	-
Dioxins and Furans (pg TEQ/Rm <sup>3</sup> ) <sup>(3)</sup>	<2.67	<2.26	<1.82	<2.25	60
Total Chlorobenzenes (ng/Rm <sup>3</sup> ) <sup>(1)</sup>	<490	<429	<333	<417	-
Total Chlorophenols (ng/Rm <sup>3</sup> ) <sup>(1)</sup>	<465	<460	<474	<466	-
Total PAHs (ng/Rm <sup>3</sup> ) <sup>(1)</sup>	<157	<608	<196	<320	-
VOCs (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	<45.9	<23.8	<28.2	<32.6	-
Aldehydes (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	<393	<517	<589	<499	-
Total VOCs (µg/Rm <sup>3</sup> ) <sup>(1) (4)</sup>	<439	<541	<617	<532	-
Quench Inlet Organic Matter (THC) (ppm, dry) <sup>(2)</sup>	3.1	1.0	0.6	1.6	50

\* based on process data provided by Covanta

- (1) dry at 25°C and 1 atmosphere, adjusted to 11% oxygen by volume
- (2) dry basis as equivalent methane (average of each 60 minute test with data recorded in 1-minute intervals)
- (3) calculated using the NATO/CCMS (1989) toxicity equivalence factors and the full detection limit for those isomers below the analytical detection limit, dry at 25°C and 1 atmosphere, adjusted to 11% oxygen by volume
- (4) Includes all components from the volatile organic compounds test list in the ECA (i.e. Volatile Organic Sampling Train and Aldehyde Sampling train components).



The average results for the tests conducted at Boiler No. 2, along with the respective in-stack emission limits, are summarized in the following table:

Parameter	Test No. 1	Test No. 2	Test No. 3	Average	In-Stack Limit
Total Power Output (MWh/day)*	-	-	-	374	-
Average Combustion Zone Temp. (°C)*	-	-	-	1199	-
Steam (tonnes/day)*	-	-	-	793	-
MSW Combusted (tonnes/day)*	-	-	-	210	-
NO <sub>x</sub> Reagent Injection Rate (liters/day)*	-	-	-	562	-
Carbon Injection (kg/day)*	-	-	-	124	-
Lime Injection (kg/day)*	-	-	-	3347	-
Filterable Particulate (mg/Rm <sup>3</sup> ) <sup>(1)</sup>	<0.39	<0.47	<0.32	<0.39	9
PM <sub>10</sub> with Condensable (mg/Rm <sup>3</sup> ) <sup>(1)</sup>	<4.99	<4.25	<3.70	<4.32	-
PM <sub>2.5</sub> with Condensable (mg/Rm <sup>3</sup> ) <sup>(1)</sup>	<4.71	<3.98	<3.42	<4.04	-
Hydrogen Fluoride (mg/Rm <sup>3</sup> ) <sup>(1)</sup>	<0.11	<0.11	<0.11	<0.11	-
Ammonia (mg/Rm <sup>3</sup> ) <sup>(1)</sup>	0.53	0.54	0.51	0.53	-
Cadmium (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	1.51	0.11	0.032	0.55	7
Lead (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	0.38	0.44	0.37	0.39	50
Mercury (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	<0.14	0.028	<0.13	<0.099	15
Antimony (μg/Rm <sup>3</sup> ) <sup>(1)</sup>	<0.046	<0.047	<0.045	<0.046	-
Arsenic (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	<0.11	<0.12	<0.11	<0.12	-
Barium (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	10.9	11.6	10.7	11.1	-
Beryllium (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	<0.046	<0.047	<0.045	<0.046	-
Chromium (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	0.81	0.95	0.78	0.85	-
Cobalt (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	0.046	0.064	<0.023	<0.044	-
Copper (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	1.51	1.45	2.05	1.67	-
Molybdenum (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	4.02	4.26	3.84	4.04	-
Nickel (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	0.53	1.03	0.45	0.67	-
Selenium (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	<0.23	<0.24	<0.23	<0.23	-
Silver (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	<0.046	<0.047	<0.045	<0.046	-
Thallium (μg/Rm <sup>3</sup> ) <sup>(1)</sup>	<0.046	<0.047	<0.045	<0.046	-
Vanadium (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	<0.11	<0.12	<0.11	<0.12	-
Zinc (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	10.9	15.7	12.2	12.9	-
Dioxins and Furans (pg TEQ/Rm <sup>3</sup> ) <sup>(3)</sup>	<2.90	<2.35	-	<2.63	60
Total Chlorobenzenes (ng/Rm <sup>3</sup> ) <sup>(1)</sup>	<243	<416	-	<330	-
Total Chlorophenols (ng/Rm <sup>3</sup> ) <sup>(1)</sup>	<490	<492	-	<491	-
Total PAHs (ng/Rm <sup>3</sup> ) <sup>(1)</sup>	<180	<167	-	<174	-
VOCs (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	<34.6	<26.2	<26.7	<29.2	-
Aldehydes (µg/Rm <sup>3</sup> ) <sup>(1)</sup>	<663	<768	<714	<715	-
Total VOCs (µg/Rm <sup>3</sup> ) <sup>(1) (4)</sup>	<698	<794	<741	<744	-
Quench Inlet Organic Matter (THC) (ppm, dry) <sup>(2)</sup>	0.5	0.3	0.3	0.4	50

\* based on process data provided by Covanta

- (1) dry at 25°C and 1 atmosphere, adjusted to 11% oxygen by volume
- (2) dry basis as equivalent methane (average of each 60 minute test with data recorded in 1-minute intervals)
- (3) calculated using the NATO/CCMS (1989) toxicity equivalence factors and the full detection limit for those isomers below the analytical detection limit, dry at 25°C and 1 atmosphere, adjusted to 11% oxygen by volume
- (4) Includes all components from the volatile organic compounds test list in the ECA (i.e. Volatile Organic Sampling Train and Aldehyde Sampling train components).



A summary of the minimum, average and maximum concentrations for the combustion gases measured by the DYEC CEMS with in-stack limits listed in the ECA is provided below for the two units.

Boiler No.	Parameter	Minimum	Average	Maximum	In-Stack Limit
	Carbon Monoxide (mg/Rm <sup>3</sup> ) <sup>(1)</sup>	5.8	13.3	26.0	40
Doilor No. 1	Hydrogen Chloride (mg/Rm <sup>3</sup> ) <sup>(2)</sup>	0.1	0.6	1.1	9
Boller NO. 1	Nitrogen Oxides (mg/Rm <sup>3</sup> ) <sup>(2)</sup>	110	111	111	121
	Sulphur Dioxide (mg/Rm <sup>3</sup> ) <sup>(2)</sup>	3.5	7.2	10.6	35
	Carbon Monoxide (mg/Rm <sup>3</sup> ) <sup>(1)</sup>	9.8	15.8	26.5	40
Deiler No. 2	Hydrogen Chloride (mg/Rm <sup>3</sup> ) <sup>(2)</sup>	1.5	2.1	3.3	9
Boller No. 2	Nitrogen Oxides (mg/Rm <sup>3</sup> ) <sup>(2)</sup>	108	109	110	121
	Sulphur Dioxide (mg/Rm <sup>3</sup> ) <sup>(2)</sup>	0	1.8	4.3	35

(1) 4-hour average measured by DYEC CEMS, dry at 25°C and 1 atmosphere adjusted to 11% oxygen by volume

(2) 24-hour average measured by DYEC CEMS, dry at 25°C and 1 atmosphere adjusted to 11% oxygen by volume

The emission data measured at each Boiler BH Outlet during the testing program was combined and used to assess the emissions from the Main Stack against the current point of impingement criteria detailed in Ontario Regulation 419/05.

Dispersion modelling was completed using the CALPUFF model (using Version 7.2.1 level 150618 as approved by the MECP in December 2021) by WSP Canada Inc. (formerly Golder Associates). A summary of the results are provided in the tables appended to this report (Appendix 27) based on calculated ground level Point of Impingement (POI) concentrations for the average total Main Stack emissions. As shown in the tables, the calculated impingement concentrations for all the contaminants were well below the relevant MECP standards.

In summary, the key results of the emission testing program are:

- The facility was maintained within the operational parameters defined by the amended ECA that constitutes normal operation during the stack test periods. Testing was conducted at a steam production rate of greater than 780 tonnes of steam per day for each Boiler (approximately 96.6% of maximum continuous rating). The maximum continuous rating for the facility is 1614.7 tonnes of steam per day for the two Boilers combined (33.64 tonnes of steam per hour or 807.4 tonnes per day for each Boiler).
- The in-stack concentrations of the components listed in the ECA were all below the concentration limits provided in Schedule C of the ECA.
- Using CALPUFF dispersion modelling techniques, the predicted maximum point of impingement concentrations, based on the average test results for both boilers, show DYEC to be operating well below all current standards in Regulation 419/05 under the Ontario Environmental Protection Act and other MECP criteria including guidelines and upper risk thresholds.

Tables referenced in this report for the tests conducted at Boiler No. 1 and Boiler No. 2 are provided in Appendix 1 and Appendix 2, respectively.

## Oversight of December 2024 Voluntary Air Emission Source Testing at the Durham York Energy Centre

**Final Report** 

May 23, 2025

Prepared for: Regional Municipality of Durham

> Prepared by: Stantec Consulting Ltd.

> > Project/File: 160901178



## Limitations and Sign-off

The conclusions in the Report titled Oversight of December 2024 Voluntary Air Emission Source Testing at the Durham York Energy Centre are Stantec's professional opinion, as of the time of the Report, and concerning the scope described in the Report. The opinions in the document are based on conditions and information existing at the time the scope of work was conducted and do not take into account any subsequent changes. The Report relates solely to the specific project for which Stantec was retained and the stated purpose for which the Report was prepared. The Report is not to be used or relied on for any variation or extension of the project, or for any other project or purpose, and any unauthorized use or reliance is at the recipient's own risk.

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Prepared by Signed Original on File (signature)

Lucas Neil, Ph.D. Senior Atmospheric Scientist

Reviewed by <u>Signed Original on File</u> (signature)

Boris Chen, M.A., P.Eng. Associate, Project Manager, Air Quality

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Appendix A Field Notes (Adomait Environmental Services)

## Acronyms / Abbreviations

ADMP	Air Dispersion Modelling Plan
Adomait	Adomait Environmental Services
ATG	Alliance Technical Group
CARB	California Air Resources Board
СВ	chlorobenzenes
CEM	Continuous Emissions Monitoring
СО	carbon monoxide
СР	chlorophenols
D/F	dioxins and furans
DYEC	Durham York Energy Centre
ECA	Environmental Compliance Approval
LCS	laboratory control sample
MECP	Ministry of the Environment, Conservation and Parks
MSW	municipal solid waste
NOx	nitrogen oxides
02	molecular oxygen
O. Reg. 419/05	Ontario Regulation 419/05
РАН	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
POI	Point of Impingement
QA/QC	Quality Assurance/Quality Control
Region	Regional Municipality of Durham

## Oversight of December 2024 Voluntary Air Emission Source Testing at the Durham York Energy Centre Acronyms / Abbreviations

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SO2	sulphur dioxide
Stantec	Stantec Consulting Ltd.
SVOCs	semi-volatile organic compounds
TEQ	Toxic Equivalents
THC	Total Hydrocarbons
US EPA	United States Environmental Protection Agency

## List of Symbols and Units of Measure

dscm/h	dry standard cubic metre per hour
g/s	gram per second
hr	hour
kg/hr	kilogram per hour
m <sup>3</sup> /hour	cubic metre per hour
min	minutes
mg/m <sup>3</sup>	milligram per cubic metre
μg/m³	microgram per cubic metre
ppm	parts per million
tonnes/hr	tonnes per hour
µg/s	microgram per second
ng/s	nanogram per second
ng TEQ/s	nanogram of toxic equivalents per second
pg TEQ/Rm <sup>3</sup>	picogram of toxic equivalents per reference cubic metre

## Oversight of December 2024 Voluntary Air Emission Source Testing at the Durham York Energy Centre Acronyms / Abbreviations

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°F	degrees Fahrenheit
°C	degrees Celsius
%	percent

## 1 Introduction

The Durham York Energy Centre (DYEC) is a thermal treatment facility with a maximum thermal treatment rate of 140,000 tonnes/year of municipal solid waste (MSW). The facility was built to operate 24 hours/day, seven days/weeks, 365 days/year. MSW may be delivered to the facility six days per week between 7:00 am to 7:00 pm.

The facility performs annual source testing as required per the facility's Amended Environmental Compliance Approval (ECA) (No. 7306-8FDKNX). Section 7(1) of the ECA states that "the owner shall perform annual source testing, in accordance with the procedures and schedule outlined in the attached Schedule E, to determine the rates of emissions of the test contaminants from the stack".

Stantec Consulting Ltd. (Stantec) was retained by The Regional Municipality of Durham (the Region) to provide oversight services of the air emission source testing campaign conducted at the DYEC between December 2<sup>nd</sup> to December 5<sup>th</sup>, 2024, by Alliance Technical Group (ATG), formerly ORTECH Consulting Inc.

## 2 On-Site Source Testing Observations

Stantec sub-contracted the on-site auditing of the testing to Adomait Environmental Solutions Inc. (Adomait). Adomait staff, led by Martin Adomait, M.Sc., P.Eng., were on on-site December 3<sup>rd</sup> to observe the sampling for semi-volatile organic compounds (SVOCs), including dioxins and furans (D/F). The on-site review of the Stack Sampling Protocol was conducted to check that the testing follows sampling methods described in the Ontario Source Testing Code, and includes a review of:

- 1. On-site observations of testing
- 2. Sampling locations
- 3. Sampling procedures

- 4. Sample recovery and analysis, and
- 5. Process parameter review.

The following sections were provided to the Region in a memorandum dated March 26<sup>th</sup>, 2025. They are replicated here for completeness and to provide the Region with a single document summarizing the entirety of the peer review.

## 2.1 Testing Schedule

The Fall Source test was planned for the week of December 2<sup>nd</sup>, 2024, with sampling of semi-volatile organic compounds (SVOCs) scheduled to occur on December 4<sup>th</sup> and 5<sup>th</sup>. Adomait Environmental Solutions Inc. (Adomait) was scheduled to attend the Fall Voluntary Source testing to observe sampling of SVOCs conducted by ATG.

Following the preliminary setup and testing conducted by ATG on Friday, November 29<sup>th</sup>, Stantec was informed that SVOC testing was tentatively scheduled for Monday, December 2<sup>nd</sup>. In consultation with the Stantec audit team, the testing schedule was adjusted to commence on Tuesday, December 3<sup>rd</sup>. Upon arrival at the site on December 3<sup>rd</sup>, Adomait was advised that SVOC tests for both boilers had been conducted on December 2<sup>nd</sup>. Given this development, it was agreed that the Stantec audit team would proceed with the planned observations as outlined in this report.

The third test on Boiler No. 1 proceeded on Tuesday, December 3<sup>rd</sup>; however, the third test for Boiler No. 2 was postponed. A feed chute plug prevented completion of the third scheduled test run for SVOCs on Boiler No. 2. Despite best efforts to resolve the malfunction promptly, the malfunction rendered it infeasible to proceed with the third run. Boiler 2 was subsequently taken off-line for inspection and repair. Therefore, the observation team was only present for one SVOC test conducted on Boiler 1 on December 3<sup>rd</sup>. Furthermore, the SVOC data for Boiler No. 2 will only include results from the two completed test runs.

## 2.2 **Process Operations Centre Observations**

The auditor was stationed in a conference room equipped with a screen to display realtime and recent data related to parameters being monitored. Occasional visits to the control room also took place when necessary. In addition, Excel files containing oneminute data were provided to the auditor daily. The one-minute data summarized the various system parameters for Boiler 1 and Boiler 2 lines discussed below, except for the quench-tower inlet/outlet temperatures and moisture levels. The inlet/outlet temperatures were provided separately, while moisture data could only be accessed directly from the system monitors in the control room. Therefore, moisture values were calculated from available wet and dry oxygen readings.

The dioxin and furan emission sampling process and the incineration operations were generally stable throughout. Two dioxin/furan sampling runs were completed on December 2<sup>nd</sup> at both boilers, with a third sampling run completed on Boiler No. 1 on December 3<sup>rd</sup>. However, on December 3<sup>rd</sup>, a feed chute plug prevented completion of the third scheduled test run for Boiler No. 2. As noted above, the issue could not be resolved to allow for testing to occur. Therefore, the SVOC data for Boiler No. 2 will only include results from the two completed test runs.

The on-site auditors monitored the real-time display of trending data, took notes of anomalies and discussed any deviations, and any corrective measures taken, with facility staff. After the monitoring periods, Adomait staff further reviewed the recorded data in Excel files, as provided by facility staff. Various monitoring parameters in the Excel files were more closely examined, eliminating data that may have been influenced by calibration or purging events that took place during this time. These parameters are summarized in Table 1, which includes oxygen (O<sub>2</sub>) one-minute average, carbon monoxide (CO) one-minute average and 4-hour rolling average, nitrogen oxides (NOx) 24-hour rolling average (for the portion of day that data was collected), sulphur dioxide (SO<sub>2</sub>) 24-hour rolling average (for the portion of day that data was collected), the calculated moisture content, combustion temperatures, and steam production. These

parameters were examined by the auditors for both December 2<sup>nd</sup> and 3<sup>rd</sup> when the dioxin and furan sampling was conducted. The stack testing period review was limited from 7:00 to 19:00 on December 2<sup>nd</sup>, and 7:00 to 17:00 on December 3<sup>rd</sup>, 2024. Table 1 also includes the emissions criteria for these parameters, as provided in the facility's Environmental Compliance Approval (ECA).

Parameter	Oxygen (%) 1 min averages	CO (mg/m <sup>3</sup> ) 4-hr maximum & average	NO <sub>x</sub> (mg/m <sup>3</sup> ) average over testing period	SO <sub>2</sub> (mg/m <sup>3</sup> ) average over testing period	Moisture (%) 1 min value range (average over testing period)	Combustion Temp (°C) 1 hr value range (average over testing period)	Steam Production (10 <sup>3</sup> kg/hr) 1 min value range (average over testing period)
Boiler 1 Dec. 2	7.05 - 10.38	14.0 & 11.92	110	2.8	-0.9 - 34.1 (23.11)	1097 - 1212 (1164)	30.9 - 35.1 (33.2)
Boiler 1 Dec. 3	6.36 - 12.15	23.00 & 13.75	108	2.53	-7.9 - 34.0 (23.3)	1109 - 1179 (1152)	29.5 - 35.6 (33.1)
Boiler 2 Dec. 2	7.50 - 10.19	15.0 & 13.08	110	2.2	-0.7 - 28.4 (18.3)	1034 - 1103 (1067)	29.8 - 35.1 (33.2)
Boiler 2 Dec. 3	7.39 - 10.79	16.00 & 11.42	107	0.04	-1.7 - 33.3 (19.2)	1030 - 1084 (1063)	29.68 - 35.26 (33.12)
Criteria	>6.0	40 (4 hr)	121 (24 hr)	35 (24 hr)	-	1000	33.6

Table 1	Summary of	System Monitoring	Parameters	(December 2nd – 3rd	I)
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The following conclusions of the Process Operations Center observations and review of the monitoring parameters were made for the stack testing period.

