



The Regional Municipality of Durham COUNCIL INFORMATION PACKAGE

Friday, March 22, 2024

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There is no Miscellaneous Correspondence.

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There are no Advisory/Other Committee Minutes

Members of Council – Please advise the Regional Clerk at clerks@durham.ca, if you wish to pull an item from this CIP and include on the next regular agenda of the appropriate Standing Committee. Items will be added to the agenda if the Regional Clerk is advised not later than noon the day prior to the meeting, otherwise the item will be included on the agenda for the next regularly scheduled meeting of the applicable Committee.

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The Regional Municipality of Durham Information Report

From: Acting Commissioner of Works
Report: #2024-INFO-17
Date: March 22, 2024

Subject:

Durham York Energy Centre 2023 Compliance Source Test Update

Recommendation:

Receive for information

Report:

1. Purpose

1.1 The purpose of this report is to provide an update on the 2023 Compliance Source Test results for the Durham York Energy Centre (DYEC).

2. Background

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

3. Compliance Source Test

3.1 The Compliance Source Test was conducted between September 19, 2023, and October 4, 2023, for all test contaminants on Boiler #1 and Boiler #2.

3.2 The results summary of the Compliance Source Test demonstrated that all emissions were within the limits detailed in the ECA (Attachment #1).

- 3.3 The full Compliance Source Test Report was sent to the Ministry of Environment, Conservation and Parks (MECP) and posted to the project website.
- 3.4 The DYEC emissions dispersion was modelled utilizing the Compliance Source Test data and the MECP approved CALPUFF model. The results of the contaminant concentrations at the maximum point of impingement were then compared to the limits within the Ontario Regulation 419/05 Air Pollution – Local Air Quality, which is set to protect human health and the environment.
- 3.5 All of the calculated impingement concentrations were well below the regulatory limits.

4. Owners' Consultant Reviews

- 4.1 Ausenco, the Source Test peer reviewer, provided their Final Report (Attachment #2) to the Region on January 30, 2024. Ausenco concluded that from their review of the draft Source Testing Report, combined with on-site observations, there are no major concerns with regards to the conduct of the source testing, the analytical analysis, or the analytical calculations and therefore, no concerns about the validity of the source testing data reported by Ortech especially with regard to comparisons to the relevant in-stack limits.
- 4.2 Ausenco's report highlighted minor discrepancies in the air modelling and recommended a review of the model outputs and a revision of the modelling results as needed. The report has been shared with Covanta to follow up with WSP accordingly. Ausenco also noted that the minor discrepancies found in the modelling are not likely to change the compliance status of the facility and that revisions of the dispersion modelling are recommended for completeness only.
- 4.3 HDR personnel were also present during the Source Tests. In their report (Attachment #3), they noted that their representatives were present at the DYEC to observe the sampling procedures and facility operations during a portion of the testing period between September 19 and October 4. HDR observed that ORTECH followed the approved stack sampling procedures and test methods outlined in the test plan. HDR also observed Covanta's plant personnel operating the DYEC under normal operating conditions and in accordance with the ECA and generally accepted industry operating standards. HDR concluded that based on the results summarized in ORTECH's final test report, dated December 19, 2023, the air emission results of the Fall 2023 Mandatory Test demonstrated that the DYEC operated below the ECA's Schedule C limits.

- 4.4 DYEC demonstrates consistent performance with the appropriate controls and monitoring, which provide safety and protection for human health and the environment.
- 4.5 The results of testing completed from 2019-2023 are presented in Attachment #4. The data presented indicates that the DYEC has consistently demonstrated that it does safely and effectively operate within the ECA Schedule C limits.
- 4.6 A table comparison of the latest source testing results against the ECA limits and A-7 guideline is presented in Attachment #5, which shows DYEC consistently operates and performs below regulatory limits.

5. Conclusion

- 5.1 The Owners' technical consultants and peer reviewers have confirmed that the Compliance Source Test was conducted in accordance with the Ministry of the Environment, Conservation and Parks' guidelines.
- 5.2 All results of the Compliance Source Test were below the concentration limits prescribed in Schedule C of the Environmental Compliance Approval.
- 5.3 Using approved dispersion modelling techniques, the predicted maximum point of impingement concentrations, based on the average test results for both boilers, show Durham York Energy Centre 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.
- 5.4 For additional information, contact: Andrew Evans, Director, Waste Management Services, at 905-668-7711 extension 3445.