- Oxygen concentrations ranged from 6.36% to 12.15% at Boiler 1, and 7.39 % to 10.79% at Boiler 2 on December 2nd and 3rd, 2024. The higher oxygen readings were typically recorded when the sampling system was influenced by calibration activities. The ECA specifies that the oxygen concentration shall not be less than 6%, as recorded by the CEM system. The operation complied with this requirement during the testing period.
- 2. CO concentrations at Boiler 1 were generally stable throughout the tests, ranging between 0.0 and 98.6 milligram per cubic metre (mg/m<sup>3</sup>) at 1 minute interval readings. The calculated 4-hour average ranged from 7 to 23 mg/m<sup>3</sup>. CO concentrations at Boiler 2 were also generally stable throughout the tests, ranging between 0.1 and 78.4 mg/m<sup>3</sup> at 1 minute interval readings. The calculated 4-hour average ranged from 10 to 16 mg/m<sup>3</sup>. Occasional spikes in CO concentration were likely due to cold CO spikes that may be attributed to incomplete combustion. These were typical of previous tests and generally did not persist beyond one minute. The occurrence of CO spikes is normal, and the immediate suppression of spikes indicate that the systems are operating effectively. The 4-hour averages of CO were less than the in-stack emission limit of 40 mg/m<sup>3</sup>.
- 3. The rolling average 1-hour NOx concentrations over two days, during the testing periods, ranged between 107 and 110 mg/m<sup>3</sup> for both units (Table 1). This implies that, if extrapolated over a 24-hour operating period, emissions of NOx from both units would be below the in-stack emission limit of 121 mg/m<sup>3</sup> calculated as a 24-hour rolling arithmetic average. Consequently, the auditors are satisfied that the 24-hour rolling average meets the required standards during the stack sampling period.

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- 4. The SO2 concentrations were stable throughout the monitoring period with 1-min values between 0.0 and 34.3 mg/m<sup>3</sup> for both units. This pattern was generally consistent given the constant lime injection rate of 135 kg/h for Boiler 1 on December 3rd. Lime feed rates at Boiler 2 were not observed, as auditing staff were not present for testing on Boiler 2. During the testing, the SO2 concentrations rose to a maximum of 34 mg/m<sup>3</sup>. The system responded effectively by increasing the lime injection rate. After approximately 10 to 20 minutes, the SO2 concentrations consistently declined due to the increased lime injection. This implies that, if extrapolated over a 24-hour operating period, emissions of SO2 from both units would be below the in-stack emission limit of 35 mg/m<sup>3</sup> calculated as a 24-hour rolling arithmetic average. Consequently, the auditors are satisfied that the 24-hour rolling average meets the required standards during the stack sampling period.
- 5. The moisture content at this facility was determined via a mathematical relationship utilizing continuous monitoring and the dry and wet oxygen readings. Table 1 summarized the range and average moisture content from both Boiler 1 and Boiler 2 process lines. The range from both lines can report erroneous negative or very low moisture levels (e.g. -0.7% or -7.9%). This can be a typical artifact of an unstable wet oxygen analyzer. The negative or very low levels, however, appeared very infrequently and were isolated. Since the discrepancies were very isolated, these values do not greatly affect the average moisture levels. The average moisture levels as presented in Table 1 for Boiler 1 were elevated relative to the measured gravimetric moistures reported by ATG (~16%). Boiler 2 had more realistic moisture levels (18 - 19%), but still slightly high. However, it is the understanding of the auditors that the moisture levels shown in Table 1 are not used in any calculations, either for dry flow rates or emission rates, for use in the source testing results. Consequently, as long as the moisture data is not used for compliance testing reporting purposes, it should not create erroneous emission data.

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- 6. The combustion zone temperatures for each boiler were maintained above the minimum temperature of 1000°C. The averaging time required by the ECA for record keeping and compliance is one hour (ECA Schedule F). All one-hour averages were greater than 1000°C.
- 7. The quench tower inlet and outlet temperatures showed consistent control, reducing inlet temperatures by ~19°C on average on December 3<sup>rd</sup>. The inlet temperatures have been known to increase gradually each day, but on this occasion, there was practically no change. The outlet temperatures generally remained consistent at ~65.5°C (150°F). As a result of consistent outlet temperatures from the quench towers, Boiler 1 baghouse inlet temperatures remained steady, near the midpoint of the performance requirement of 120°C to 185°C set out in the ECA (Section 6(2)(h)). Therefore, the system was operating in compliance with the conditions in the ECA.
- 8. The real-time display of the average feed rate of carbon dosing for Boiler 1 remained consistent and stable at ~5 kg/h. Average carbon dosage at Boiler 2 had similar rates on the day of testing. Carbon is used to control emissions of dioxin and furans and, therefore, consistent concentrations are required. Long term averages of ~5 kg/h have shown to be an effective control measure based on experience with this facility.
- 9. Production at the plant is often evaluated in terms of steam flow. The target was 33.6 thousand kg/h. Steam flow for Boiler 1 averaged 33.2 and 33.1 thousand kg/h on December 2nd and 3rd, respectively. Steam flow for Boiler 2 averaged 33.2 and 33.1 thousand kg/h on December 2nd and 3rd, respectively. All averages were within 90% of the target. The range of the nominal steam generation is within the 72 thousand kg/h of steam listed in the ECA. The production was similar to levels observed by the auditors during previous years' stack testing campaigns at this facility.

## 2.3 **Observations of the Stack Testing Operations**

Observations of the stack testing procedures were undertaken during the SVOC sampling part of the program. The field observations are provided in a series of tables in Appendix A.

- Where possible, leak checks were observed at both the start, traverse change, and at the conclusion of all SVOC tests conducted. When the leak checks were successful, the tests could be regarded as valid. Leak checks were always performed in a systematic and non-rushed manner to ensure good Quality Assurance/Quality Control (QA/QC). The summary of Adomait field observations is provided in Appendix A.
- Previous aberrations in the stack velocity measurements were reduced by using metal plates and rubber sealer plates to reduce and almost eliminate these problems. This set-up was similar to previous stack testing regimes.
- 3. Impinger/adsorbent temperatures were checked repeatedly at each sampling train. ATG supplied plenty of ice to the crews. The temperatures were maintained in the range of 4.4°C to 12.7°C (40°F to 55°F). Maintaining low adsorbent temperatures improves adsorption of dioxins/furans on the sampling media. The temperatures were maintained at reasonably low levels and were deemed acceptable.
- 4. The audit team also recorded dry gas meter corrections and pitot factors for comparison with the final report.
- 5. As per standard operating procedures, all sampling trains operating at the baghouse outlet locations were inserted and withdrawn from the stack while the sampling train was running.
- No review of the sample recovery procedures conducted by ATG staff were performed.

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Based on audit staff observations, ATG staff followed all appropriate sampling and recovery procedures as noted by the sampling methods (EPS 1/RM/2 and US EPA Method 23).

## 3 Report Review

ATG's draft source sampling report was provided to Stantec on March 14<sup>th</sup>, 2025. ATG's final source sampling report (the "Report") was provided to Stantec on March 31<sup>st</sup>, 2025. Stantec and Adomait conducted a review of the Report, with focus given to a detailed review of all SVOC-related sections.

## 3.1 Review of Source Testing Protocols

Adomait has conducted a review of the source testing report as it relates to the dioxins and furans and has found no discrepancies between the methods described in the report compared to the observations made during testing. A further review of the dioxin/furan emission results at Boiler 1 compared to that of Boiler 2 was also undertaken. A comparison of the speciated dioxins and furans concentrations showed similar characteristics between the two boilers with minor exceptions. This is inline with expectations given that both boilers are processing a similar waste stream, and both boilers used similar combustion practices. Furthermore, the concentrations and patterns of the dioxins and furans suggested a consistent pattern when compared to the historical testing record from 2017 to 2024, except for the tests conducted during the period of 2020-2021 (see Table 2). For comparison, the in-stack limit is a combined value of 60 pg TEQ/Rm<sup>3</sup>. A plugged baghouse in 2020 posed problems for Boiler 1. Given the consistency of the results between boilers, and the historical record, it was concluded that the boilers are operating as intended during the 2024 Voluntary Source Testing. Furthermore, given the consistency of the results with the historical record, Adomait was satisfied that all sampling/analytical protocols were followed according to appropriate methodologies. Consequently, Adomait has no concerns over the validity of collected samples, and the dioxin and furan results.



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Campaign	Boiler 1 Average	Boiler 2 Average	Difference
2017 Spring	<5.32	<7.67	-2.35
2017 Fall	<5.94	<10.1	-4.16
2018 Spring	<10.4	<10.5	-0.1
2018 Fall	<5.05	<3.22	1.83
2019 Spring	<4.55	<4.58	-0.03
2019 Fall	<1.51	<3.24	-1.73
2020 Spring	<1.82	<2.53	-0.71
2020 Fall	<28.7	<7.26	21.4
2021 Spring	<4.10	<7.35	-3.25
2021 Fall	<14.7	<2.56	12.1
2022 Spring	<7.28	<4.10	3.18
2022 Fall	<3.68	<3.91	-0.23
2023 Spring	<6.61	<9.18	-2.57
2023 Fall	<10.9	<4.43	6.47
2024 Spring	<2.30	<1.88	0.42
2024 Fall	<2.25	<2.63	-0.38

Table 2:	Summary of Historical the Dioxin and Furan Concentrations (pg
	TEQ/Rm <sup>3</sup> )

Notes: All data was calculated using NATO/CCMS (1989) toxicity equivalence factors and full detection limit for those isomers below the analytical detection limit, dry at 25°C, and 1 atmosphere, adjusted to 11% oxygen.

## 3.2 Review of Analytical Reporting

Stantec has conducted a review of the source testing report. While the source testing report was reviewed in its entirety, focus was given to a detailed review of all SVOC-related sections. As per the contract with the Region, the project did not include the oversight and audit review of actual laboratory work. Therefore, no statement of efficacy is provided regarding the processing, handling, and analysis of laboratory samples.

Based on this review, Stantec provides the following comments:

- 1. Dioxins and Furans
  - a. The recoveries of Field Spike Standards of all D/F samples were within the acceptable range of recoveries provided in Environment Canada Reference Method EPS 1/RM/2 (EPS 1/RM/2) (70% – 130%).
  - b. The recoveries of Extraction Standards for all D/F samples are within the acceptable range of recoveries provided in EPS 1/RM/2, which is either 40% 130% or 25 130%, depending on the specific D/F, for all but one sample (TEST #2 APC OUTLET #1).
  - c. The recoveries of Cleanup Standards of all D/F samples were within the acceptable range of recoveries provided in EPS 1/RM/2 (40% 130%), for all but one sample (TEST #2 APC OUTLET #1).
  - d. Stantec was able to trace and confirm the D/F congener group emission rate calculations presented by ATG provided in Section 7.9.1 (Pages 43 & 44).
  - e. Stantec was able to trace and confirm the D/F and dioxin-like PCB toxic equivalents (TEQ's) emission rate calculations (ng TEQ/s) presented by ATG provided in Section 7.9.1 (Page 45).
  - f. Stantec was able to trace and confirm the in-stack TEQ concentration calculations presented by ATG (see Section 7.9.1, Page 46) and confirm that the D/F TEQ concentrations are below the maximum in-stack limit of 60 pgTEQ/Rm<sup>3</sup>.
- 2. PCBs
  - a. The recoveries of the Extraction Standards for PCBs are within the acceptable range of recoveries provided in US EPA Method 1668C (10% 145%).

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- b. The recoveries of Cleanup Standards of all PCB samples were within the acceptable range of recoveries provided in US EPA Method 1668C (5% 145%, or 10% 145%).
- c. PCB samples were not blank corrected based on the blank sampling train and laboratory blank results. This is an acceptable methodology and will provide an over-estimate of the true concentrations within the samples.
- 3. Chlorobenzenes
  - a. Chlorobenzene samples were not blank corrected based on the blank sampling train and laboratory blank results. This is an acceptable methodology and will provide an over-estimate of the true concentrations within the samples.
  - b. Stantec was able to trace and confirm the chlorobenzene emission rate calculations (µg/s) presented by ATG provided in Section 7.9.2 (Page 47).
- 4. Chlorophenols
  - a. All CP samples experienced low Extraction Standard recoveries (i.e., outside the accepted window of 50 150%) for at least one standard, which indicates a potential low bias on the samples. As per previous testing campaigns, CP sample concentrations were not corrected for this low bias. Furthermore, most CP sample concentrations were found to be below the detection limit. Therefore, as has been noted before, correction for this bias would not have been statistically meaningful. While the reduced recoveries may result in increased error in the determined concentrations, there is currently no concern that the error may lead to values over and above relevant ambient air quality standards.
  - b. The Report notes (page 34) that the detection limit for a number of chlorophenol compounds are elevated due to poor recoveries below method control limits. However, the modelling results indicated that all CP

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values are well below the corresponding standards. Consequently, there is no concern that CP POI values may be over and above relevant ambient air quality standards.

- c. Stantec was able to trace and confirm the chlorophenol emission rate calculations (µg/s) presented by ATG provided in Section 7.9.2 (Page 47).
- 5. Polycyclic Aromatic Hydrocarbons
  - a. The recoveries of Field Sampling Standards for PAHs are within the acceptable range of recoveries provided in CARB Method 429 (50% 150%).
  - b. The recoveries of the Extraction Standards for multiple PAHs were outside the acceptable range of recoveries provided in CARB Method 429, which is 50% – 150%. In all cases the recoveries were biased low, which indicates a potential low bias on the sample results. PAH sample concentrations were not corrected for this low bias. This may result in an underestimation of facility emission rates for PAHs. However, the target analyte recoveries are all in control for the LCS. Therefore, no significant bias to the sample results is expected. Furthermore, based on modelling results all PAH values are well below the corresponding standards. Therefore, a correction factor for the decreased recoveries would still indicate PAH levels well below the standard. Consequently, there is currently no concern that the error may lead to values that would have approached or exceeded the relevant in-stack or ambient standards.
  - c. PAH samples were not blank corrected based on the blank sampling train and laboratory blank results. This is an acceptable methodology and will provide an estimate of worst-case concentrations within the samples.
  - d. Stantec was able to trace and confirm the PAH emission rate calculations (µg/s) presented by ATG provided in Section 7.9.3 (Page 48).

## 3.3 Review of Dispersion Modelling

Appendix 27 of the Report presents the results of dispersion modelling based on results of the source testing program. The dispersion modelling provided in the appendix was completed by WSP, who provided Stantec with all relevant modelling files (e.g., input files, output files, etc.) for review.

Based on this review, Stantec provides the following comments:

- Section 2.0 of WSP's memorandum indicates that "[t]hree tests were completed for each unit and averaged." To avoid confusion with the main body of ATG's report, this sentence should be revised to reflect that only two tests were conducted on Boiler 2.
- Table 5 of WSP's memorandum states that emission rates were updated to use "March 2024 Source Testing Data." The month and/or year should be corrected to clarify what set of data is being used in the current assessment.
- Stantec confirmed that the CALPUFF and CALPOST version numbers and level numbers used in the model (as indicated in the corresponding input file) matched those provided in WSP's memorandum.
- 4. Stantec reviewed the CALPUFF options outlined in Table 2 of WSP's memorandum. These options match those in the supplied input files for modelling years 2015, 2017, and 2018. Note that the model was run for meteorological years 2014 to 2018.
- 5. Stantec reviewed the source parameters provided in Table 3 of WSP's memorandum and confirmed that the parameters match those determined from the source testing. These source parameters also match those in the supplied input files for modelling years 2015, 2017, and 2018.
- 6. Stantec reviewed the Dispersion Factors (without meteorological anomaly removed) provided in Table 4 of WSP's memorandum to confirm that they matched the maximum value provided in the CALPOST output files for all five

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years modelled. The values provided in the report equalled those in the output files. Minor discrepancies are expected to be the result of number rounding.

Averaging Period	10-min	½-hr	1-hr	24-hr	30-day	Annual
WSP Dispersion Factor before meteorological anomaly removal [µg/m³ per g/s]	45.04	32.76	27.30	1.24	0.17	0.06
Output File Dispersion Factor without meteorological anomaly removal [µg/m <sup>3</sup> per g/s]	45.08	33.15	27.30	1.24	0.17	0.06

- Stantec reviewed the Site-Wide Emission Inventory provided in Appendix A of WSP's memorandum. The following SVOCs were reviewed, and emission rates were found to match those calculated in ATG's report, which also equalled those calculated by Stantec.
  - a. Monochlorobenzene
  - b. 2,6-dichlorophenol
  - c. Benzo(a)Pyrene
  - d. Phenanthrene

The emission rate for Dioxins, Furans and Dioxin-like PCBs is listed as 0.000097 µg TEQ/s. This number does not match the values listed in Table 50 in Appendix 1 and Table 48 in Appendix 2, which sum to a value of 0.000084 µg TEQ/s. However, since the value used in the assessment is larger than the value determined from the laboratory data, the current assessment can be considered a conservative estimate of the POI value for Dioxins, Furans and Dioxin-like PCBs.
#### Oversight of December 2024 Voluntary Air Emission Source Testing at the Durham York Energy Centre 4 Conclusions

May 23, 2025

- 8. Stantec reviewed key SVOCs from the Emission Summary Table (Appendix B of WSP's memorandum) to ensure that Maximum POI Concentrations were estimated appropriately from the Dispersion Factors shown in Table 4. The list of substances reviewed were:
  - a. Benzo(a)pyrene
  - b. Monochlorobenzene
  - c. Dioxins, Furans, and Dioxin-like PCBs (assuming an emission rate of 0.000097  $\mu g$  TEQ/s)

As summarized in the above discussion, there were minor concerns with some aspects of the modelling. However, the POI values presented in Appendix 27 of the Report provide a conservative estimate of potential impacts and are well below MECP criteria. The minor concerns discussed do not materially affect the conclusions of the overall dispersion modelling work.