6. Attachments

Attachment #1: Compliance Source Test Results Summary

Attachment #2: Ausenco 2023 Compliance Source Test Final Report

Attachment #3: HDR Inc. 2023 Compliance Source Test Technical Memorandum

Attachment #4: Source Test Results 2019-2023

Attachment #5: Comparison Table: 2023 Compliance Source Test Results
Compared to ECA limits and Ontario A-7 Guideline

Respectfully submitted,

Original signed by:

Ramesh Jagannathan, M.B.A, M.ENG., P.ENG., P.T.O.E.
Acting Commissioner of Works

Attachment #1 to Report #2024-INFO-17

EXECUTIVE SUMMARY

ORTECH Consulting Inc. (ORTECH) completed the annual compliance emission testing program at the Durham York Energy Centre (DYEC) located in Courtice, Ontario between September 19 and October 4, 2023. The emission testing program was performed to satisfy the requirements of the Ontario Ministry of the Environment, Conservation and Parks (MECP) 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. 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 by ORTECH to date is provided below:

Test Program	Test Date	ORTECH 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

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.

Attachment #1 to Report #2024-INFO-17

Triplicate 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. Triplicate 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 _{2.5} /PM ₁₀ 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	ORTECH per US EPA Method 25A

Schedule C of ECA No. 7306-8FDKNX lists in-stack limits for the emissions of various compounds. In-stack 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 2023, 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 (September 19 to September 22, 2023 for Boiler No. 1, and September 20 to September 21 and October 3 to October 4, 2023 for Boiler No. 2) was used to determine the minimum, average and maximum concentrations of the combustion gases listed in the ECA. Concentration data measured by ORTECH on September 19 and September 20, 2023 was used to assess against the total hydrocarbons (organic matter) in-stack emissions limit detailed in Schedule C of the ECA.