# 4 Conclusions

Based on a review of the Source Testing Report, and the on-site observations, there are no concerns about the validity of the source testing data reported by ATG. Stantec is satisfied that the conduct of the source testing, the analytical analysis, and the analytical calculations were carried out in a professional manner and followed all relevant guidelines, protocols, and best practices.

Based on a review of the CALPUFF Modelling (Appendix 27), Stantec is satisfied that the modelling was completed in accordance with the facility's ECA (Condition 6.1 and Schedule B), as well as O. Reg. 419/05. However, some minor discrepancies were found between the model input files and the source testing data. We recommend that WSP should be provided our comments for their consideration and be given the opportunity to decide if revisions may be warranted. These revisions, however, are not

#### Oversight of December 2024 Voluntary Air Emission Source Testing at the Durham York Energy Centre 4 Conclusions May 23, 2025

expected to change the compliance status of the facility, as the facility's POI values are well below the specified MECP standards, based on the provided analysis.

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Oversight of December 2024 Voluntary Air Emission Source Testing at the Durham York Energy Centre May 23, 2025

# Appendices

Oversight of December 2024 Voluntary Air Emission Source Testing at the Durham York Energy Centre Appendix A Field Notes (Adomait Environmental Services) May 23, 2025

Appendix A

Field Notes (Adomait Environmental Services)



Reference: Oversight of December 2024 Voluntary Air Emission Source Testing at the Durham York Energy Centre

	Semi-\	/olatiles-3	Metals/Particulate-1			
Date	Deceml	ber 3, 2024	Decem	ber 3, 2024		
Observation	Во	iler #1	Boiler #2			
Nozzle Size/Type	0.25	08/glass	0.2498			
Meter Cal/ID	1.01	/ΔH@ 1.819	1.008 /	/ ΔH@ 1.835		
Pitot cal	C	0.839	(	0.842		
Calc Moisture		16%		16%		
Static	-	10.5		-10.9		
Pitot Leak Check		Pass		Pass		
	·		·			
Pre-traverse Leak Check	.08 @15		<.001 @15			
SVOC Test Start Time	8:28		9:20			
Running On Insertion	Yes		Yes			
Stack temperature °F	277,278,279,280		277,280,280,278,277,275			
Trap temperature °F	40,40,40,40,39,40,42,44,46		48,49,49,50,52			
Traverse Completed	10:28		10:50			
Post-traverse Leak Check	.006 @ 15		<0.001@15			
Running on removal	Yes		Yes			
Pre-traverse Leak Check	0.004 @ 15	0.004 @ 15	<0.001@10	<.001@15		
SVOC Traverse Start Time		10:36		11:03		
Running On Insertion		Yes		Yes		
Stack temperature °F		246,274,283,284,284,287,286		281,281,281,282,281,279,281		
Trap temperature °F		42,44,45,41,42,42,44,55		46,46,47,47,46,48,48,48,48		
Traverse Completed		12:36		12:34		
Final Leak Check		.004@15		<0.001@15		
Running on removal		Yes		Yes		

### **Technical Memorandum**

	HDR Observations During Testing and Summary of Results
Re:	<b>Durham York Energy Centre: Fall 2024 Voluntary Stack Test</b>
Date:	May 22, 2025
From:	Bruce Howie, PE
	John Clark, Alan Cremen, Kirk Dunbar, Abigail Fleming (HDR)
001	Nicia Williams, P.Eng (Region of Durham)
Cer	Lipika Saha, P.Eng (Region of Durham)
To:	Andrew Evans, P.Eng, Region of Durham

### Introduction

During the period from December 2 through December 5, 2024, Alliance Technical Group (Alliance) (formerly Ortech Consulting Inc) conducted the Voluntary Source Test at the Durham York Energy Center (DYEC) for the Regions of Durham and York. This voluntary testing has been performed annually since the start of Commercial Operation in 2016. Testing was performed in accordance with the reference methods required under Section 7(1) of the Amended Environmental Compliance Approval (ECA) No. 7306-8FDKNX, originally issued by the Ontario Ministry of Environment, Conservation and Parks (MECP) on June 29, 2011. HDR personnel were on-site to observe DYEC operations and stack sampling procedures during the testing on December 3<sup>rd</sup> and December 4<sup>th</sup>. The purpose of this technical memorandum is to summarize the observations made by HDR personnel during the testing as well as to summarize our review of the results of the Voluntary Source Test based on the information provided in the Alliance Test Report dated March 28, 2025.

HDR notes the following issues that occurred during the Fall 2025 Voluntary Source Testing:

 During the Voluntary Source Test of Unit 2, only two Dioxin/Furan (D/F) sampling runs were completed by Alliance. These two runs were successfully completed on December 2, 2024. Later that day, there was a feedchute plug on Unit 2 that was subsequently cleared and operation of the unit continued. On the morning of December 3, 2024, Reworld indicated that the third D/F run would be postponed until December 9, 2024. Another feedchute plug occurred on December 6, 2024, which resulted in Reworld further delaying the third test run. Unit 2 was taken down briefly on December 10 to assess the feedchute and feed table damage and to develop a work scope for repairs to the unit. MECP was consulted on whether a third run was required, and they commented that this is a voluntary source test, and the results are not for the purpose of demonstrating compliance. During the Voluntary Source Test runs, a simultaneous AMESA test run was collected and all results demonstrated very low levels of D/F. Based on these results, it was agreed that the testing program demonstrated levels of D/F well under the permit level and no further testing was needed prior to the planned Compliance Testing in May 2025.

 The TRACE system for emissions monitoring included acceptable rates of Carbon injection into the air pollution control (APC) system on both units, but the DCS recorded no Carbon flow on Unit 1 during D/F tests.

Figure 1 shows the historical D/F test results of the D/F tests performed since 2016. The results of the abbreviated test from the Voluntary 2024 Source Testing were well below the permit limit of 60 pg TEQ/Rm<sup>3</sup> and within the expected range based on the historical test results.



Figure 1 – Historic Test Results for Dioxins and Furans

### HDR Observations during the Voluntary Source Test

The testing schedule for the December 2024 Voluntary Source Test is included in Attachment A to this Technical Memorandum. Also included in Attachment A is a summary of the testing observed by HDR. HDR's role on-site was to observe Reworld's operations of the DYEC boilers and APC systems during test sampling, and to observe Alliance's sampling procedures and activities. All D/F testing was initially scheduled for December 3<sup>rd</sup> and 4<sup>th</sup> and HDR personnel had scheduled their visit to be on site for those dates. The testing began ahead of schedule, on December 2<sup>nd</sup>, and HDR was unable to observe this testing.

HDR observed the operations of the boilers and air pollution control systems and reviewed the one-minute DYEC operating data recorded by Reworld's distributive control system (or DCS) during the December 3<sup>rd</sup> and 4<sup>th</sup> emissions tests, to verify the DYEC was being operated under normal operating conditions during the test periods. Following is a summary of the key events and observations made by HDR during the sampling days at the DYEC. Attachment A shows the start and stop times of each test. Attachment B includes the average operating data for the periods associated with the D/F testing.

### Day 1: Monday, December 2<sup>nd</sup>

HDR was not on-site Monday, December 2<sup>nd</sup> for Runs 1 and 2 of the D/F tests on Units 1 and 2. Stack testing commenced at 9:10 and was completed at 19:10. Subsequent to the completion of testing Reworld decided to postpone D/F Run 3 on Unit 2 due to a feedchute pluggage that occurred on Monday, December 2<sup>nd</sup> at 21:20, the pluggage was cleared the same day at 23:22.

### Day 2: Tuesday, December 3rd

Stack testing commenced at 08:28 and was completed at 16:50. Tests included Run 3 for D/F and Run 1 for metals/particulates on Unit 1, and metals/particulates Runs 1 and 2 and HF Runs 1 through 3 on Unit 2. D/F Run 3 for Unit 2 was delayed due to operational issues associated with the feedchute,

- HDR observed 2 leak tests:
  - Unit 1 Metals/Particulate Run 1 during port switch
    - Probe removal from stack: 15:09
    - Probe insert into stack: 15:20
  - Unit 2 Metals/Particulate Run 2 during port switch
    - Probe removal from stack: 15:12
    - Probe insert into stack: 15:27

• The parameters below (data collected at 13:25 on December 3<sup>rd</sup>) were observed to be in normal range. Ammonia flow on Unit 1 seemed slightly below average but the NOx was being controlled, and the low ammonia is not of concern.

Parameter	Normal Range	Unit 1	Unit 2
Steam Load (kg/hr)	32,000-35,000	33,574	33,827
Ammonia (L/hr)	25-80	11.3	23.8
Carbon (kg/hr)	4.5-5.5	5.17	5.22
Steam Outlet Temp (°C)	495-510	506	496
Steam Pressure (bar)	86-90	90.3	90.4
Combustion Temps (°C)	>1,000	1292	1224
Baghouse dp (mBar)	10-20	20.1	14.1

\*Although Unit 1 baghouse dp was slightly higher than the normal range throughout testing, based on the stack test results the values did not present any levels of concern.

### Day 3: Wednesday, December 4th

Stack testing commenced at 09:00. Tests included Runs 2 and 3 for metals/particulates and Runs 1 through 3 for HF on Unit 1 and Runs 1 and 2 for PM10/2.5 and hydrocarbons Runs 1 through 3 on Unit 2.

- HDR observed 1 leak test:
  - Unit 1 Metals/Particulate Run 2 during port switch
    - Probe removal from stack: 10:34
    - Probe insert into stack: 10:43
- The parameters below (data collected at 10:51 on March 4<sup>th</sup>) were observed to be in normal range. Ammonia usage seemed slightly below average but is not of concern.

Parameter	Normal Range	Unit 1	Unit 2
Steam Load (kg/hr)	32,000-35,000	33,617	34,250
Ammonia (L/hr)	25-80	18.6	21.5
Carbon (kg/hr)	4.5-5.5	5.09	5.09
Steam Outlet Temp (°C)	495-510	507	495
Steam Pressure (bar)	86-90	90.33	90.45
Combustion Temps (°C)	>1,000	1288	1211
Baghouse dp (mBar)	10-20	20.4	15.5

HDR noted that Reworld's Rick Koehler was on-site throughout the testing period to assist in the coordination and to observe the Voluntary Source Testing.

Based on HDR's observations of the Voluntary Source Testing, Alliance conducted the testing in accordance with the applicable standards and procedures. Alliance was careful during each port change observed to ensure that the probe was not scraped inside the port during insertion and removal of the probe. In addition, sampling equipment was assembled properly, the ice used in the sample box was replenished in a timely manner, and all required leak checks were conducted and passed. After each completed test, the

sampling trains were transported to a trailer located outside the boiler building for recovery and clean up to avoid potential contamination at the test location. It should be noted that the actual clock times associated with each run, are slightly longer than the run lengths indicated in the test plan. This difference is due to the time required for Alliance to pull the probe out of the first port, leak check the sampling equipment and insert the probe into the second port. This is typical of stack sampling practices and is done in accordance with the test plan and approved procedures.

Attachment B provides a summary of the DYEC operating data recorded by Reworld's DCS during the D/F tests. Based on the operational data there appears to be an ongoing communication issue between the TRACE emissions monitoring system and the DCS. The TRACE system showed the carbon system was operating at a carbon flow rate in the 5-5.5 kg/hr rate while the DCS data showed a flow of zero throughout the full testing period. Reworld has previously indicated that this is a communication error between the two control systems and continues to investigate the issue.

Prior to the test period and continuing through the testing, Unit 2 experienced operational issues due to the condition of the feedchute. Reworld performed an investigation and inspection of the Unit 2 feedchute and feed table on December 10 to determine the best course of action to eliminate future upsets. Reworld has determined that a complete feedchute replacement is needed and plans to make the replacement during the March 2025 scheduled outage.

During the testing on Unit 2, the hourly average flue gas temperatures were above the minimum permit limit of 1,000 °C at all times. Graphs of the running 1-hour averages for the D/F test periods for Unit 1 and Unit 2 are provided in Attachment B.

As previously noted, HDR did not observe any other deviations from the approved test protocol or applicable stack test procedures and based on the operational data and HDR's observations, the boilers and APC equipment were generally operated under normal conditions during the testing. The Unit 2 feedchute does require maintenance and will be replaced in March 2025.

### **Summary of Results**

The results of the testing program, based on Alliance's March report, are summarized in Table 1 and Figures 2 and 3. Emissions of all pollutants are corrected to Reference conditions (25° C, 101.3 kP, dry basis, 11% oxygen), and as shown, were all below the ECA's Schedule "C" limits. As a part of HDR's review of the Alliance report, we completed a review of the data presented and calculations. There were no errors in calculations found during this review. HDR is also including the historical test results for PM, Mercury, Cadmium, and Lead from each voluntary and compliance test from 2017 to 2024 (Figures 2-7)

Doromotor	$L_{10}$ ;tc <sup>(1)</sup>	ECA	Un	it 1	Unit 2		
Parameter	Units	Limit	Result	% of Limit	Result	% of Limit	
Particulate Matter (PM) <sup>(2)</sup>	mg/Rm <sup>3</sup>	9	0.37	4%	0.39	4%	
Mercury (Hg) <sup>(2)</sup>	µg/Rm³	15	0.13	1%	0.099	1%	
Cadmium (Cd) <sup>(2)</sup>	µg/Rm³	7	1.08	15%	0.55	8%	
Lead (Pb) <sup>(2)</sup>	µg/Rm³	50	0.29	1%	0.39	1%	
Hydrochloric Acid (HCl) <sup>(3)(4)</sup>	mg/Rm <sup>3</sup>	9	0.6	7%	2.1	23%	
Sulphur Dioxide (SO <sub>2</sub> ) <sup>(3)(4)</sup>	mg/Rm <sup>3</sup>	35	7.2	21%	1.8	5%	
Nitrogen Oxides (NO <sub>x</sub> ) <sup>(3)(4)</sup>	mg/Rm <sup>3</sup>	121	111	92%	109	90%	
Carbon Monoxide (CO) <sup>(3)(5)</sup>	mg/Rm <sup>3</sup>	40	13.3	33%	15.8	40%	
Total Hydrocarbons (THC) <sup>(6)</sup>	ppm	50	1.6	3%	0.4	1%	
Dioxins and Furans <sup>(7)</sup>	pg TEQ/Rm <sup>3</sup>	60	2.25	4%	2.63	4%	

#### Table 1 – Summary of December 2024 Voluntary Source Test Results

(1) R means the values are adjusted to reference conditions (i.e., dry basis, 25°C, 101.3 kPa, 11% O<sub>2</sub>)

(2) average of three runs

(3) based on CEM data provided by Reworld

(4) maximum calculated 24-hour rolling arithmetic average measured by the DYEC CEMS during the period from December 2 to December 5, 2024.

(5) maximum calculated 4-hour rolling arithmetic average measured by the DYEC CEMS during the period from December 2 to December 5, 2024.

(6) average of three one hour tests measured at an undiluted location, reported on a dry basis expressed as equivalent methane (7) average of three test runs for Unit 1 and two test runs for Unit 2 calculated using the NATO/CCMS (1989) toxicity equivalence factors and the full detection limit for those isomers below the analytical detection limit



Figure 2 - DYEC Test Results as a Percent of ECA Limit



Figure 3 – 2024 Test Results for Dioxins and Furans

Figure 4 – Historical Particulate Matter Results





Figure 5 - Historical Mercury Results







### Figure 7 - Historical Lead Results

### **Conclusions and Recommendations**

HDR has completed our review of the results of the air emissions testing performed during the DYEC Fall 2024 Voluntary Test. Representatives from HDR were present at the DYEC on December 3<sup>rd</sup> through December 4<sup>th</sup>, 2024, to observe the sampling procedures and facility operations during emissions testing. HDR observed Alliance following the approved stack sampling procedures and test methods. HDR also observed Reworld's plant personnel operating the DYEC under normal operating conditions and in accordance with acceptable industry operating standards. During the testing period there were some minor operational upsets with Unit 2 that were a result of the plugging and damage of the feedchute. As a result, only two D/F test runs were completed for Unit 2. The feedchute is scheduled to be replaced during the March 2025 outage. Based on the results summarized in Alliance's test report (dated March 3, 2025), the air emission results of the Fall 2024 Voluntary Test demonstrated that the DYEC operated below the ECA's Schedule "C" limits.

### Attachments:

Attachment A – Stack Test Schedule and Summary of Testing Observed by HDR Attachment B – Summary of Operating Data During Dioxins/Furans Tests

# Attachment A: Final Stack Test Schedule & Summary of Testing Observed by HDR.

### Summary of Testing Schedule

### Day 1: Monday, December 2<sup>nd</sup>

Unit	Tost	Ru	n 1	Run 2			
Onit	Test	Start	Stop	Start	Start		
Unit 1	Dioxin/Furan	09:10	14:03	15:03	19:10		
Unit 2	Dioxin/Furan	09:45	13:54	14:48	18:55		

### Day 2: Tuesday, December 3rd

Unit	Tost	Ru	n 1	Ru	n 2	Run 3		
Onit	1631	Start	Stop	Start	Start	Stop	Stop	
Linit 1	Dioxin/Furan	-	-	-	-	08:28	12:37	
Unit	Metals/Particulates	13:39	16:50					
Linit 2	Metals/Particulates	09:20	12:33	13:42	16:57			
Unit 2	HF	09:12	10:12	11:07	12:07	12:14	13:14	

#### Day 3: Wednesday, December 4th

Unit	Test	Ru	n 1	Ru	n 2	Run 3		
Onic	1631	Start	Stop	Start	Start	Stop	Stop	
Linit 1	Metals/Particulates	-	-	09:04	12:13			
Unit	HF	09:07	10:07	10:46	11:46	11:57		
Linit O	PM10/2.5	09:15	11:17					
Unit 2	Hydrocarbon	09:00	10:00	10:15	11:15			

# Attachment B: Summary of Operating Data During the Dioxins/Furans Tests

		Boiler 1		Boiler 2			
	Run 1	Run 2	Run 3	Run 1	Run 2	Run 3	
Operating Parameter	2-Dec	2-Dec	3-Dec	2-Dec	2-Dec	N/A	
Steam (kg/hr)	33,099	33,174	33,267	33,295	33,219		
Steam temp	501	503	499	491	492		
Primary Air Flow	29,987	29,988	30,139	32,734	31,488		
Overfire Air Flow	5,987	7,261	6,949	6,491	5,757		
Tertiary Air (Fresh LN Air)	8,486	8,448	8,437	8,785	8,765		
Tertiary air temperature °C	36.8	37.9	36.6	37.3	38.8		
Lime Injection (kg/hr)	134.5	134.8	135.0	137.4	137.1		
Ammonia Injection Rate (liters/hr)	0.3	0.5	0.3	0.4	0.4		
Carbon Injection (kg/hr) <sup>2</sup>	0.0	0.0	0.0	5.2	5.1		
Combustion air preheat temp	116.1	112.6	123.8	130.0	130.0		
Average Combustion Zone Temp °C	1,172	1,143	1,160	1,077	1,050		
Superheater #3 Flue gas inlet Temp °C	471	473	470	495	498		
Economizer Flue Gas Inlet Temp °C	337	339	337	337	337		
Economize Flue Gas Outlet Temp °C	169	172	169	173	175		
Quench Reactor Outlet Temp °C	153	153	151	152	150		
Dry Scrubber Outlet (BH Inlet) Temp °C	144	143	142	143	141		
Baghouse Outlet Temp °C	139	138	137	138	137		
Tertiary Air Header Pressure mbar	60	60	60	60	60		
Tertiary Air Left mbar	25	26	25	28	28		
Tertiary air Right mbar	29	28	28	28	28		
Baghouse Differential Pressure mbar	18	19	18	14	14		
Oxygen (%) - Boiler Outlet	7.3	7.4	7.7	8.0	7.9		
Oxygen (%) - Baghouse Outlet	8.6	8.4	8.8	9.0	8.9		
CO -Boiler Outlet - mg/Rm <sup>3</sup>	14.2	17.6	14.4	13.5	13.4		
CO - Baghouse Outlet - mg/Rm <sup>3</sup>	17.3	11.2	12.3	13.5	13.0		
NOx - mg/Rm <sup>3</sup>	109.1	111.9	107.3	109.2	109.5		
NH3 mg/Rm <sup>3</sup>	6.2	7.5	8.1	11.0	11.0		
Flue gas moisture	23%	22%	23%	18%	19%		
Calculated throughput (tonne/day) <sup>4</sup>	209	210	210	210	210		
Outlet Stack Outlet/Stack Dioxin - NATO - (pg TEO/Rm³)	2.67	2.26	1.82	2.90	2.35		

### December 2024 Voluntary Dioxins Testing Operations Data and Results<sup>1</sup>

<sup>1</sup>Average Unit data for the periods corresponding to the test run times.