Attachment #1 to Report #2024-INFO-17

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 was used to conservatively estimate 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 April 27, 2018, 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)*	-	-	-	386	-
Average Combustion Zone Temp. (°C)*	-	-	-	1308	-
Steam (tonnes/day)*	-	-	-	792	-
MSW Combusted (tonnes/day)*	-	-	-	211	-
NO _x Reagent Injection Rate (liters/day)*	-	-	-	733	-
Carbon Injection (kg/day)*	-	-	-	128	-
Lime Injection (kg/day)*	-	-	-	3778	-
Filterable Particulate (mg/Rm ³) ⁽¹⁾	0.34	0.78	0.58	0.57	9
PM ₁₀ with Condensable (mg/Rm ³) ⁽¹⁾	<3.44	2.52	<3.88	<3.28	-
PM _{2.5} with Condensable (mg/Rm ³) ⁽¹⁾	<3.16	2.45	<3.69	<3.10	-
Hydrogen Fluoride (mg/Rm ³) ⁽¹⁾	<0.11	<0.11	<0.11	<0.11	-
Ammonia (mg/Rm ³) ⁽¹⁾	0.52	0.47	0.37	0.45	-
Cadmium (µg/Rm ³) ⁽¹⁾	0.025	2.39	0.076	0.83	7
Lead (µg/Rm ³) ⁽¹⁾	0.49	0.58	0.60	0.56	50
Mercury (µg/Rm ³) ⁽¹⁾	<0.090	<0.085	<0.092	<0.089	15
Antimony (µg/Rm ³) ⁽¹⁾	<0.041	0.063	0.095	<0.066	-
Arsenic (µg/Rm ³) ⁽¹⁾	<0.041	<0.041	<0.043	<0.042	-
Barium (µg/Rm ³) ⁽¹⁾	0.33	1.58	0.38	0.77	-
Beryllium (µg/Rm ³) ⁽¹⁾	<0.041	<0.041	<0.043	<0.042	-
Chromium (µg/Rm ³) ⁽¹⁾	1.55	1.77	1.35	1.56	-
Cobalt (µg/Rm ³) ⁽¹⁾	0.055	0.025	<0.043	<0.041	-
Copper (µg/Rm ³) ⁽¹⁾	1.96	2.19	2.06	2.07	-
Molybdenum (µg/Rm ³) ⁽¹⁾	6.74	6.99	6.76	6.83	-
Nickel (µg/Rm ³) ⁽¹⁾	0.94	0.92	1.28	1.05	-
Selenium (µg/Rm ³) ⁽¹⁾	<0.20	0.71	<0.21	<0.37	-
Silver (µg/Rm ³) ⁽¹⁾	<0.041	<0.041	<0.043	<0.042	-
Thallium (µg/Rm ³) ⁽¹⁾	<0.041	<0.041	<0.043	<0.042	-
Vanadium (µg/Rm ³) ⁽¹⁾	<0.020	0.033	0.036	<0.030	-
Zinc (µg/Rm ³) ⁽¹⁾	4.78	6.81	6.86	6.15	-
Dioxins and Furans (pg TEQ/Rm ³) ⁽³⁾	<11.2	<11.9	<9.66	<10.9	60
Total Chlorobenzenes (ng/Rm ³) ⁽¹⁾	<242	<216	<258	<239	-
Total Chlorophenols (ng/Rm ³) ⁽¹⁾	<317	<325	<329	<324	-
Total PAHs (ng/Rm ³) ⁽¹⁾	<197	<344	<201	<247	-
VOCs (µg/Rm ³) ⁽¹⁾	<37.8	<28.5	<27.9	<31.4	-
Aldehydes (µg/Rm ³) ⁽¹⁾	465	347	420	411	-
Total VOCs (µg/Rm ³) ⁽¹⁾⁽⁴⁾	<503	<376	<448	<442	-
Quench Inlet Organic Matter (THC) (ppm, dry) ⁽²⁾	0.7	0.5	0.4	0.5	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)*	-	-	-	360	-
Average Combustion Zone Temp. (°C)*	-	-	-	1280	-
Steam (tonnes/day)*	-	-	-	798	-
MSW Combusted (tonnes/day)*	-	-	-	210	-
NO _x Reagent Injection Rate (liters/day)*	-	-	-	504	-
Carbon Injection (kg/day)*	-	-	-	127	-
Lime Injection (kg/day)*	-	-	-	3827	-
Filterable Particulate (mg/Rm ³) ⁽¹⁾	0.41	0.50	<0.37	<0.43	9
PM ₁₀ with Condensable (mg/Rm ³) ⁽¹⁾	<4.86	<3.56	<3.31	<3.91	-
PM _{2.5} with Condensable (mg/Rm ³) ⁽¹⁾	<4.59	<3.43	<3.25	<3.76	-
Hydrogen Fluoride (mg/Rm ³) ⁽¹⁾	<0.11	<0.10	<0.11	<0.11	-
Ammonia (mg/Rm ³) ⁽¹⁾	0.52	0.53	0.49	0.51	-
Cadmium (µg/Rm ³) ⁽¹⁾	0.80	0.021	0.28	0.37	7
Lead (µg/Rm ³) ⁽¹⁾	0.31	0.24	0.21	0.25	50
Mercury (µg/Rm ³) ⁽¹⁾	<0.075	<0.085	<0.089	<0.083	15
Antimony (µg/Rm ³) ⁽¹⁾	<0.043	<0.042	0.062	<0.049	-
Arsenic (µg/Rm ³) ⁽¹⁾	<0.043	<0.042	<0.043	<0.043	-
Barium (µg/Rm ³) ⁽¹⁾	1.49	1.25	1.31	1.35	-
Beryllium (µg/Rm ³) ⁽¹⁾	<0.043	<0.042	<0.043	<0.043	-
Chromium (µg/Rm ³) ⁽¹⁾	0.86	0.84	1.20	0.97	-
Cobalt (µg/Rm ³) ⁽¹⁾	<0.022	<0.021	<0.022	<0.021	-
Copper (µg/Rm ³) ⁽¹⁾	1.63	1.58	1.68	1.63	-
Molybdenum (µg/Rm ³) ⁽¹⁾	7.81	7.23	7.60	7.55	-
Nickel (µg/Rm ³) ⁽¹⁾	0.43	0.53	0.83	0.60	-
Selenium (µg/Rm ³) ⁽¹⁾	0.32	<0.21	0.23	<0.25	-
Silver (µg/Rm ³) ⁽¹⁾	<0.043	<0.042	<0.043	<0.043	-
Thallium (µg/Rm ³) ⁽¹⁾	<0.043	<0.042	<0.043	<0.043	-
Vanadium (µg/Rm ³) ⁽¹⁾	0.031	0.033	0.032	0.032	-
Zinc (µg/Rm ³) ⁽¹⁾	3.78	3.84	3.98	3.87	-
Dioxins and Furans (pg TEQ/Rm ³) ⁽³⁾	<2.92	<2.35	<8.01	<4.43	60
Total Chlorobenzenes (ng/Rm ³) ⁽¹⁾	<238	<265	<290	<264	-
Total Chlorophenols (ng/Rm ³) ⁽¹⁾	NQ	NQ	NQ	NQ	-
Total PAHs (ng/Rm ³) ⁽⁵⁾	<192	<617	<481	<430	-
VOCs (µg/Rm ³) ⁽¹⁾	<66.2	<56.1	<50.8	<57.7	-
Aldehydes (µg/Rm ³) ⁽¹⁾	<738	<461	<544	<581	-
Total VOCs (µg/Rm ³) ⁽¹⁾⁽⁴⁾	<804	<517	<595	<639	-
Quench Inlet Organic Matter (THC) (ppm, dry) ⁽²⁾	0.8	0.3	0	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).