<sup>2</sup> Communication error between TRACE and DCS: Unit 1 Carbon flow

<sup>3</sup>Equivalent daily throughput rate based on the average Specific Steaming Rate (SSR) in December 2024 (3.8 kg steam/kg waste)



Figure 8 – Unit 1 D/F Runs 1 and 2 Furnace Temperature 1-Hour Averages

Figure 9 – Unit 1 D/F Run 3 Furnace Temperature 1-Hour Averages





Figure 10 – Unit 2 D/F Runs 1 and 2 Furnace Temperature 1-Hour Averages

### Attachment 4

### Table 1: DYEC Source Test Emission Results 2020-2024

Parameter	Emission limit	Spring Volu	g 2020 ntary	Fall : Comp	2020 liance	Spring 2021 Fall 2021 Voluntary Compliance		Spring 2022 Voluntary		Fall 2022 Compliance		Spring 2023 Voluntary		Fall 2023 Compliance		Spring 2024 Compliance		Fall 2 Volui	2024 ntary		
		Boiler 1	Boiler 2	Boiler 1	Boiler 2	Boiler 1	Boiler 2	Boiler 1	Boiler 2	Boiler 1	Boiler 2	Boiler 1	Boiler 2	Boiler 1	Boiler 2	Boiler 1	Boiler 2	Boiler 1	Boiler 2	Boiler 1	Boiler 2
Cadmium	7 µg/Rm³	0.056	0.11	0.075	0.056	0.068	0.045	0.064	0.02	0.023	0.39	0.063	0.03	0.12	0.08	0.83	0.37	0.09	0.057	1.08	0.55
Carbon Monoxide	40 mg/Rm <sup>3</sup>	15.2	11.4	11.4	14.1	12.6	12.7	9.7	11.7	10.7	15.3	9.1	9.4	9.0	16.10	8.1	9.9	6.1	8.0	13.3	15.8
Dioxins and Furans	60 pgTEQ/Rm³	1.82	2.53	28.7	7.26	4.10	7.35	14.7	2.56	7.28	4.10	3.68	3.91	6.61	9.18	10.9	4.43	2.3	1.88	2.25	2.63
Hydrogen Chloride	9 mg/Rm <sup>3</sup>	4.5	5.1	3.8	3.2	3.1	2.9	2.2	1.8	1.0	3.6	0.4	3.8	0.8	3.1	1	3.1	0.3	2.2	0.6	2.1
Lead	50 µg/Rm³	0.55	0.61	0.37	0.34	0.44	0.32	0.46	0.17	0.55	0.28	0.23	0.15	0.28	0.15	0.56	0.25	0.31	0.26	0.29	0.39
Mercury	15 µg/Rm³	0.13	0.1	0.34	0.045	0.086	0.081	0.053	0.05	0.089	0.09	0.093	0.09	0.09	0.09	0.09	0.08	0.16	0.58	0.130	0.099
Nitrogen Oxides	121 mg/Rm <sup>3</sup>	109	109	110	110	109	110	111	110	110	110	112	111	110	110	109	111	111	108	111.0	109.0
Organic Matter	50 ppmdv	0.2	1.7	0.5	1.1	1.0	0.4	0	0	0.7	1.5	0.1	0.3	0.03	0.4	0.5	0.4	0.1	0.2	1.6	0.4
Sulphur Dioxide	35 mg/Rm <sup>3</sup>	0	0	0.1	0.1	0.3	0.7	0.3	0.2	0.02	0.9	0.5	0.6	0.02	0.13	0	0.03	0.2	0.39	7.20	1.80
Total Suspended Particulate Matter	9 mg/Rm <sup>3</sup>	1.14	1.04	2.6	2	0.78	0.25	0.48	0.31	0.87	1.58	0.27	0.2	0.20	0.24	0.57	0.43	1.31	1.48	0.37	0.39

### Attachment 5

### Table 2: Comparison Table: 2024 Voluntary Source Test Results Compared to ECA limits and Ontario A-7 Guideline

Parameter	Units	Boiler #1	Boiler #2	DYEC Average	DYEC ECA limit	% below ECA limit	Ontario A-7 Guideline	% below A7	EU (2010/75/EU)	% below EU
Nitrogen Oxides	mg/ Rm <sup>3</sup>	111.0	109.0	110.0	121	9.1%	198	44.4%	183	39.9%
Total Suspended Particulate Matter	mg/ Rm³	0.37	0.39	0.38	9	95.8%	14	97.3%	9	95.8%
Sulphur Dioxide	mg/ Rm <sup>3</sup>	7.20	1.80	4.50	35	87.1%	56	92.0%	46	90.2%
Hydrogen Chloride	mg/ Rm <sup>3</sup>	0.6	2.1	1.35	9	85.0%	27	95.0%	9	85.0%
Carbon Monoxide	mg/ Rm³	13.3	15.8	14.6	40	63.6%	40	63.6%	46	68.4%
Mercury	µg/Rm³	0.130	0.099	0.115	15	99.2%	20	99.4%	46	99.8%
Cadmium	µg/Rm³	1.08	0.55	0.82	7	88.4%	7	88.4%	n/a	n/a
Lead	µg/Rm³	0.29	0.39	0.34	50	99.3%	60	99.4%	n/a	n/a
Dioxin/Furans	pg TEQ/Rm <sup>3</sup>	2.25	2.63	2.4	60	95.9%	80	97.0%	92	97.3%

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 2564



# The Regional Municipality of Durham Information Report

From:	Commissioner of Community Growth and Economic Development
Report:	#2025-INFO-49
Date:	June 6, 2025

### Subject:

Invest Durham Annual Report 2024

#### **Recommendation:**

#### Receive for information

#### **Report:**

#### 1. Purpose

1.1 The purpose of this report is to provide Council with a brief overview of the Region's Economic Development and Tourism Division's 2024 activities and programs. Included as Attachment #1 is the Invest Durham Annual Report 2024.

### 2. Background

- 2.1 The Annual Report summarizes activities undertaken by the various sections of the Division which include Business Development and Investment, Agri-Food and Rural Economic Development, Business Advisory Centre of Durham, Marketing, and Tourism.
- 2.2 In addition, the Annual Report provides an economic snapshot, and contains spotlights on specific initiatives, sector development projects, highlights from programs and activities, as well as an awards list.

### 3. Previous Reports and Decisions

3.1 A Year-in-Review report from the Economic Development and Tourism Division is provided annually.

### 4. Relationship to Strategic Plan

- 4.1 This report aligns with/addresses the following Strategic Direction(s) and Pathway(s) in Durham Region's 2025-2035 Strategic Plan:
  - a. Connected and Vibrant Communities
    - C6. Continue to revitalize and transform downtowns into hubs of economic, social, and cultural connection.
    - C7. Create accessible, lively, and culturally welcoming public spaces, including opportunities to access nature.
  - b. Resilient Local Economies
    - R1. Attract and retain quality employers that strengthen key economic sectors, including energy and technology.
    - R2. Support the growth of new business startups and small to medium local businesses.
    - R3. Develop, attract, and support a skilled and qualified workforce, including youth and newcomers.
    - R4. Protect and strengthen the local agriculture sector and food supply chains.
    - R5. Cultivate and promote local arts, culture, quality of place, and tourism that embrace urban excitement and country charm.
  - c. Strong Relationships
    - S1. Enhance inclusive opportunities for community engagement and meaningful collaboration.
    - S2. Build and strengthen respectful relationships with First Nations, Inuit, Métis, and urban Indigenous communities.
    - S3. Collaborate across local area municipalities, with agencies, nonprofits, and community partners to deliver co-ordinated and efficient services.
    - S4. Advocate to the federal and provincial government and agencies to advance regional priorities.

- 4.2 This report aligns with/addresses the following Foundation(s) in Durham Region's 2025-2035 Strategic Plan:
  - a. People: Making the Region of Durham a great place to work, attracting, and retaining talent.

### 5. Conclusion

- 5.1 The Invest Durham Annual report will continue to be produced on an annual basis.
- 5.2 This report will be delivered to Durham Region area municipalities.

#### 6. Attachments

Attachment #1: Invest Durham Annual Report 2024

Respectfully submitted,

Original signed by

Elaine C. Baxter-Trahair Chief Administrative Officer

## Attachment 1







PRODUITS A

# 2024 Year in Review

9

- Economic Snapshot
- Business Investment and Attraction
- Business Investment Highlights
- Entrepreneurship and Innovation
- Business Advisory Centre of Durham
- Agriculture and Rural Economic Development
- Marketing and Tourism
- Awards



### Durham's Momentum is Real - and It's Accelerating

In 2024, Invest Durham proudly delivered Year 2 of **Ready Set Future: A PLACE Blueprint for Durham**, our bold and strategic roadmap for economic development and tourism. The results are in. Durham's time is here.

This past year, we connected vision with action, hosting high-impact events like our Realtor and Developer Social. This gathering of top-tier commercial real estate leaders, developers, municipal officials, and economic strategists was more than a networking opportunity—it was a catalyst. It spotlighted Durham's booming potential and built the kinds of relationships that turn big ideas into transformative investments.

Durham's reputation is now resonating far beyond our borders. We were recognized by Site Selection Magazine as one of the best places to invest in Canada in 2024. This is an international validation of what we already know: Durham Region is a magnet for growth.

That growth is driven by our leadership in clean energy, anchored by major investments from companies like Black & McDonald and AtkinsRéalis. The momentum continues with the upcoming opening of Ontario Power Generation's headquarters which further reinforces Durham's identity as the Clean Energy Capital of Canada.

Our impact stretches across the entire region, from urban centres to rural townships. In the north, our Agriculture-Related and On-Farm Diversified Uses initiative is laying the groundwork for long-term job creation and rural economic resilience.

Meanwhile, Durham's creative and cultural identity is flourishing. With growing media coverage, thriving festivals, and our work to catalyze our music scene, we've helped place our independent restaurants and unique destinations in the spotlight, bringing new energy to our brand and new visitors to our region.

We also looked beyond 2024, investing significant effort into planning a powerful international presence. In partnership with NGen Canada, we worked with local post-secondary institutions, all eight municipalities, the Automotive Parts Manufacturers Association and Spark Centre to build a dynamic delegation for Hannover Messe 2025 and became poised to amplify Durham's voice on the global stage.

Our investment pipeline tells the story of a region on the rise. Volkswagen Canada's expansion in Ajax. Major moves by Lactalis and Martin Brower in Oshawa's business park. Tourism game-changers like the Porsche Experience Centre Toronto-Pickering and Volt Raceway in Bowmanville. Durham Region is not just participating in Ontario's economic growth. We're driving it.



Simon Gill Director, Economic Development and Tourism



# **Economic Snapshot**



# **Booming Growth**

- Durham Region's population grew nearly 12 per cent between 2021 to 2024, reaching an estimated 780,300, and is expected to grow to 1,300,000 by 2051.
- Approximately 915 new businesses opened in Durham Region in 2024.



# In Demand

- Plans are underway to build four new GO transit stations for the Lakeshore East GO Extension, opening new opportunities for transportation and development.
- Durham Region named one of Canada's best places to invest by Site Selection Magazine.



# **Talented**

- Ontario Tech University named 2023 and 2024 Canadian Research University of the Year.
- Durham College opened the Vanhaverbeke Family EV Training Centre and named one of Canada's top 50 Research Colleges.



# **Innovating the Future**

- Trent University Durham GTA launched a new program in Artificial Intelligence, while celebrating 50 years in our community.
- Durham Region recognized as a fully certified Intelligent Community by the Intelligent Community Forum (ICF), a designation provided to communities that are poised for investment, and set to succeed economically, socially, and culturally.



# **Business Development and Investment Attraction**

In 2024, Invest Durham focused on priority clusters as defined in the division's strategic plan Ready Set Future. As a result, 86 per cent of inquiries handled by the team were in the targeted sectors. Strong relationships with important partner organizations were bolstered, further creating awareness of Durham's reputation and value proposition for investment.

99 leads remain open **Responded to 161 Business** Investment Inquiries

Directly landed two investments: Black & McDonald (pictured above) and CTNS

48 pitch proposals and eight international investment attraction missions

Signed a Memorandum of **Understanding with Business** Tampere

64 industry events, conferences and trade shows

> **21 inbound delegations** and site tours

### **Commercial and Industrial Realtor and Developer Social**

We held a Realtor-Developer Social networking event in Toronto, and showcased a portfolio of 41 commercial and industrial properties available for development in Durham Region, to the real estate and development community, primarily operating in the Toronto area.





# **Business Investment Highlights**

The following non-exhaustive list details some key new businesses, strategic investments, and retained/expanded businesses in Durham Region in 2024. Please note that this list may include opportunities that our team did not have the opportunity to directly support.

Algoma Orchards – Facility Expansion, Clarington

AtkinsRéalis - New Offices, Pickering

Black & McDonald - New Offices, Pickering

**Business Point –** Corporate Centre Development, Pickering

**Continued Downtown Revitalization** - RED Grant Funding, Uxbridge

Farm Operation Expansions – Examples include a Poultry Barn Build (Schillings Family), Whitby, and Sheep Barn Build (Found Family), Clarington

**Lactalis Canada –** Facility Opened, Oshawa

**Lakeridge Logistics Centre –** 1.2m sq. ft. Zero Carbon Distribution Centre, Ajax

Lightcaster Brewery – New Brewery Opening, Clarington

Market at 70 King – Food Hall Opened, Oshawa

Martin Brower of Canada – Facility Opened, Oshawa

**Ontario Power Generation –** New Corporate HQ Renovations, Oshawa (Completion: Summer 2025)

### Ontario Power Generation –

Research & Development Facility, Ajax (Occupancy Expected May 2025) **Ontario Power Generation** – Small Modular Reactor Development, Clarington

**Ontario Power Generation** – Pickering Nuclear Generating Station – Refurbishment Announced, Pickering

**Pingle's Farm –** Animal Education Barn Addition (Agri-Tourism), Clarington

**Planning Grant –** New Whitby Hospital Secured, Whitby

**Porsche Experience Centre Toronto –** Opening Summer 2025, Pickering

**Port Royal Mills –** New Facility Secured (Opening 2025), Port Perry

**Prompt Assembly and Packaging Inc. –** Expansion to New Location, Ajax

**Sky Canoe –** Facility Completed, Mississaugas of Scugog Island First Nation

**Shandex Group –** New Warehouse Facility, Ajax

**Triovest –** Bay Ridges Industrial Centre Development, Pickering

Triforest Inc. - Planned Expansion, Ajax

**Volkswagen Canada –** 115,000 sq. ft. Expansion (Training, Storage, Shipping), Ajax (Site Plan Approved 2024)

**Volt Raceway –** New Entertainment Centre Opened, Clarington

Whitby Health Centre – Facility Opening, Whitby



# **Entrepreneurship and Innovation**

Invest Durham supported a wide range of innovation and entrepreneurship organizations and initiatives, including:

- Spark Centre
- 1855 Technology Accelerator
- Business Advisory Centre of Durham (BACD)
- Brilliant Catalyst Innovation Challenge
- 1855 and 360Insights Hackathon
- Collision Conference
- Durham Entrepreneurship Ecosystem Forum (DEEF)
- Durham Region International Film
   Festival Emerging Filmmaker Incubator
   Hold The Sauce was the 2024 winner

- OPEN.innovate Creative Arts Incubator of Durham Region
- Durham Regional Technology Development Site, a part of the Ontario Vehicle Innovation Network (OVIN), a provincial network of advanced mobility support organizations. The local partnership includes the Spark Centre, Ontario Tech University, Durham College and Regional Municipality of Durham.
- Launched the Agri-Food Gateway Pilot Program with NRC-IRAP and Durham College, providing agricultural training.

### NGen Roadshow

We hosted the NGen Roadshow at ACE Core Research Facility at Ontario Tech University. NGen is Canada's Manufacturing Supercluster and the roadshow was designed to showcase Canada's role as the partner country for Hannover Messe 2025.



Hannover Messe is one of the largest industrial tradeshows in the world, attracting more than 130,000 attendees and 4,000 businesses. Invest Durham, Durham's local municipalities, along with Durham College, Ontario Tech University, Trent University Durham GTA, Spark Centre and Automotive Parts Manufacturers Association-Project Arrow collaborated to showcase Durham Region at Hannover Messe in 2025.



# **Business Advisory Centre of Durham (BACD)**

### **Celebrating 25 Years of Empowering Entrepreneurs in Durham Region**

The Business Advisory Centre of Durham (BACD) proudly marked its 25th anniversary celebrating a legacy of empowering entrepreneurs and small businesses in Durham Region. BACD transitioned from a standalone office to join the Invest Durham team at the Regional Headquarters, strengthening its ability to serve the local business community.