(5) Total chlorophenols were not quantifiable (NQ) due to spike recovery losses during the extraction of the samples by the analytical laboratory.

Attachment #1 to Report #2024-INFO-17

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
Boiler No. 1	Carbon Monoxide (mg/Rm ³) ⁽¹⁾	3.5	8.1	13.5	40
	Hydrogen Chloride (mg/Rm ³) ⁽²⁾	0.7	1.0	1.5	9
	Nitrogen Oxides (mg/Rm ³) ⁽²⁾	108	109	111	121
	Sulphur Dioxide (mg/Rm ³) ⁽²⁾	0	0	0	35
Boiler No. 2	Carbon Monoxide (mg/Rm ³) ⁽¹⁾	6.3	9.9	14.3	40
	Hydrogen Chloride (mg/Rm ³) ⁽²⁾	3.0	3.1	3.3	9
	Nitrogen Oxides (mg/Rm ³) ⁽²⁾	110	111	111	121
	Sulphur Dioxide (mg/Rm ³) ⁽²⁾	0	0.03	0.1	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 766 tonnes of steam per day for each Boiler (approximately 94.9% 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.

Peer Review of Compliance 2023 Source Testing



Photo Credit: <https://www.plant.ca/features/cleaner-burn/>

Prepared for:

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Project No. 106916-02

January 30, 2024

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Disclaimer

Attachment #2 to Report #2024-INFO-17

This work was performed in accordance with the Consulting/Professional Services agreement between Ausenco Sustainability ULC, a wholly owned subsidiary of Ausenco Engineering Canada Inc. (Ausenco), and The Regional Municipality of Durham (Client), dated April 3, 2023 (Contract). This report has been prepared by Ausenco, based on fieldwork conducted by Ausenco, for sole benefit and use by The Regional Municipality of Durham. In performing this work, Ausenco has relied in good faith on information provided by others and has assumed that the information provided by those individuals is both complete and accurate. This work was performed to current industry standard practice for similar environmental work, within the relevant jurisdiction and same locale. The findings presented herein should be considered within the context of the scope of work and project terms of reference; further, the findings are time sensitive and are considered valid only at the time the report was produced. The conclusions and recommendations contained in this report are based upon the applicable guidelines, regulations, and legislation existing at the time the report was produced; any changes in the regulatory regime may alter the conclusions and/or recommendations.