### How BACD Supports Businesses

BACD is more than just a resource—it's a launchpad for entrepreneurial success.

- Business Advisory Services: Personalized consultations with business advisors on business planning, marketing, operations, and more.
- Workshops and Training Programs: Business planning, financial management, digital marketing and more.
- Funding and Grants: BACD helps navigate funding opportunities, including government grants, loans, and microfinancing programs. Programs like Starter Company Plus and Summer Company—funded by the Ministry of Economic Development, Job Creation and Trade—offer training, grant funding and mentorship to new and young entrepreneurs.

139 businesses created with BACD's support 228 jobs created 48 grants totaling \$200,000 issued — supported by the Ministry of Economic Development, Job Creation and Trade

- Starter Company Plus: \$135,000 granted to 28 businesses.
- Summer Company: \$60,000 granted to 20 student-run businesses.
- Do It In Durham Entrepreneurship Week: 62 events with 1224 attendees.



100

attendees at

the Precision

Durham Farm

Connections

Agriculture Day hosted with

# **Agriculture and Rural Economic Development**



#### Grants:

- Completed a successful Rural Economic Development (RED) grant for the Uxbridge Downtown Revitalization, in partnership with the Township of Uxbridge.
- Supported the Durham Federation of Agriculture in securing a Revive Grant from the Ontario Federation of Agriculture to fund the 2025 Durham Agriculture Leadership Program.

#### **Key Initiatives and Partnerships:**

- Completed the North Durham Labour Force Study, highlighting local labour market trends.
- Partnered with Durham College Photography Program to capture imagery of nine North Durham businesses for future marketing.
- Worked with the Township of Scugog and a hired consultant to develop the Scugog Business Program Final Report and 2025 Action Plan.
- Created building, business, and parcel inventories for downtowns and employment lands in North Durham.
- Updated and expanded community profiles for each township, including refreshed content, interactive data tools, and improved website integration.
- Engaged an external planning consultant for a regional study on agriculture-related and on-farm diversified uses in collaboration with Scugog, Uxbridge, and Brock—a study aimed at modernizing land-use policies in north Durham, while protecting farmland.
- Co-created the "From Farm to Plate" apple value chain video series with Durham Farm Connections to raise public awareness about local food systems.



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# **Marketing and Tourism**

### **Marketing Activities – Invest Durham**

Promoting Durham Region for new investment and job creation.



### 3,625 subscribers to the Weekly Careers Round Up LinkedIn Newsletter

### Key Initiatives and Partnerships:

- The Invest Durham website underwent a comprehensive overhaul—introducing innovative digital tools, strategically aligning content with the Ready Set Future plan, and executing a site-wide content modernization to better serve investors and stakeholders.
- The digital refresh included the redevelopment of the Signature Sites marketing package—a promotional tool that showcases high-potential land, buildings, and investmentready properties. This package was promoted through multi-channel digital campaigns, high-profile industry events, and targeted outreach.



- The team successfully created and launched a compelling International Value Proposition, a key deliverable that fulfilled Action 1.6 of the 2023–2027 Marketing Plan—requiring collaboration, in-depth market research, and strategic messaging tailored to global investors.
- Invest Durham's marketing team played a hands-on role in planning, promoting, and producing a wide range of strategic events—including the Realtor Social, NGen Roadshow, film and television industry gatherings, and Music Region program—driving engagement, regional visibility, and economic opportunity across sectors.

### **Durham Tourism**

### Facebook

8,400 total audience 435,904 impressions 18 per cent growth

### Instagram

0)

21 960 followers 55,539 engagements 61 per cent follower growth

### 8,372 monthly visitor e-newsletter subscribers 4,543 monthly industry e-newsletter subscribers

#### **Strategic Planning:**

Invest

Durham

- Completed the Durham Tourism Five-Year Action Plan, formally endorsed by the Community Growth and Economic Development Committee.
- Initiated a comprehensive review of website content to enhance SEO and user experience, resulting 301,000 page views in 2024.
- Supported a refreshed Uxbridge Community Tourism Plan in partnership with Central Counties Tourism.
- Developed and launched the Scugog Tourism visitor tracking initiative.

### Marketing and Campaigns:

- Launched the innovative Out of Office campaign, achieving 1.4 million impressions across billboards, print, social media, and Spotify platforms.
- Revitalized the Durham Tourism event activation toolkit by procuring a portable, customizable photo booth to create engaging, sustainable onsite experiences.





### **Event Support and Community Engagement:**

- Supported and promoted the Springtide Music Festival, Culture Days, Convergence Art and Music Festival, Oshawa Student Orientation, Uxbridge Holiday Trail, Canoe the Nonquon, Small Town BIG, Uxbridge Scottish Festival, Scugog Beer and Cider Festival, Mississaugas of Scugog Island First Nation Pow Wow, Lucy Maud Montgomery 150 Celebrations, Sunderland Maple Syrup Festival, and more.
- Supported the creation of the Durham Region Arts and Culture Mapping Report in partnership with grassroots organizers.
- Formed a partnership with North Durham Pride, supporting events in Brock, Scugog, and Uxbridge, and hosted a Rainbow Registered info session—helping two businesses achieve accreditation.
- Engaged post-secondary students through guided walking tours, orientation support with Durham Region Transit, and participation in student events.
- Delivered Shop in Durham Week, featuring a flag-raising and shop-local campaign to promote downtown cores and small businesses across the region.



### **Rural Tourism Development**

- Promoted business-led rural tourism initiatives including Sideroads of Scugog, Backroads of Brock, and the Leaskdale Loop to drive increased visitation to northern communities. An influencer tour hosted in partnership with Central Counties Tourism funding brought a bus of 12 social media influencers to six destinations in rural Durham Region.
- Collaborated with Durham Farm Fresh and Chef Alex Page to deliver three on-farm culinary experiences, showcasing the region's agricultural assets.




#### Gather at the Farm

Durham Tourism and Durham Farm Fresh collaborated to launch this monthlong campaign. The program included print and digital advertising, a culinary activation and promoted fall activities and events at farms across the region. The campaign reached more than 800,000 impressions and the landing page saw more than 15,000 visitors.



#### **Rural Cycle Tourism Program**

Durham Tourism launched 13 on-road rural cycling loops in the Townships of Brock, Scugog and Uxbridge, and the Municipality of Clarington. The routes are promoted on Ride with GPS and Strava at DurhamTourism.ca/cycling. The program was launched with an event at The Nourish Community Hub in Cannington.

#### **Sport Tourism**

- Submitted a successful bid for 2026 Quadball National Championship with the City of Oshawa.
- Supported events, including 2024 Quadball Canada National Championship, 2024 U SPORTS Men's Soccer Championships, Canadian Police Curling Championship, HiSports CPA Pro Tour Pickleball Championship, Baton Canadian Championship, 2024 OFSAA Hockey Championships, 2024 OUA Baseball Championship, Ontario Tech Carriage Cup, and the Ontario Lacrosse Festival.





#### **Creative Industries: Film and Television**

Durham was host to 69 feature films, TV series, commercials and documentaries generating 102 film permits. Projects included The Way Home, Reacher, Fubar, Level 2, Fairview, Accused, Tall Pines, Bet, Overcompensating, Twisted Metal, Motorheads, Mistletoe Murders, Purgatory, and A Novel Christmas.



21 new filming locations added to the Film Durham and Ontario Creates Digital Library.



80 attendees at the Locations Seminar.



856 attendees and 22 partners at 2024 Film and Television Industry Career Fair.

23 U.S. and UK production studio executives, academia and companies toured Durham's film studios, backlot and MRC studio.

# 68 film-related investment inquiries

### Durham Region International Film Festival (DRIFF) 2024:

657 attendees (31 per cent tourists) attended the Durham Region International Film Festival in 2024. 89 films were submitted in six categories, and 17 films were screened across three venues with 27 sponsors and 20 Emerging Filmmaker Incubator applicants.

#### Music

- Hosted three Durham Music Industry Forum event and promoted industry survey.
- Events hosted across three venues with nine performers and a keynote speaker.
- 360 music stakeholders participated in roundtable discussions.
- 286 Durham Music Industry Survey respondents.







## Awards

#### **Economic Development Awards**

• Bronze 2024 Excellence in Economic Development Award in the Special Event Category for Durham at Collision, presented by the International Economic Development Council (IEDC)

#### MarCom Awards:

- Invest Durham and Durham Tourism Marketing Team, Team's Body of Work Achievement – Platinum Winner
- Invest Durham Innovation and Inclusivity blog series Platinum Winner
- Durham Tourism E-newsletter Refresh Gold Winner
- Durham Tourism OOO Campaign Honourable Mention
- 10 Ways To Have A Brat Summer In Durham Region Honourable Mention

#### **Viddy Awards:**

- M & L Motors Cafe, Durham Tourism Instagram Reel Gold Winner
- Pink Coffee Trailer, Durham Tourism Instagram Reel Gold Winner
- Out of Office, Durham Tourism Instagram Reel Honourable Mention Winner





Economic Development and Tourism Office Durham Region, Ontario, Canada 605 Rossland Road East Whitby, Ontario L1N 6A3

+1-905-668-7711 InvestDurham.ca

If this information is required in an accessible format, please call 1-800-706-9857 extension 2619. Page 75 of 122



The Regional Municipality of Durham

Works Department

## Memorandum

Date: June 6, 2025
To: Regional Chair Henry and Members of Regional Council
From: Ramesh Jagannathan, MBA, M.Eng., P.Eng., PTOE, Commissioner of Works
Copy: Elaine Baxter-Trahair, Chief Administrative Officer Andrew Evans, M.A.Sc., P.Eng., Director, Waste Management Services
Subject: Durham York Energy Centre Quarterly (Q4 – 2024) Long-Term Sampling System Report

The attached report for the fourth quarter (Q4) of 2024 provides details with respect to data related to the Long-Term Sampling System (LTSS) at the Durham York Energy Centre (DYEC), referred to as the AMESA system.

This report includes AMESA data collected from October 21, 2024, to January 17, 2025, and is structured as follows:

- 1. Sections 1 and 2 provide background,
- 2. Sections 3 to 8 provide specific quarterly AMESA data,
- 3. Section 9 provides ambient air data for the same time period.

#### End of Memo

Attachment: DYEC LTSS Quarterly (Q4 – 2024) Report (October 2024 - January 2025)



# Durham York Energy Centre Long-Term Sampling System Quarterly (Q4) Report

# October 2024-January 2025

Prepared by

The Regional Municipality of Durham

#### **Table of Contents**

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9.	Ambient Air Dioxins and Furans Results–Fourth Quarter (Q4) 2024 8

#### 1. Introduction

This report provides additional details with respect to the reporting of operational data related to the AMESA Long-Term Sampling System (LTSS) for dioxins and furans at the Durham York Energy Centre (DYEC).

This report covers the fourth quarter (Q4) of 2024 and includes AMESA data collected from October 21, 2024 to January 17, 2025.

#### 2. Background

To meet the requirements of Environmental Compliance Approval (ECA) Condition 7(3), a continuous sampling system (the Adsorption Method for Sampling dioxins and furans (AMESA) LTSS) is installed on each of the two boiler units at the DYEC to sample dioxins and furans.

The operation of the AMESA system was initiated in 2015 and has been maintained in accordance with guidance from the AMESA manufacturer, the North American vendor ENVEA, and the AMESA Technical Manual.

The AMESA system is used only for the purpose stated in ECA Condition 7(3), which relates to dioxins and furans emissions trend analysis and evaluation of Air Pollution Control equipment performance. The AMESA results alone do not constitute a compliance point for the facility operations.

ECA Condition 7(3), Testing, Monitoring and Auditing Long-Term Sampling for dioxins and furans, states:

- a) The Owner shall develop, install, maintain, and update as necessary a long-term sampling system, with a minimum monthly sampling frequency, to measure the concentration of dioxins and furans in the Undiluted Gases leaving the Air Pollution Control (APC) Equipment associated with each boiler.
- b) The Owner shall evaluate the performance of the long-term sampling system in determining dioxins and furans emission trends and/or fluctuations as well as demonstrating the ongoing performance of the APC Equipment associated with the boilers.

AMESA results are available at the site when requested by the Ministry of Environment, Conservation and Parks (MECP) and reported to the MECP as part of the Annual Report required by ECA Approval Condition 15 and posted to the DYEC website. As the results of the LTSS AMESA sampling are reported annually as a 12-month rolling average to the MECP and contained in the Annual Report, a request from the public was suggested to provide more frequent updates. In 2021, Regional Council issued a directive to enhance the frequency of updates. Hence, verified, and calculated results for the AMESA sampling runs for both boiler units are prepared quarterly. These reports are prepared and subsequently published on the website.

#### 3. Cartridge Replacement Schedule

The AMESA sampling cartridge is placed in situ for approximately 30 days in each boiler unit before it is removed and sent to the laboratory for analysis. As each boiler unit AMESA system is independent, the cartridge duration may differ between the two units due to alternating maintenance activities.

Unit	Run	Start Date	End Date	Duration (days)
1	100	October 21, 2024	November 11, 2024	21
2	100	October 21, 2024	November 11, 2024	20
1	101	November 22, 2024	December 2, 2024	8.5
2	101	November 11, 2024	December 2, 2024	20
1	102	December 2, 2024	December 3, 2024	1
2	102	December 2, 2024	December 3, 2024	1
1	103	December 16, 2024	January 17, 2025	28.5
2	103	December 16, 2024	January 17, 2025	17.7

#### Table 1: AMESA Cartridge Replacement Schedule

Note 1: The cartridge duration times may differ even though the start and end dates are the same for both boiler units.

Note 2: No AMESA sampling cartridge was in place during the outage from October 1 to October 15, 2024. Note 3: Run 102 for Boilers 1 and 2 was carried out concurrently with the source testing for dioxins and furans.

#### 4. Laboratory Analysis

No issues were identified with the AMESA sample cartridges or the analysis at the laboratory; however, the laboratory continues to experience delays in analysis and reporting.

# 5. Durham and York Regions and Reworld Monthly Data and Operations Review

Regional staff meet with Reworld on an established schedule to discuss facility operations and review environmental monitoring results, trends, and calculations where required for all monitoring programs, including the available AMESA results.

#### 6. Oversight of AMESA Results

The Regional Municipality of Durham and the Regional Municipality of York Region staff and Reworld meet with the MECP every quarter to discuss all items pertinent to the ECA, the Environmental Monitoring Programs, and facility operations. Any concerns not determined to be reportable incidents in accordance with the ECA are discussed along with day-to-day operations and monitoring.

Any events the ECA deems reportable are done in accordance with the appropriate ECA condition.

Results of the AMESA LTSS are reported to the MECP in the DYEC Annual Reports and posted to the DYEC website. AMESA trends of validated data are presented as a 12-month rolling average together with an analysis to demonstrate the ongoing performance of the APC Equipment. The MECP had no concerns with the AMESA results detailed in the <u>2022 Annual Report</u> as posted via this link: <u>MECP Review of the</u> <u>DYEC 2022 Annual Report</u>. <u>The 2023 Annual Report</u> has been posted to the website.

#### 7. AMESA Performance

The measured concentrations for each of the 17 dioxins and furans congeners identified in the laboratory certificate of analysis are applied to established computations to obtain a result. These calculations quantify the dioxins and furans per cubic metre of gas at reference conditions. Standard temperature, pressure and oxygen correction factors are also applied to the measured concentration to obtain a value for regulatory comparison. Finally, each of the 17 dioxins and furans congeners is multiplied by their respective toxic equivalency factor (TEF) and added to obtain total dioxins and furans total toxic equivalence (TEQ). The ECA for the DYEC specifies the use of the NATO classification scheme for dioxins and furans; therefore, the NATO TEF factors are applied to obtain the TEQ calculation. Table 2 shows each AMESA sampling run, the start and end time the cartridge was in-situ for each boiler unit, and the calculated result.

#### Table 2: AMESA Calculated Results

Unit	Run	Start Date	End Date	Calculated Result
				(pg TEQ/Rm <sup>3</sup> )
1	100	October 21, 2024	November 11, 2024	3.080
2	100	October 21, 2024	November 11, 2024	2.825
1	101	November 22, 2024	December 2, 2024	1.493
2	101	November 11, 2024	December 2, 2024	2.629
1	102	December 2, 2024	December 3, 2024	4.381
2	102	December 2, 2024	December 3, 2024	4.002
1	103	December 16, 2024	January 17, 2025	1.288
2	103	December 16, 2024	January 17, 2025	2.195

Note 1: No AMESA sampling cartridge was in place during the outage from October 1 to October 15, 2024. Note 2: Run 102 for Boilers 1 and 2 was carried out concurrently with the source testing for dioxins and furans.

While AMESA has no regulatory limit associated with compliance as it is used to supplement source testing, the ECA directs that "The Owner shall evaluate the performance of the long-term sampling system in determining dioxins and furans emission trends and/or fluctuations as well as demonstrating the ongoing performance of the APC Equipment associated with the boilers." The Regions, their Engineering and Air Emissions oversight consultants, and Reworld will continue to monitor DYEC performance in relation to AMESA results and trends. Figure 1 displays the results of the AMESA sampling runs conducted in the fourth quarter (Q4) of 2024.



Figure 1: AMESA October 21, 2024, to January 17, 2025.

Note 1: Run 102 for Boilers 1 and 2 was carried out concurrently with the source testing for dioxins and furans.

#### 7.1 Investigation

There were no results in the fourth quarter (Q4) of 2024 that triggered the initiation of the AMESA Investigation Checklist.

#### 8. AMESA relative to most current Source Testing Dioxins and Furans Results

AMESA is not used to assess compliance and should not be evaluated against Ministry standards, such as the dioxins and furans source testing limit. The testing methodology for AMESA and source testing sampling and analysis are different and are set out within their prescribed sampling method and manufacturer guidelines.

AMESA Run 102 commenced operation concurrent with the source testing periods in which the dioxin and furan testing was performed for 1 day.

The AMESA results are presented in Figure 2 to show how the Q4 calculated values compare to the most current source testing results. The source test compliance limit for dioxins and furans is 60 pgTEQ/m<sup>3</sup>. The chart below shows the AMESA Q4 2024 results compared to the 2024 December source test results. Results from the



December source test also indicated that the dioxins and furans results are below the regulatory compliance limit.

Figure 2: December 2024 Source Test Results vs. 2024 Q4 AMESA Results (pg TEQ/m3).

Note 1: No AMESA sampling cartridge was in place during the outage from October 1 to October 15, 2024. Note 2: Run 102 for Boilers 1 and 2 was carried out concurrently with the source testing for dioxins and furans.