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Appendix A AES Field Notes

List of Acronyms and Abbreviations

Acronym / Abbreviation	Definition
ADMP	Air Dispersion Modelling Plan
AES	Adomait Environmental Services
CARB	California Air Resources Board
CB	Chlorobenzenes
CEM	Continuous Emissions Monitoring
CO	Carbon Monoxide
CP	Chlorophenols
D/F	Dioxins and Furans
DYEC	Durham York Energy Centre
ECA	Environmental Compliance Approval
HCl	Hydrogen Chloride
HF	Hydrogen Fluoride
MECP	Ministry of the Environment, Conservation and Parks
NO _x	Nitrogen Oxides
O ₂	Molecular Oxygen
O. Reg. 419/05	Ontario Regulation 419/05
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
POI	Point of Impingement
QA/QC	Quality Assurance/Quality Control
SO ₂	Sulfur Dioxide
SVOCs	Semi-volatile organic compounds
TEQ	Toxic Equivalent
THC	Total Hydrocarbons

List of Symbols and Units of Measure

Symbol / Unit of Measure	Definition
g/s	gram per second
kg/hour	kilogram per hour
ppm	parts per million
m ³ /hour	cubic metre per hour
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 ³	picogram of toxic equivalents per reference cubic metre
°F	degrees Fahrenheit
°C	degrees Celsius
%	percent

1.0 Introduction

Ausenco Sustainability Inc. (Ausenco) was retained by The Regional Municipality of Durham (the Region) to provide oversight and expertise in air emissions source testing at the Durham York Energy Centre (DYEC) for the 2023 operating year. Compliance Source Testing was conducted the week of September 18th, with testing for semi-volatile organic compounds (SVOCs) and dioxins/furans occurring on September 21st and 22nd. However, due to repairs required on Boiler 2, dioxin and furan sampling for Unit 2 occurred on October 3rd and 4th. Source testing was completed by ORTECH Consulting Inc. (Ortech), while laboratory analysis of the samples was completed by ALS Canada Ltd. (ALS).

As per the agreement between Ausenco and the Region, the entire scope of the peer review of the report produced by Ortech included the following:

1. Review of Laboratory Procedures and Results (excluding audit review of actual laboratory work).
2. Review of Ortech report¹, including results and discussions from testing campaign.
3. Review of Dispersion Modelling conducted as part of ECA condition 6.1 and Schedule B (excluding odour modelling). This included:
 - a. Ensuring that emission estimates were calculated correctly from stack testing samples and laboratory results.
 - b. Ensure that dispersion modelling was conducted in accordance with O. Reg. 419/05, and related guidance, such as the MECP's "Air Dispersion Modelling Guideline for Ontario, Version 3.0", dated February 2017 (Updated: April 17, 2023).

This report completes and summarizes all the above required tasks.

¹ Ortech, July 25, 2023. Covanta Durham York Renewable Energy Limited Partnership, Durham York Energy Centre, 2023 Voluntary Compliance Emission Testing Program. Report No. 22230. 804 pp.

2.0 On-Site Source Testing Observations

On-site auditing of the testing was sub-contracted to, and completed by, Adomait Environmental Solutions Inc. (AES), led by Martin Adomait, M.Sc., P.Eng. AES staff were on on-site during stack testing for the two (2) days of sampling for SVOCs, including dioxins and furans (D/F). The on-site review of the Stack Sampling Protocol ensures that it follows sampling methods described in the Ontario Source Testing Code and includes a review of:

1. On-site assessment 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 January 16th, 2024. They are replicated here for completeness and to provide the Region with a single document summarizing the entirety of the peer review.

2.1 Observations of Process Operations Centre

The auditor was stationed with Covanta's environmental engineer in a conference room equipped with a screen to display real-time data related to parameters being monitored. In addition, Excel files containing one-minute data corresponding to the stack testing periods were provided to the auditor. The one-minute data included parameters monitored in previous audits, except for the quench-tower inlet/outlet temperatures and moisture levels. The temperatures were provided separately, reporting at 10-minute intervals; however, moisture data could only be accessed directly from the system monitors in the control room. Moisture levels are not considered a significant parameter for the purpose of this audit and have not been recorded for the audit since June 2020. AES staff were in regular contact with Covanta's environmental engineer, who is the primary contact for production issues, should they have arisen.