#### 9. Ambient Air Dioxins and Furans Results–Fourth Quarter (Q4) 2024

The ambient air monitoring program samples for dioxins and furans. The sampling methodology, units of measurement, and reporting limits are prescribed differently and cannot be compared directly to the source testing or AMESA results. The ambient air monitoring program does not measure point source emissions, but it provides an indication of local air quality. The monitoring equipment collects air samples, capturing ambient air emissions from various sources within the vicinity. The results from the ambient air monitoring provide insights into local air quality and may indicate potential factors influenced by meteorological conditions, including wind speed and direction.

Figure 3 illustrates the results of the fourth quarter (Q4) at the two ambient air stations near the DYEC. The dioxins and furans levels consistently remain below the Ontario Ambient Air Quality Criteria of 0.1 picogram Toxic Equivalency per cubic meter (pgTEQ/m<sup>3</sup>).

Additionally, the Ontario Ambient Air Quality Criteria is 10 times lower than the Ontario Regulation 419 Upper Risk Threshold of 1 pgTEQ/m<sup>3</sup> for dioxins and furans.



Figure 3: Ambient Air 2024 Q4 Dioxins and Furan Results

#### End of Report

Town of Whitby 575 Rossland Road East, Whitby, ON L1N 2M8 905.430.4300 whitby.ca



	Legislative Services Division	
June 2, 2025	Date & TimeJune 02, 2025Received:11:11 am	
Via Email:	Original To: CIP	
The Heneurable Cary Anandasangaraa	Copies To:	
Minister of Public Safety	Take Appropriate Action File	
gary.anand@parl.gc.ca	Notes/Comments:	

Re: Advocating for Sustainable Federal Funding for PARA Marine Search and Rescue

Please be advised that at its meeting held on May 26, 2025, the Council of the Town of Whitby adopted the following as Resolution # 106-25:

Whereas PARA Marine Search and Rescue (PMSAR) is a registered Canadian charity that has been operating with a dedicated team of volunteers since 1967, who have contributed thousands of hours annually to ensure the safety of individuals participating in water activities on Lake Ontario; and,

Whereas PMSAR annually conducts over 30 search and rescue missions in coordination with Canadian Coast Guard, from Port Credit to Port Hope. Notable rescues include the recovery of kayakers, children on floats, and searches for missing persons off the shores of Lake Ontario. The unit works alongside various other government departments including local police, fire, EMS, and Coast Guard for both Canada and the US; and,

Whereas PMSAR's commitment to safety, teamwork, and community has been recognized through numerous awards and recognitions; and,

Whereas PMSAR and its volunteers play a vital role in keeping the Lake Ontario waterfront and residents in Durham Region safe; and,

Whereas despite its vital work, PMSAR operates with minimal federal support, relying heavily on community funding and volunteer efforts to raise funds for major capital acquisitions; and,

Whereas the lack of direct sustainable and predictable funding from upper-tier governments poses a significant risk to the continuity and effectiveness of PMSAR's long-term operations; and,

Whereas PMSAR is in need of additional funding to procure a new vessel to replace their current vessel which will be at end of life in the mid-2030s; and,

Whereas ongoing annual operating funding from the federal government will lessen the burden for PMSAR as they work towards raising the approximately \$2,000,000 required for a new vessel.

Now therefore, be it resolved:

- That Whitby Council calls on the Federal Government to commit ongoing and predictable operating funding from the federal government to PARA Marine Search and Rescue to support the organization's long-term operational needs, including vessel and equipment replacement, and for the continued safety and protection of residents on Lake Ontario;
- 2. That Whitby Council encourages all Durham municipalities and the City of Toronto to bring forward similar motions advocating for ongoing operating support for PARA Marine Search and Rescue; and,
- 3. That a copy of this motion be sent to Ryan Turnbull, MP for Whitby; Lorne Coe, MPP for Whitby; Public Safety Canada; the Regional Municipality of Durham; all Durham Region lower-tier municipalities; the City of Toronto; and PARA Marine Search and Rescue.

Should you require further information, please do not hesitate to contact the Office of the Town Clerk at 905-430-4300.



Sr. Manager of Legislative Services/Deputy Clerk <u>clerk@whitby.ca</u>

Copy: Ryan Turnbull, MP, Whitby - ryan.turnbull@parl.gc.ca Lorne Coe, MPP, Whitby - lorne.coe@pc.ola.org
A. Harras, Director of Legislative Services and Regional Clerk, Regional Municipality of Durham – <u>clerks@durham.ca</u>
J. Grossi, Municipal Clerk, Town of Ajax - <u>clerks@ajax.ca</u>
F. Lamanna, Clerk/Deputy CAO, Township of Brock -<u>fernando.lamanna@brock.ca</u>
J. Gallagher, Municipal Clerk, Municipality of Clarington – <u>clerks@clarington.net</u>
M. Medeiros, City Clerk, City of Oshawa – <u>clerks@oshawa.ca</u>
S. Cassel, City Clerk, City of Pickering – <u>clerks@pickering.ca</u>
B. Labelle, Director of Corporate Services/Municipal Clerk, Township of Scugog -<u>blabelle@scugog.ca</u>
D. Leroux, Clerk, Township of Uxbridge – <u>dleroux@uxbridge.ca</u>

#### **Town of Whitby** 575 Rossland Road East Whitby, ON L1N 2M8 905.430.4300 whitby.ca



J. Elvidge, City Clerk, City of Toronto - <u>clerk@toronto.ca</u> PARA Marine Search and Rescue – <u>info@paramarinesar.ca</u>



Corporate Services Department Legislative Services

Sent by Email	Corporate S Legislative	ervices Department Services Division
June 4, 2025	Date & Time Received:	June 04, 2025 12:46 pm
The Honourable Peter Bethlenfalvy	Original To:	CIP
MPP Pickering-Uxbridge	Copies To:	
1550 Kingston Rd., Suite 213	Take Appropriate Ac	tion File
Pickering, ON L1V 1C3 peter.bethlenfalvy@pc.ola.org	Notes/Comments:	

Subject: Raising Ontario Works (OW) and Ontario Disability Support Program (ODSP)

The Council of The Corporation of the City of Pickering considered the above matter at a Meeting held on May 26, 2025 and adopted the following resolution:

**WHEREAS** individuals and families receiving income support through Ontario Works (OW) and the Ontario Disability Support Program (ODSP) are facing increasing challenges in meeting basic needs due to rising costs of living;

**And Whereas** Statistics Canada notes that people with disabilities have a higher poverty rate and a lower rate of employment than the overall population;

**And Whereas** the annual income support for Ontario Works is currently \$8,796.00 and \$16,416.00 for Ontario Disability Support Program. These supports have not increased sufficiently to keep up with inflation and the cost of living. Such costs are anticipated to continue increasing;

**And Whereas** the low income measure for a single person in Greater Toronto Area is estimated to be approximately \$27,343 annually, and the deep income poverty threshold is determined to be \$20,508;

**And Whereas** Food Banks, including our local Food Banks, provide a necessary service with increasing demands in our communities;

**And Whereas** the Pickering Food Bank served 1,722 adults, and 1,054 children in February 2025;

**And Whereas** food banks are already reducing their distribution capacity; and it is anticipated that due to developing economic circumstances, such as the current tariff war, there will be increased unemployment, increased food prices, and a heightened demand for food distribution, while donations continue to decline;

**And Whereas** these economic trends will continue to erode the purchasing power of OW and ODSP recipients, increasing reliance on food banks and placing additional pressure on municipalities and community organizations;

**Now therefore it be resolved** that the Council of The Corporation of the City of Pickering directs through the Office of the Chief Administrative Officer:

- 1. That staff send a letter to the Premier of Ontario, Minister of Finance, Minister of Children, Community and Social Services, and the Minister for Seniors and Accessibility, to strongly urge that the Ontario Provincial Government significantly raise the payments of Ontario Works and Ontario Disability Support Program and the increases be reflected in the upcoming Provincial Budget and that the increased amount aligns with inflationary costs and thereby decrease the pressure on food banks and the reliance on municipalities and taxpayers to supplement the gap in financial need; and,
- 2. That a copy of this resolution be forwarded to all Members of Provincial Parliament (MPPs), the Regional Municipality of Durham, all Municipalities in the Province of Ontario, the Federation of Canadian Municipalities (FCM), and the Association of Municipalities of Ontario (AMO) for their endorsement and advocacy.

Should you require further information, please do not hesitate to contact the undersigned at 905.420.4660, extension 2019.

Yours truly

Susan Cassel City Clerk

SC:am

Copy: Robert Cerjanec, MPP Ajax Lorne Coe, MPP Whitby Jennifer French, MPP Oshawa Todd McCarthy, MPP Durham Laurie Scott, MPP Haliburton—Kawartha Lakes—Brock Alexander Harras, Regional Clerk, Region of Durham Federation of Canadian Municipalities (FCM) Association of Municipalities of Ontario (AMO) All Ontario Municipalities

Chief Administrative Officer



May 30, 2025

111 Sandiford Drive L4A 0Z8 Corporate Services Department Legislative Services Division Date & June 02, 2025 Time 3:09 pm Received: CIP Original To: Copies To: Take Appropriate Action File

**t:** 905-640-1900 Stouffville, Ontario **tf:** 855-642-TOWN townofws.ca

The Honourable Doug Ford, Premier of Ontario Premier's Office, Room 281 Legislative Building, Queen's Park Toronto, ON M7A 1A1

Delivered by email premier@ontario.ca

Dear Mr. Premier:

#### Re: Town of Whitchurch-Stouffville Council Resolution of May 7, 2025, Re: Correspondence from York Region, re: Provincial Funding Shortfall of Human and Health Programs and Services

Please be advised that this matter was considered by Council at its meeting held on May 7, 2025, and Council passed the following resolution:

That Council receive and endorse the correspondence from York Region, re: Provincial Funding Shortfall of Human and Health Programs and Services as attached.

#### Darneet Sandhu

Davneet Sandhu Council/Committee Coordinator

Copy: Hon. Paul Calanda, Minister of Municipal Affairs and Housing Hon. Natalia Kusendova-Bashta, Minister of Long-Term Care Hon. Sylvia Jones, Minister of Health All York Region MPP's All Ontario municipalities

On April 24, 2025 Regional Council made the following decision:

- 1. The Regional Chairman and all nine mayors, send a joint letter to the Premier of Ontario and the Ministers of Municipal Affairs and Housing, Long-Term Care, and Health, and York Region MPPs requesting a meeting to:
  - a. Discuss the \$77 million shortfall in health and human services funding arrangements for mandated health and human services, taking into account population growth, socio-economic shifts and increased costs, and establish permanent sustainable provincial funding solutions to ensure York Region receives the funding needed to deliver these important programs.
  - b. Request the Province to improve the funding arrangements for mandated human and health services to reduce the burden on property taxpayers.
- 2. York Region staff work with community partners, Association of Municipalities of Ontario and other public sector organizations to advocate to provincial counterparts for sustainable funding to ensure services delivered by municipalities can meet growing and changing community needs.
- 3. The Regional Clerk circulate the report, to local municipalities, local hospitals, Human Services Planning Board, Newcomer Inclusion Table, Association of Municipalities of Ontario, Ontario Municipal Social Services Association, United Way Greater Toronto, AdvantAge Ontario, Ontario Long-Term Care Association, Ontario Association of Paramedic Chiefs, Association of Public Health Business Administrators, Ontario Alliance to End Homelessness, Ontario Health Teams in York Region and local Members of Provincial Parliament requesting they join in the Region's advocacy efforts.

The original staff report is available for your information at the following link:

Provincial Funding Shortfall of Human and Health Programs and Services - Committee of the Whole - Week 1 - April 10, 2025

Please contact Monica Bryce, (A) Director, Integrated Business Services at 1-877-464-9675 ext. 72096 if you have any questions with respect to this matter.

Regards,

Christopher Raynor (he/him) | Regional Clerk, Regional Clerk's Office, Corporate Services Department

The Regional Municipality of York | 17250 Yonge Street | Newmarket, ON L3Y 6Z1 **O:** 1-877-464-9675 ext. 71300 | <u>christopher.raynor@york.ca</u> | <u>york.ca</u>

Our Mission: Working together to serve our thriving communities – today and tomorrow

Municipality of Bluewater Town of Petawawa Town of Essex North-Middlesex Parry Sound Zorra Township

#### Via email

RE: Town of Petrolia Council support of opposition to strong mayor powers

During the May 12, 2025 regular meeting of council, council in response to correspondence received from the Municipality of Bluewater | Town of Petawawa | Town of Essex | North-Middlesex | Parry Sound & Zorra Township the following resolution passed:

MOVED: Liz Welsh

SECONDED: Joel Field

THAT the Town of Petrolia acknowledge receipt of the letters circulated by municipalities in relation to opposition of strong mayor powers and acknowledge that we support them.

#### **Carried**

Bill Clark	For
Chad Hyatt	For
Ross O'Hara	For
Debb Pitel	For
Liz Welsh (Moved By)	For
Joel Field (Seconded By)	For
Brad Loosley	Against
CARRIED.	
recorded vote was requested	by Mayor Loosley

Kind regards,

Original Signed

Mandi Pearson Director of Legislative Services | Clerk

cc:

Premier Doug Ford <u>premier@ontario.ca</u> Hon. Rob Flack, Minister of Municipal Affairs & Housing <u>rob.flack@pc.ola.org</u> MPP Bob Bailey, Sarnia-Lambton <u>bob.bailey@pc.ola.org</u> Ontario Municipalities

Phone: (519)882-2350 • Fax: (519)882-3373 • Theatre: (800)717-7694



411 Greenfield Street, Petrolia, ON, NON 1R0

www.town.petrolia.on.ca
Page 94 of 122

you'll be surprised!

Town of Mattawa Township of Springwater Town of Goderich

#### Via email

RE: Town of Petrolia Council support of opposition to strong mayor powers

During the May 26, 2025 regular meeting of council, council in response to correspondence received from Goderich | Mattawa & Springwater the following resolution passed:

C-10 WHEREAS the Council of the Corporation of the Town of Petrolia has received correspondence from Goderich, Town of Mattawa and the Township of Springwater in opposition to Strong Mayors Powers.

THEREFORE BE IT RESOLVED THAT the Council of the Corporation of the Town of Petrolia acknowledge receipt of the letters circulated by Goderich, Mattawa, and Springwater in opposition of Strong Mayors Powers and further that we support them and that a copy of this motion with a recorded vote be sent to them.

Moved By Liz Welsh, Seconded By Joel Field Bill Clark For Chad Hyatt For Ross O'Hara Absent Debb Pitel For Liz Welsh (Moved By) For Joel Field (Seconded By) For Brad Loosley For CARRIED. recorded vote requested by Councillor Welsh

Kind regards,

Original Signed

Mandi Pearson Director of Legislative Services | Clerk

cc:

Premier Doug Ford <u>premier@ontario.ca</u> Hon. Rob Flack, Minister of Municipal Affairs & Housing <u>rob.flack@pc.ola.org</u> MPP Bob Bailey, Sarnia-Lambton <u>bob.bailey@pc.ola.org</u> Ontario Municipalities

Phone: (519)882-2350 • Fax: (519)882-3373 • Theatre: (800)717-7694



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you'll be surprised!



#### Resolution of Council City Council Meeting

Title: Date: Bill 6, Safer Municipalities Act, 2025 May 20, 2025

WHEREAS:

1. A municipality's parks and open spaces are critical infrastructure that support a strong community, and the public's shared and safe use of the municipality's parks and open spaces is integral to ensuring that support.

2. Ontario's municipalities are struggling to maintain their parks and open spaces for their shared and safe use by the public as a result of the increasing proliferation of encampments and illicit activities related thereto.

3. Municipalities that enforce their standards regulating or prohibiting encampments in their parks and open spaces must have regard to the availability of shelter space for those who need shelter.

4. On January 27, 2023, Justice Valente of the Ontario Superior Court of Justice rendered his judgment in Waterloo (Regional Municipality) v. Persons Unknown and to be Ascertained (2023), [2023] O.J. No. 417 (Waterloo Decision) which declared that the municipality's by-law violated section 7 of the Charter and was therefore inoperative insofar as it applied to prevent encampment residents from erecting temporary shelters on a site when the number of homeless individuals in the region exceeded the number of accessible shelter beds.

5. The Waterloo Decision's analysis of the adequacy of shelter beds suggests an unworkable and unclear standard that goes beyond the number of shelter spaces and that includes the requirement to provide shelter spaces that must accommodate illicit drug use and other activities that could put shelter residents, workers and volunteers at risk. The result is that municipalities are impaired in their enforcement of their standards and have lost or are losing control of their parks and open spaces. 6. On December 12, 2024, the provincial government introduced Bill 242, Safer Municipalities Act, 2024. Among its various initiatives, Bill 242 proposed to amend section 2 of the Trespass to Property Act by adding aggravating factors that must be considered in the court's determination of a penalty under that section. However, the key challenge was that a municipality's exercise of its rights at common law and under section 9 of the Trespass to Property Act to remove encampments from the municipality's parks and open spaces remained potentially subject to the unworkable and unclear standard for the adequacy of shelter space suggested by the Waterloo Decision.

7. On January 13, 2025, Council of the City of Peterborough resolved to request the provincial government to amend Bill 242 to clearly define a workable standard for shelter space for the purposes of a municipality's jurisdiction to enforce its standards regulating or prohibiting encampments in its parks and open spaces.

8. Bill 242 died on the order paper as a result of the recent provincial election.

9. On April 30, 2025, the provincial Government re-introduced the legislation in the form of Bill 6, Safer Municipalities Act, 2025. Bill 6 is substantively the same as Bill 242.

10. In these circumstances, municipalities continue to need provincial legislation that clearly defines a workable standard for shelter space for the purposes of a municipality's jurisdiction to enforce its standards regulating or prohibiting encampments in its parks and open spaces. NOW THEREFORE, be it resolved:

1. That the provincial government be respectfully requested to amend Bill 6 to clearly define a workable standard for shelter space for the purposes of a municipality's jurisdiction to enforce its standards regulating or prohibiting encampments in its parks and open spaces.

2. That, without limitation, Bill 6 provide that a municipality will have met the standard for shelter space for the purposes of the municipality's jurisdiction to enforce its standards regulating or prohibiting encampments in its parks and open spaces:

a) despite the establishment and enforcement of shelter rules including rules that prohibit drug use and other activities that could put shelter residents, workers and volunteers at risk; and

b) if an official designated by the municipality is satisfied that the number of available shelter spaces is at least equal to the aggregate of the number of individuals actually seeking shelter and the number of individuals against whom the municipality is planning to enforce its standards regulating or prohibiting encampments in its parks and open spaces.