The auditing process involved reviewing the Excel files, monitoring the real-time display of trending data, taking note of anomalies and discussing deviations with facility staff and any measures taken as a result. In addition, rolling averages were calculated from the 1-minute data, consistent with performance requirements, as a measure of the unit's performance during the testing. The rolling averages included:

- O₂ – 60-minute rolling average
- CO – 4-hour rolling average
- NO_x – 24-hour rolling average (in this case, portion of day that data was collected)

Source tests for dioxin and furans for both Units 1 and 2 are typically run concurrently. However, it was necessary to take Unit 2 offline due to plugging of the feed chute for Boiler 2. The timing of this incident prevented Unit 2 from being tested concurrently with Unit 1. Unit 1 was tested on September 21st and 22nd, while Unit 2 was tested on October 3rd and 4th, 2023.

The following observations of the Process Operations Center were made during the stack testing:

1. As a general observation, parameters being recorded for this review maintained stable readings throughout the observation periods. The few deviations that were observed, such as CO spikes, were typical of previous tests and generally did not persist beyond one minute.
2. Oxygen concentrations, calculated as a 60-minute rolling average, ranged from 7.1 to 8.0%. The ECA specifies that the 60-minute average oxygen concentration shall not be less than 6% as recorded by the Continuous Emission Monitoring (CEM) system.
3. CO concentrations were generally stable throughout the tests, ranging between 1.7 and 58.1 ppm. The calculated 4-hour average ranged from 6.7 to 11.1 ppm, well below the in-stack emission limit of 35 ppm. Occasional spikes in CO concentration were less than 59 ppm and were likely cold CO spikes that may be attributed to incomplete combustion. Generally, the CO spikes returned to typical CO concentrations within one to three minutes. The occurrence of CO spikes is normal, and the immediate suppression of spikes indicate that the systems are operating effectively.
4. The combustion zone temperatures for each boiler were maintained above the minimum temperature of 1000°C.
5. The average NO_x concentrations for the hours of testing each day ranged between 109 and 111 ppm which is below the emission limit of 121 ppm calculated as a 24-hour rolling arithmetic average.
6. The quench tower inlet and outlet temperatures showed consistent control, reducing inlet temperatures by 9.4°C to 11.2°C on average. The inlet temperatures varied within a 7-degree band, with daily averages ranging from 76°C to 78°C (169°F to 172°F). A gradual rise in temperature over the day was observed for both Units. The outlet temperatures remained within 65°C to 69°C (approximately 150°F to 156°F).
7. As a result of consistent outlet temperatures from the Quench tower, the baghouse inlet temperatures remained steady, generally between 140°C and 145°C for Unit 1 and between 143°C and 147°C for Unit 2. This is approximately the midpoint of the performance range 120°C to 185°C required as set out in the ECA (Section 6(2)(h)). These readings were consistent with observations from previous stack tests (typically in the range of 138°C to 145°C). Consistent temperatures in the baghouse allow comparison between data sets at different times. It is also important when considering the volatilization of various dioxins and furans that may be in particle-bound form in the baghouse. Increased temperatures could volatilize dioxins and furans already captured by the baghouse in particle-bound form.
8. Production at the plant is often evaluated in terms of steam flow. Steam flow was typically in the range of 31 to 35 tonnes/hour per boiler, with recorded readings ranging between 31.3 and 35.0 tonnes/hour. This is within range of the nominal steam generation rate 72 tonnes/hour of steam listed in the ECA. The production was similar to levels observed during other stack testing campaigns at this plant. Similar production also makes the comparison between different stack tests possible.
9. Carbon and lime dosage were generally consistent with the previous testing campaigns. Carbon doses typically ranged between 5 to 6.5 kg/hour, which is similar to previous years.

10. The lime feed rate ranged between 152 and 170 kg/hour, averaging about 159 kg/hr for both units. This is 5 to 10% less than in previous years due in part to the absence of conditions, such as elevated HCl concentrations, that would trigger an increase in the lime feed rate. No elevated lime feed rates were observed. The acquired 1-minute data for HCl concentrations demonstrate levels well below the permit limits, indicating that the lime control and wetting mixer systems are operating effectively.
11. Airflow remained stable throughout the stack tests. Airflow for Unit 1 generally ranged between 90,000 to 97,000 m³/hour and Unit 2 ranged between 93,000 and 97,000 m³/hour.

2.2 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**.

1. Dioxin and furan testing was initially delayed during the week of September 18, 2023. Testing reconvened on Boiler 1 on September 21, 2023, but the audit team was only present to witness the testing on September 22, 2023. Sampling on Boiler 2 was delayed to October 3rd and 4th, 2023. The audit team was present for all three dioxin and furan sampling tests for Boiler 2.
2. 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. The summary of field observations is shown in the tables below. Leak checks were always performed in a systematic and non-rushed manner to ensure good QA/QC. The summary of AES field observations is provided in **Appendix A**.
3. Previous aberrations in the velocity measurements, mainly due to the negative pressure conditions, were reduced by using metal plates and rubber sealer plates to eliminate these problems.
4. Impinger/XAD temperatures were checked approximately every half hour at each sampling train. Ortech supplied plenty of ice to the crews. The temperatures were maintained in the 3.9°C to 8.3°C (39°F to 47°F). Maintaining low XAD temperatures improves adsorption of dioxins/furans on the sampling media.
5. The audit team also recorded dry gas meter correction and pitot factors for comparison with the final report.
6. All trains operating at the baghouse outlet locations were inserted and withdrawn from the stack while the sampling train was running. Given the high negative pressure at these locations, it was important to ensure that the filter was not displaced prior to sampling beginning. It also limits loss of any sample from the train.

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

3.0 Report Review

The Region provided Ortech's final report (the "Report") to Ausenco on January 4th, 2024. The following sections provide Ausenco's review of the Report and include an opinion regarding the sufficiency and accuracy of the submitted analyses.

3.1 Review of Source Testing Protocols

AES has conducted a thorough review of the source testing report and has found no discrepancies between the methods described in the report compared to the observations made during testing. AES is satisfied that all sampling protocols were followed according to appropriate methodologies. Consequently, AES has no concerns over the validity of collected samples, prior to shipment to the laboratory for analysis.

3.2 Review of Analytical Reporting

Ausenco has conducted a thorough review of the source testing report. As per the contract with the Region, focus was given to SVOCs. Based on this review, Ausenco provides the following comments:

1. As per the contract with the Region, the processing, handling, and analysis of laboratory samples were not audited as part of this peer review. Therefore, no statement of efficacy is provided regarding the processing, handling, and analysis of laboratory samples.
2. It is noted that both Ortech and ALS methods for collecting and analyzing SVOCs deviate slightly from reference methods. However, the potential biases and complications from these deviations have been discussed in previous source testing reviews and, therefore, are not discussed further here.
3. 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 (70% – 130%).
 - b) The recoveries of Extraction Standards for all D/F samples are within the acceptable range of recoveries provided in Environment Canada Reference Method EPS 1/RM/2, which is either 40% – 130% or 25 – 130%, depending on the specific D/F.
 - c) The recoveries of Cleanup Standards of all D/F samples were within the acceptable range of recoveries provided in Environment Canada Reference Method EPS 1/RM/2 (40% – 130%).
 - d) Ausenco has conducted a review of the D/F congener group emission rate calculations (ng/s). Starting with the reported laboratory data, Ausenco was able to trace and confirm the calculations presented by Ortech provided in Section 7.9.1 (Page 46).
 - e) Ausenco has conducted a review of the D/F and dioxin-like PCB toxic equivalents (TEQ's) emission rate calculations (ng TEQ/s). Starting with the reported laboratory data, Ausenco was able to trace and confirm the calculations presented by Ortech provided in Section 7.9.1 (Page 48).
 - f) A review of the in-stack D/F dry adjusted TEQ concentration was conducted. Ausenco was able to trace and confirm the in-stack TEQ concentration calculations presented by Ortech (see Section 7.9.1, Page 48) and confirm that the D/F TEQ concentrations are below the maximum in-stack limit of 60 pgTEQ/Rm³.