- 3. That a copy of this resolution be sent to:
- a) Peterborough Kawartha MPP Dave Smith;
- b) Honourable Doug Ford, Premier;
- c) Honourable Robert Flack, Minister of Municipal Affairs and Housing;
- d) Honourable Doug Downey, Attorney General;
- e) Association of Municipalities of Ontario; and to
- f) Councils of each of Ontario's municipalities.

The above resolution, adopted by City Council is forwarded for your information and action, as required. Thank you.

John Kennedy, City Clerk

Corporate Services Department Legislative Services Division	
Date & Time Received:	June 02, 2025 8:31 am
Original To:	CIP
Copies To:	
Take Appropriate Action File	
Notes/Comments:	



#### **District of Parry Sound Municipal Association**

c/o Township of McKellar, 701 Hwy 124 McKellar, ON P0G 1C0 President: Lynda Carleton Secretary-Treasurer: Karlee Britton

#### **RE: Supporting Municipal Ethics Through Access and Education**

The District of Parry Sound Municipal Association (DPSMA), representing the twenty-three Municipalities within the District of Parry Sound, held its Spring 2025 meeting on May 23, 2025, in the Municipality of Callander. At this meeting, the following resolution was carried:

Moved by: Kathy Hamer (Municipality of N	McDougall)
--	------------

Seconded by: Daniel O'Halloran (Township of McMurrich Monteith)

Whereas democracy is an open process – one that requires ongoing engagement between citizens and their elected officials; and

Whereas ethics and integrity are at the core of public confidence in government and in the political process; and

Whereas proper policies and procedures protect the democratic process; and

Whereas sections 223.2 and 223.3, Municipal Act, 2001 state all municipalities are required to adopt a Code of Conduct for members of Council and to appoint an Integrity Commissioner; and

Whereas it is the role of the Integrity Commissioner to educate member of Council on the Councillor Code of Conduct policy as well as to investigate alleged breaches of the Code of Conduct, at the municipality's expense; and

Whereas there are many new elected officials each term of Council who need access to information and proper training in order to do the work effectively and responsibility; and

Whereas Municipal Affairs and the Ombudsman's Office are hesitant to give information, so there is nowhere to ask questions and learn; and

Whereas the only source of information is to pay for fee-for-service on a case-by-case basis from the Integrity Commissioner which is very cost-prohibitive for small municipalities; and

Whereas Council is expected to oversee the management of taxpayers money and taxpayers deserve to know where their tax dollars are being spent;

**Now Therefore Be It Resolved That** the District of Parry Sound Municipal Association calls upon the Ontario government to provide free access to information so that Councils can be effective in their role in our democratic system; and

**Further That** the DPSMA hereby requests that Municipal Affairs and/or the Ombudsman's Office and/or the Integrity Commissioner provide, if requested by a municipality, sufficient particulars of each investigation to permit the municipality to fully understand and address the subject matter of each investigation.

**Further That** this resolution be forwarded to the Honourable Doug Ford, Premier of Ontario, the Honourable Graydon Smith, MPP Parry Sound-Muskoka and to all Ontario Municipalities for support.

Forwarded on beholf of the District of Parry Sound Municipal Association; For questions and/or inquires, please contact:

Karlee Britton | Secretary-Treasurer District of Parry Sound Municipal Association <u>clerk@mckellar.ca</u> (705) 389-2842 x4

cc:

Honourable Doug Ford, Premier of Ontario Honourable Graydon Smith, MPP Parry Sound-Muskoka Municipalities within the District of Parry Sound All Ontario Municipalities



May 28, 2025

Please be advised that during the regular Council meeting of May 27, 2025 the following resolution regarding Bill 5: Protecting Ontario by Unleashing Our Economy Act, 2025 was carried.

**RESOLUTION NO.** <u>205-317</u>

DATE: May 27, 2025

MOVED BY: Councillor MacNaughton

SECONDED BY: Councillor Hirsch

Corporate Services Department Legislative Services Division	
Date & Time Received:	May 30, 2025 8:43 am
Original To:	CIP
Copies To:	
Take Appropriate Action File	
Notes/Comments:	

WHEREAS the Government of Ontario has introduced Bill 5: Protecting Ontario by Unleashing Our Economy Act, 2025, which proposes substantial changes to many Acts within one bill which undermine environmental protections in order to "unleash the economy"; and

WHEREAS multiple inclusions will impact habitat, biodiversity protections and environmental integrity without proper process including but not limited to:

- the repeal and replacement of the Endangered Species Act with a weaker act;
- the creation of a Special Economic Zones Act which will permit exemptions from legislated environmental protections;
- changes to provisions to the Mining Act which provide sweeping powers to the Minister of Energy and Mines that are poorly defined, subject to caprice, or possibly designed to enable exemption from environment protection; and

WHEREAS proposed changes will override local planning authority, provincial legislation, and bylaw enforcement for the benefit of specific preferred proponents over the rights of Ontarians; and

WHEREAS First Nations citizens have an enshrined right to access their own archeology and Canadians have an enshrined responsibility to seek free, prior and informed consent from First Nation neighbours regarding land use; and



WHEREAS several proposed changes could imperil the health of lands and water for which First Nations have traditional and treaty rights; and

WHEREAS the provisions of the Special Economic Zones Act are not clear enough to ensure that there are adequate legal and environmental protections to offset risks to Ontarians and First Nations members, to provide adequate safeguards against bad faith environmental practice; and protect against unsafe labour practice as identified by labour sector organizations; and

WHEREAS fairness is enshrined in both Canada's and Ontario's laws yet proposed changes seem to permit prejudicial regulatory practice (e.g. codifying permissions for "trusted proponents" over others); and

WHEREAS the wording of the changes to the Electricity Act seem to support Canadian ownership of energy suppliers but appear to potentially restrict development of specific types of energy and could impact local renewable energy development; and

WHEREAS there is no evidence that undermining of environmental protections, local legal frameworks, and the rights of First Nations communities in Ontario are a necessary step to "unleash the economy"; and

NOW THEREFORE BE IT RESOLVED THAT the Council of the County of Prince Edward supports any regulation that could encourage energy providers to Buy Canadian but urges the province to clarify the proposed provisions of the Energy Act and ensure they foster local green energy development; and

THAT the province remove the elements in Bill 5 that would reduce current environmental protections, reduce protections for species at risk, and reduce legal protection from bad faith actors in special economic zones; and

THAT the Council of the County of Prince Edward urges the Province to further define Special Economic Zones and their purpose with more clarity and ensure that activities within such zones are equally subject to the local and provincial laws that support all of Ontario and First Nations people and foster our social, cultural and environmental prosperity;

AND FURTHERMORE BE IT RESOLVED THAT the Council of the County of Prince Edward expresses solidarity with the concerns of our neighbouring community, Mohawks of the Bay of Quinte and members of the Haudenosaunee Nation and support Mohawks of the Bay of Quinte and their letter to the province of May 16th 2025, attached; and THAT this resolution be shared with the Honourable Doug Ford, Premiere of Ontario; Stephen Lecce, Minister of Energy and Mines; Rob Flack, Minister of Municipal Affairs and



From the Office of the Clerk The Corporation of the County of Prince Edward T: 613.476.2148 x 1021 | F: 613.476.5727 clerks@pecounty.on.ca | www.thecounty.ca

Housing; Todd McCarthy Minister of the Environment, Conservation and Parks; Sylvia Jones, Deputy Premier and Minister of Health; Tyler Allsopp, Member of Provincial Parliament for Bay of Quinte; Chief Don Maracle, Mohawks of the Bay of Quinte; AMO; ROMA; and the Municipalities of Ontario.

CARRIED

Yours truly,

Victoria Leskie, **CLERK** cc: Mayor Steve Ferguson, Councillor MacNaughton





May 28, 2025

Please be advised that during the regular Council meeting of May 27, 2025 the following resolution regarding "Strong Mayor" powers was carried.

RESOLUTION NO. <u>205-316</u>

DATE: May 27, 2025

MOVED BY: Councillor Engelsdorfer

SECONDED BY: Councillor MacNaughton

Corporate Services Department Legislative Services Division		
Date & Time Received:	May 30, 2025 8:12 am	
Original To:	CIP	
Copies To:		
Take Appropriate Action		
Notes/Comments:		

WHEREAS on May 1st, 2025, the Province of Ontario designated Prince Edward County as a "Strong Mayor" community along with 168 other Ontario communities, granting enhanced powers to the Mayor; and

WHEREAS Strong Mayor powers significantly alter the balance of governance at the municipal level, undermining the role of Council in decision-making and weakening the fundamental democratic principle of majority rule; and

WHEREAS "Strong Mayor" legislation violates the principles and meaning of democracy, and local governance has, for generations, been built upon a foundation of shared, democratic decision-making; and

WHEREAS elected representatives and citizens from many municipalities throughout Ontario including several close neighbours such as Quinte West have expressed significant concern regarding the imposition and appropriateness of these powers; many councils have called for their repeal; and many mayors throughout the province have publicly recommitted to democracy by refusing to adopt "Strong Mayor" powers; and

WHEREAS Prince Edward County did not formally request or express a desire to be designated under the Strong Mayor framework; and

WHEREAS the government justified the expansion as a tool to build more housing, AMTCO has indicated there is no evidence that the legislation has impacted housing starts in municipalities that have previously been granted strong mayor powers; and



From the Office of the Clerk The Corporation of the County of Prince Edward T: 613.476.2148 x 1021 | F: 613.476.5727 clerks@pecounty.on.ca | www.thecounty.ca

WHEREAS strong mayor powers create significant risks for municipal integrity increased division in local discourse, the blurring of roles threatening the neutrality of the unelected public service, and greater risk of improper influence (or the appearance thereof) particularly regarding local planning and development matters;

THEREFORE BE IT RESOLVED that the Council of the County of Prince Edward formally request that the Premier of Ontario and the Minister of Municipal Affairs and Housing recommit to the meaning and spirit of democracy and rescind the Strong Mayor legislation;

AND BE IT FURTHER RESOLVED that a copy of this resolution be sent to the Premier of Ontario, the Minister of Municipal Affairs and Housing, Bay of Quinte MPP Tyler Allsopp, AMO, ROMA, and all other Ontario Municipalities.

CARRIED

Yours truly,



Victoria Leskie, **CLERK** cc: Mayor Steve Ferguson, Councillor Engelsdorfer

Page 104 of 122



Corporate Services Department Legislative Services Division

 Date & Time
 June 04, 2025

 Pate &
 June 04, 2025

 9:25 am
 9:25 am

 Original To:
 CIP

 Copies To:
 Take Appropriate Action

 Take Appropriate Services
 File

 Notes/Comments:
 Services

CLERK'S OFFICE MARY REMMIG, ACTING CLERK Municipality of North Grenville

June 4, 2025

Please be advised that, at their regular meeting on June 3, 2025, Council of the Municipality of North Grenville adopted the following resolution:

**Title:** Bill 5: Protecting Ontario By Unleashing Our Economy Act, 2025 **Date:** June 3, 2025

WHEREAS the Government of Ontario has introduced *Bill 5: Protecting Ontario by Unleashing Our Economy Act, 2025*, which proposes substantial changes to environmental planning policies, including replacing the Endangered Species Act with a new framework that reduces protections for at-risk species, and enabling the creation of Special Economic Zones that may override local planning authority and environmental oversight;

AND WHEREAS the Municipality of North Grenville supports increasing housing supply and economic growth, but believes this must be done in a way that upholds environmental responsibility and maintains the integrity of local planning processes;

AND WHEREAS Bill 5, as proposed, weakens safeguards for natural heritage systems, threatening biodiversity, and diminishing the authority of municipalities to manage growth in accordance with local needs and official plans;

AND WHEREAS the Municipality of North Grenville urges the Government of Ontario to recommit to upholding the rights of Indigenous Peoples as affirmed in Canadian law through the United Nations Declaration on the Rights of Indigenous Peoples Act and engage in transparent inclusive consultations with Indigenous Nations and civil society before tabling new development legislation;

AND WHEREAS Special Economic Zones would allow the Province to unilaterally override municipal decision-making by exempting Special Economic Zones from Municipal By-laws;

AND WHEREAS the use of Special Economic Zones to bypass local deliberation on proposed projects may not deliver on the promise of supporting economic growth;

MUNICIPALITY OF NORTH GRENVILLE 285 COUNTY ROAD 44, PO BOX 130, KEMPTVILLE, ON KOG 1J0 T(613)258-9569 EXT 219 F(613)258-9620 clerk@northgrenville.on.ca THEREFORE BE IT RESOLVED THAT Council of the Municipality of North Grenville:

- 1. Opposes all provisions in Bill 5 that reduce environmental protections and Ontario's proud legacy of protections of endangered species, that override the rule of law and that nullify Municipal planning authority;
- 2. Urges the Province of Ontario to support housing and infrastructure development in ways that align with sound environmental planning and wildlife protection and empower municipalities with appropriate planning tools;
- 3. Urges the Province of Ontario to conduct robust consultation on Bill 5: Protecting Ontario By Unleashing Our Economy Act, 2025;
- 4. Urges the Province of Ontario not to use Special Economic Zones to exempt projects from By-laws that impacts revenue including development charge By-laws, property tax By-laws, or fees and charges By-law;
- 5. Requests the Province of Ontario consider the feedback submitted for Bill 5 by the Associations for Municipalities in Ontario (AMO) which highlights protecting Municipal autonomy and fiscal sustainability and Ontario's Environment and Indigenous Cultural Heritage; and,
- 6. Directs that a copy of this resolution be sent to:
  - o The Minister of Energy and Mines;
  - o The Minister of Municipal Affairs and Housing;
  - o The Minister of the Environment, Conservation and Parks;
  - o The Minister of Citizenship and Multiculturalism;
  - o The Premier of Ontario;
  - o The Association of Municipalities of Ontario (AMO); and,
  - All Ontario Municipalities.

The above resolution, adopted by the Municipal Council, is forward for your information and action as required.

Thank you,

Mary Remmig Acting Clerk

MUNICIPALITY OF NORTH GRENVILLE

285 COUNTY ROAD 44, PO BOX 130, KEMPTVILLE, ON KOG 1J0 T(613)258-9569 EXT 219 F(613)258-9620 clerk@northgrenville.on.ca

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 2097.

#### The Regional Municipality of Durham

#### MINUTES

#### TRANSIT ADVISORY COMMITTEE

#### May 20, 2025

A meeting of the Transit Advisory Committee was held on Tuesday, May 20, 2025 in Meeting Room 1-B, Regional Municipality of Durham Headquarters, 605 Rossland Road East, Whitby at 7:05 PM. Electronic participation was offered for this meeting.

#### 1. Roll Call

Present: Commissioner Crawford, Chair

A. Andrus\*, Community Group, Participation House

R. Claxton-Oldfield, Member at Large

I. Giffin\*, Uxbridge

- P. Gunti\*, Clarington, Vice-Chair
- J. McEwen\*, AAC
- A. Mujeeb\*, Pickering
- T. Ralph, Whitby
- T. Smale, Member at Large
- J. Westerman, Oshawa

#### \* denotes members of the Committee participating electronically

#### Absent: A. Ali, Ajax

W. Henshall, AAC

R. Smith, Community Group, Durham Association for Family Resources

Staff

Present: F. Amin, Administrative Assistant, Durham Region Transit
 S. Dessureault, Committee Clerk, Corporate Services – Legislative Services
 R. Inacio, Systems Support Specialist, Corporate Services – IT
 A. Pezzetti, Deputy General Manager, Operations, Durham Region Transit
 J. Phelan\*, Manager, Policy and Planning, Durham Region Transit

\* denotes staff participating electronically

#### 2. Declarations of Interest

There were no declarations of interest.

#### 3. Adoption of Minutes

Moved by T. Smale, Seconded by J. Westerman, That the minutes of the regular Durham Region Transit Advisory Committee meeting held on Tuesday, February 18, 2025, be adopted. CARRIED

#### 4. Presentations

A) Jack Phelan, Manager, Policy and Planning, Durham Region Transit, Re: What's in a Route Name

J. Phelan, Manager, Policy and Planning, Durham Region Transit provided a PowerPoint presentation regarding What's in a Route Name.

Highlights from the presentation included:

- What are Destination Signs?
- Study Area
- Worldwide Stats
- Within Canada
- Local Trends
- Global Trends
- DRT's Destination Signs
- Why Does DRT Use Numbers and Destinations?

J. Phelan responded to questions from the Committee regarding whether the implementation of front-facing indicator lights to signify DRT vehicle accessibility has been considered; the existing mechanisms in place to notify visually impaired riders when their bus has arrived; how customers are adjusting to route variations; trip selection process on the DRT website; the removal of DRT's phone number from bus stop signage; the distance between bus stop locations; whether accessibility is a key consideration in the planning and implementation of changes to DRT; and whether the Transit Advisory Committee will be included in the rebranding process for DRT.

#### 5. Delegations

There were no delegations.

#### 6. Correspondence Items

There were no communication items to be considered.

#### 7. Information Items

There were no information items to be considered.

#### 8. Discussion Items

A) <u>TAC Priority Focus Areas</u>

F. Amin advised the Committee to engage in an open discussion on how DRT can enhance communication and community engagement to better understand the needs of the community.
Discussion ensued regarding increasing communication by having DRT participate at more community events across the Region of Durham; the methods of communication used to inform customers on route changes; the groups that DRT prioritizes in its services and outreach efforts; the challenges posed by the decline in local media channels; whether local MPs and MPPs have been contacted to help promote DRT; the possibility of offering educational rides to groups who may feel unfamiliar using DRT; and strategies to encourage greater transit use among seniors in the Region of Durham.

Staff advised that DRT has a community ambassador and engagement team that visit local community centres to provide travel training to promote transit awareness.

## B) Update on Voyago Contract Status

J. Westerman requested an update on the status of the Voyago contract, as well as information regarding the maintenance standards for DRT vehicles.

Staff advised that Voyago was recently audited by DRT, which identified no issues and confirmed satisfaction with the services provided.

## C) <u>Distance Between On Demand Stops</u>

A. Mujeeb raised concerns regarding the distance between On Demand Transit stops and the removal of On Demand stops.

Staff advised that DRT's service standard is to ensure that 95 percent of dwellings in the urban area of the Region of Durham are within an eight-hundred-meter walk of the nearest bus stop for both scheduled and On Demand services.

## D) <u>121 Weekend Route</u>

A. Mujeeb asked why Route 121 operates on a different route during the weekends.

Staff advised that DRT focuses on allocating service where and when it is most beneficial to the majority of riders, which may result in differences between weekday and weekend service patterns.

## E) <u>Does DRT Staff Use Transit</u>

A. Mujeeb asked whether DRT staff utilize DRT services.

Staff advised that some DRT staff use the service for their own travel needs, and that DRT staff also utilize it when traveling to meetings or community events.

F) Durham Region Transit and School Bus Services

A. Mujeeb asked why there is a duplication of service between DRT and school bus transportation.

Chair Crawford advised that at this time, the Durham District School Board and DRT have not integrated their services.

## 9. Other Business

#### A) <u>Removal of Capacity Limits on On Demand Transit Services</u>

I. Griffin raised concerns regarding the recent removal of capacity limits to On Demand transit services and how this change may impact residents in Uxbridge.

Staff clarified that On Demand Transit Services is a co-mingled service designed to provide access for customers living in a rural area, and is also used by customers who are eligible for specialized transit.

Staff advised that in December 2024, DRT had paused subscription bookings used by specialized transit customers with recurring trips in order to conduct a comprehensive review of how customers engage with and access the system, with the goal of developing recommendations for potential improvements. Staff advised that at the May 7, 2025 Transit Executive Committee, the Committee approved the removal of capacity limits on subscription bookings.

Discussion ensued regarding how the removal of capacity limits will impact the rural municipalities within the Region of Durham.

Moved by I. Giffin, Seconded by T. Smale,

That we recommend to the Transit Executive Committee for approval:

That the Transit Executive Committee reconsider the removal of capacity limits as set out in Recommendation A) of Report #2025-DRT-06, as amended, and approved at the May 7, 2025 Transit Executive Committee meeting.

## CARRIED

#### B) <u>Permanent Cut to the Gas Tax</u>

T. Smale raised concerns regarding the recent release of the provincial government's budget, specifically the permanent cut to the gas tax, and how this change may impact DRT which currently receives a subsidy from this funding source.

Chair Crawford recommended that DRT staff review the matter and provide a response at the September 16, 2025 TAC meeting.

C) Increased Access to the Lakeshore

T. Smale asked whether DRT will be offering special services during the summer months to provide increased access to the Lakeshore.

Staff advised the Committee of several special services currently being offered, as well as additional services planned for the upcoming summer months.

Transit Advisory Committee – Minutes May 20, 2025

# 10. Date of Next Meeting

Tuesday, September 16, 2025 at 7:00 PM

# 11. Adjournment

Moved by T. Ralph, Seconded by T. Smale, That the meeting be adjourned. CARRIED

The meeting adjourned at 9:11 PM.

M. Crawford, Chair, Transit Advisory Committee

S. Dessureault, Committee Clerk

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 2097.

## The Regional Municipality of Durham

## MINUTES

# ACCESSIBILITY ADVISORY COMMITTEE

## Tuesday, May 27, 2025

A meeting of the Accessibility Advisory Committee was held on Tuesday, May 27, 2025, in Meeting Room 1-A, Regional Headquarters Building, 605 Rossland Road East, Whitby at 1:03 PM. Electronic participation was permitted for this meeting.

## 1. Traditional Territory Acknowledgment

K. Smith read the following land acknowledgement:

The Region of Durham exists on lands that the Michi Saagiig Anishinaabeg inhabited for thousands of years prior to European colonization. These lands are the traditional and treaty territories of the Nations covered under the Williams Treaties, including the Mississaugas of Scugog Island First Nation, Alderville First Nation, Hiawatha First Nation, Curve Lake First Nation, and the Chippewa Nations of Georgina Island, Beausoleil and Rama.

We honour, recognize, and respect Indigenous Peoples as rights holders and stewards of the lands and waters on which we have the privilege to live. In our efforts towards reconciliation, we continue to build and strengthen relationships with First Nations, as well as the growing Inuit communities and large Métis communities and here in Durham. We commit to learning from Indigenous values and knowledge, building opportunities for collaboration, and recognizing that we are all connected.

## 2. Roll Call

 Present:
 D. Campbell\*, Whitby

 P. Chandwani\*, Whitby, Vice-Chair

 W. Henshall\*, Whitby, left the meeting at 2:22 PM

 M. Jaffer\*, Whitby

 M. Lloyd\*, Oshawa

 Councillor McDougall\*, attended the meeting at 2:18 PM

 J. McEwen\*, Clarington, Chair, left the meeting at 2:59 PM

 L. Saumur\*, Pickering

 J. Stevenson, Oshawa

 L. Williams\*, Pickering

 \*denotes members of the committee participating electronically

 Absent:
 S. Sones, Whitby

Staff

Present: F. Amin, Administrative Assistant, Durham Region Transit

D. Daniels, Program Manager, Community Engagement & Change Management

N. Dash, Accessibility Coordinator, Office of the Chief Administrative Officer

- P. Hines, Manager, Diversity, Equity, and Inclusion
- R. Inacio, Systems Support Specialist, Corporate Services IT
- K. Smith, Committee Clerk, Corporate Services Legislative Services
- K. Walfall, DRT Ambassador, Durham Region Transit

## 3. Declarations of Pecuniary Interest

There were no declarations of interest.

## 4. Adoption of Minutes

Moved by M. Lloyd, Seconded by D. Campbell, That the minutes of the Accessibility Advisory Committee meeting held on Tuesday, March 25, 2025, be adopted. CARRIED

#### 5. Welcome and Introduction of New Members

J. McEwen, Chair, welcomed new members, M. Jaffer, L. Saumur, and J. Stevenson to the Accessibility Advisory Committee.

N. Dash invited members of the Accessibility Advisory Committee to introduce themselves. The members introduced themselves and provided a brief overview of their background.

## 6. **Presentations**

A) Sarah Moore, Legislative Specialist, Town of Ajax, re: Launching the Hidden <u>Disabilities Sunflower Program in Ajax</u>

Sarah Moore, Legislative Specialist, Town of Ajax, provided a PowerPoint presentation with regards to Launching the Hidden Disabilities Sunflower Program in Ajax.

Highlights of the presentation included:

- What is the Hidden Disabilities Sunflower?
- Why it's important
- From Implementation ...
- ... to Public Launch
- Request Process
- Q1 Summary
- Considerations
- Don't Underestimate the internal impact
- A Quiet Moment of Understanding at Town Hall

- Looking Ahead
- Expenses to date

S. Moore responded to questions with regards to whether the presentation can be provided to the lower tier municipalities and other service provider organizations in Durham Region in order to spread awareness of the program.

W. Henshall requested the Hidden Disabilities Sunflower Program be included in the October education event.

B) Deborah Daniels, Program Manager, Community Engagement & Change Management, and Kamika Walfall, DRT Ambassador, Durham Region Transit, re: Implementing the Hidden Disabilities Sunflower Program at DRT

Deborah Daniels, Program Manager, Community Engagement & Change Management, and Kamika Walfall, DRT Ambassador, Durham Region Transit, provided a PowerPoint presentation with regards to Implementing the Hidden Disabilities Sunflower Program at DRT.

Highlights of the presentation included:

- We've joined The Sunflower
- What is the Hidden Disabilities Sunflower?
- DRT has Launched the Hidden Disabilities Sunflower Program
- See Our Sunflower
- Impact to Date
- Community Impact
- How did DRT get here?
- How did DRT Join and Launch the Program?
- Success Factors
- Challenges
- Next Steps

D. Daniels and K. Walfall responded to questions with regards to which media outlet wrote an article on the program; and availability of different symbols to identify a person with a hidden disability, and if a choice is offered.

Discussion ensued with regards to rolling out the program at the Regional level; and how the program could be used to acknowledge someone with site loss.

P. Hines advised that Service Durham is currently in discussions about rolling out the Hidden Disabilities Sunflower Program at all public facing Regional facilities.

#### 7. Discussion Items

#### A) <u>Multi-Year Accessibility Plan (MYAP)</u>

N. Dash advised that a survey on the Multi-Year Accessibility Plan received 230 responses and that staff have held focus groups to gather thoughts and feedback on the Plan. The next step will be taking the information gathered and look at the strengths and challenges of the Plan to take to senior leadership for a workshop. The last step will be to develop a strategic framework that will outline visions, strategic directions and feedback from specific players. N. Dash also advised that the Equity Audit conducted in 2023 provided 86 recommendations to Durham Region with 3 relating to accessibility and 20 relating to accommodations. Staff are ensuring these are taken into consideration in the development of the Multi-Year Accessibility Plan.

#### B) Annual AAC Awards

P. Hines advised that additional discussions have taken place regarding the nomination process for the AAC Awards, and the proposal of having municipalities nominate three accessibility champions from each municipality, and the AAC selecting a winner. P. Hines stated there was some concern from the local municipalities with being able to select three nominees, so staff are now proposing to invite the public to provide nominees to be considered during the selection process. P. Hines requested feedback from Committee members on the new proposed nomination process as well as having a member from each of the local Accessibility Advisory Committees to be part of the review committee.

Discussion ensued with regards to having representation from across Durham Region as award recipients; increasing the importance and priority on the outreach, advertising and communication strategy to ensure as many people as possible know about the award nominations; the composition of the review committee; and ensuring there is a clear, transparent rubric for the nomination process.

P. Hines responded to a question with regards to whether the nominees are required to live in Durham Region. She advised that the nominees need to have lobbied for, championed, advocated for, or worked on improving the accessibility in Durham Region.

## 8. Correspondence

There were no items of correspondence to consider.

#### 9. Information Items

#### A) Education Sub-Committee Update

N. Dash advised there have been discussions around a conference that will take place in October that will highlight inclusive hiring and encourage businesses in Durham Region to hire persons with disabilities. Staff are working on finalizing a location and the event will include a keynote speaker and have a panel discussion.

P. Hines also advised the October conference was taking place in recognition of Disabilities Employment Awareness Month. The event will include employers who have current vacancies, education, awareness and networking.

#### B) <u>Site Plan Sub-Committee Update</u>

N. Dash advised staff are working on creating a decal program to identify businesses that meet certain accessible features and prioritize accessibility. Staff are currently on the second draft of the design. P. Hines shared the draft decal design with the Committee.

Discussion ensued with regards to using the forward movement symbol for the wheelchair in the design; the criteria businesses must meet to obtain the decal; the size, legibility, colour and contrast of the decal; who will be reviewing the applications to determine accessibility standards are met; and having different categories for the decal program such as built environment vs website.

N. Dash also advised the subcommittee is working on identifying site plans they would like to review.

#### C) Update on the Transit Advisory Committee (TAC)

The May 20, 2025 Transit Advisory Committee meeting update from J. McEwen was emailed to Committee members.

#### D) Accessibility Coordinator Update

N. Dash advised the Durham Accessibility Conference is taking place on May 28, 2025; on May 30, 2025, "TIFF Film Circuit Ajax Screening of Patrice: The Movie" is taking place at the St. Francis Centre; and the Ajax Accessibility Fair is taking place on May 31, 2025 at the Ajax Public Library Main Branch.

#### **10.** Reports for Information

There were no reports to consider.

#### 11. Other Business

There was no other business to be considered.

Accessibility Advisory Committee Minutes May 27, 2025

## 12. Date of Next Meeting

The next regularly scheduled Accessibility Advisory Committee meeting will be held on Tuesday, June 24, 2025 at 1:00 PM.

## 13. Adjournment

Moved by M. Lloyd, Seconded by P. Chandwani, That the meeting be adjourned. CARRIED

The meeting adjourned at 3:01 PM

Respectfully submitted,

J. McEwen, Chair, Accessibility Advisory Committee

K. Smith, Committee Clerk

# The Regional Municipality of Durham

## Minutes

# Energy From Waste – Waste Management Advisory Committee

# Tuesday, May 27, 2025

A meeting of the Energy from Waste – Waste Management Advisory Committee was held on Tuesday, May 27, 2025 in Council Chambers, Regional Headquarters, 605 Rossland Road East, Whitby, at 7:00 PM. Electronic participation was permitted for this meeting.

## 1. Roll Call

#### Present:

t: G. Baswick, Clarington, Chair, attended the meeting at 7:10 PM

- M. Brennan, Oshawa, Vice-Chair
- G. Gordon, Whitby
- M. Hewitt, Oshawa
- A. Mohan, Pickering
- P. Panchal, Clarington
- G. Rowden, Clarington

# \*all members of the Committee participated electronically

- Absent: R. Fleming, Pickering
  - D. Spaeth, Clarington

**Non-Voting Members** 

## Present: A. Evans, Director of Waste Management Services

- N. Ratnasingam, Climate Action Response Coordinator, Municipality of Clarington
- L. Saha, Manager, Waste Services (Alternate)
- D. San Juan, Environmental Health Specialist, Health Department, Durham Region

# \*all non-voting members of the Committee participated electronically

# Staff

Present:

- S. Ciani, Committee Clerk, Corporate Services Legislative Services
  - S. Vamathevan, Systems Support Specialist Information Technology N. Williams, Project Manager

# \*all staff members participated electronically

## 2. Declarations of Pecuniary Interest

There were no declarations of pecuniary interest.

Energy from Waste – Waste Management Advisory Committee Minutes May 27, 2025

Page 2 of 5

## 3. Adoption of Minutes

Moved by M. Brennan, Seconded by P. Panchal, That the minutes of the EFW-WMAC meeting held on Tuesday,

March 25, 2025, be adopted. CARRIED

#### 4. Elections

This item was deferred from the March 25, 2025, Energy from Waste – Waste Management Advisory Committee meeting.

A) <u>Election of the Chair</u>

S. Ciani, Committee Clerk, called for nominations for the position of Chair of the Energy from Waste – Waste Management Advisory Committee (EFW-WMAC).

Moved by P. Panchal, Seconded by M. Brennan,

That Glenn Baswick be nominated for the position of Chair of the Energy from Waste – Waste Management Advisory Committee.

Moved by G. Gordon, Seconded by G. Rowden,

That nominations be closed.

#### CARRIED

S. Ciani advised that G. Baswick indicated that he would stand prior to the meeting.

G. Baswick was acclaimed to the position of Chair of the EFW-WMAC.

## B) <u>Election of the Vice-Chair</u>

S. Ciani, Committee Clerk, called for nominations for the position of Vice-Chair of the Energy from Waste – Waste Management Advisory Committee.

#### Moved by P. Pankaj, Seconded by G. Rowden,

That Marcus Brennan be nominated for the position of Vice-Chair of the Energy from Waste – Waste Management Advisory Committee.

Moved by G. Gordon, Seconded by A. Mohan, That nominations be closed.

#### CARRIED

S. Ciani asked if M. Brennan wished to stand. M. Brennan indicated that he would stand.

M. Brennan was acclaimed to the position of Vice-Chair of the EFW-WMAC.

G. Baswick attended the meeting at 7:10 PM and at this time, assumed the Chair for the remainder of the meeting.

# 5. Presentations

A) Overview of Durham York Energy Centre (DYEC) Monitoring Program (Presented by Lipika Saha, Manager, Waste Management Services)

Lipika Saha, Manager, Waste Services provided a PowerPoint presentation regarding an overview of the Durham York Energy Centre (DYEC) monitoring plans.

Highlights from the presentation included:

- DYEC Monitoring Plans
- Internal Monitoring Programs
  - Continuous Emission Monitoring
  - Stack (Source) Testing
  - AMESA (Absorption Method for Sampling Dioxins and Furans)
- Air Emission Limits (Source)
- Emissions Performance
  - Voluntary 2024 Stack Test Results (December 2024)
- External Monitoring Programs

L. Saha and A. Evans responded to questions from the Committee regarding how often the source stack testing is performed; whether the voluntary emissions monitoring was required for the certificate of approval; how the DYEC emissions compare to other energy from waste facilities in the country; and whether residual fly ash at the DYEC is tested and monitored.

## 6. Delegations

There were no delegations to be heard.

## 7. Correspondence

There were no correspondence items to be considered.

#### 8. Administrative Matters

#### A) <u>EFW-WMAC Work Plan (2025-2026) – Working Group Establishment</u>

A. Evans advised that working groups/subcommittees can be established as needed by the Committee. G. Gordon highlighted some of the matters that were investigated during the last term of the EFW-WMAC.

# 9. Other Business

## A) <u>DYEC Reporting/Updates</u>

A. Evans advised that there will be some Council Information Reports (CIP) forthcoming with respect to the AMESA data and source stack testing results. He also advised that the DYEC annual report, annual groundwater report, ambient air reports, and the third party audit have been finalized and posted on the DYEC project website.

## B) <u>Community and Upcoming Events</u>

L. Saha advised the remaining community events for 2025 are posted on the Region's website. Some of the remaining events include: the last compost giveaway day that will take place on May 31, 2025, in the City of Pickering; the "Curbside Giveaway Days" that will take place in June and September; and "Secular Economy Month" in October.

L. Saha advised that the open houses for the DYEC and Duffin's Creek Water Pollution Control Plant occurred on May 24, 2025, and were well attended with approximately 200 visitors at each location.

L. Saha responded to a question from the Committee regarding how communication is being shared with the residents of the Region with respect to waste reduction; and how staff are ensuring the messaging is reaching everyone, especially for those residents that are not on any social media platforms.

## C) Operations Update (Automated Carts/Material Recovery (MR) Organics Rollout)

A. Evans advised that the Material Recovery (MR) Organics Rollout has begun for the early adopters for the multi-residential units. He advised that the challenge has been making the material accessible to the drivers as the older multi-residential buildings were not designed for organics collection.

A. Evans advised that the Automated-Cart Pilot Program was well received by the Works Committee and Regional Council. He advised that the Works Committee members requested that staff investigate what the costs would be to continue the pilot program, and what it would cost to expand the program to other parts of the Region. He further advised that a report will be brought to the June 4, 2025, Works Committee with respect to an early analysis of the Automated-Cart Pilot Program and to seek approval to expand the program to the Municipality of Clarington and the Townships within the Region in 2028, with the remainder of the Region being included in the program in 2030. A. Evans advised that with respect to extended producer responsibility for the businesses in the business improvement area's (BIAs), that based on the Region's geography, the number of businesses within the Region, and the multiple downtowns throughout the Region, it was determined that it was not economically feasible to continue recycling collection, and that the collection service will be discontinued.

# 10. Next Meeting

The next regularly scheduled meeting of the EFW-WMAC will be held on Thursday, September 23, 2025, in Council Chambers, at 7:00 PM, Regional Headquarters, 605 Rossland Road East, Whitby.

# 11. Adjournment

Moved by G. Rowden, Seconded by A. Mohan, That the meeting be adjourned. CARRIED

The meeting adjourned at 7:41 PM.

G. Baswick, Chair, Energy from Waste – Waste Management Advisory Committee

S. Ciani, Committee Clerk