4. 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%).
- b) The recoveries of Field Spike Standards of all PCB samples were within the acceptable range of recoveries provided in US EPA Method 1668C (70% – 130%).
- c) 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%).
- d) 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.

5. Chlorobenzenes

- a) The analytical reports indicate that 13C6-chlorobenzene was not adequately recovered for the field blank. Consequently, no data for chlorobenzene has been provided for this sample. However, as indicated below, samples were not blank corrected. Therefore, this will not impact the conclusions of the report.
- b) The analytical reports also indicate that the method blank and laboratory control sample (LCS) had recoveries of labelled standards below typical values. However, no significant bias to the sample results is expected given that the target analyte recoveries are all in control for the LCS. This is a valid assumption; therefore, the poor recoveries of labelled standards in these samples will not impact the conclusions of the report.
- c) 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.
- d) Ausenco has conducted a review of the chlorobenzene emission rate calculations ($\mu\text{g/s}$). Starting with the reported laboratory data, Ausenco was able to trace and confirm the calculations presented by Ortech provided in Section 7.9.2 (Page 49).
- e) Ausenco was previously informed that Ortech had engaged in discussions with ALS about alternate analytical methods to improve recovery of monochlorobenzene. Based on those discussions, an alternative analytical method was chosen for analysis for this Compliance Source Testing campaign to improve monochlorobenzene recovery. We have reviewed the correspondences between ALS, Ortech and Covanta. Based on this review, we believe that all due diligence was done to ensure an appropriate method was used to analyse for monochlorobenzene. This included informing the Standards Development Branch at the MECP of the proposed alternative analytical method. The MECP noted the change and had no concerns provided monochlorobenzene was reported from an acceptable test method. Furthermore, given that the modelled concentrations for monochlorobenzene are seven to eight orders of magnitude below the corresponding guidelines over the past three testing campaigns, the variation in analysis method does not impact the conclusion regarding potential exposures to monochlorobenzene, which is extremely small.

6. 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. CP sample concentrations were not corrected for this low bias; however, all CP sample concentrations were found to be below the detection limit. Therefore, 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) Ortech (January 2024: p. 35) noted that “Di- to penta- chlorophenol data could not be reported on the Boiler No. 2 samples due to an absence of recovery on the corresponding extraction standards.” A review of past sampling events indicated that CP samples have been consistently reported as below the detection limit, which is consistent with the samples collected here. Therefore, the current samples could also be anticipated as having levels below the detection limit. Consequently, there is no concern that CP POI values may be over and above relevant ambient air quality standards.
- c) Given that CPs in all samples were found to be below detection limit, emission rates for each compound were estimated based on the assumption that each analyte was at a concentration equal to the detection limit. This is an accepted methodology and provides a worst-case assumption to determine potential impacts.
- d) Ausenco has conducted a review of the chlorophenol emission rate calculations ($\mu\text{g/s}$). Starting with the reported laboratory data, Ausenco was able to trace and confirm the calculations presented by Ortech provided in Section 7.9.2 (Page 50).

7. 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%. This includes all tests on APC Outlet #1 and all tests on APC Outlet #2. 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, as discussed above, 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) Ausenco has conducted a review of the PAH emission rate calculations ($\mu\text{g/s}$). Starting with the reported laboratory data, Ausenco was able to trace and confirm the calculations presented by Ortech provided in Section 7.9.3 (Page 51).

3.3 Review of Dispersion Modelling

To complete the review of the modelling conducted as part of the source testing, the Region provided the most recent "Air Dispersion Modelling Plan" prepared by Golder, dated July 2020 (the "ADMP"). This report was prepared to outline the proposed dispersion modelling approach for the DYEC for future ECA amendment applications. This plan report was used for comparison to the source testing modelling, which was completed by WSP. WSP's modelling memorandum is provided as Appendix 27 of Ortech's report. The Region provided Ausenco with all relevant modelling files (e.g., input files, output files, etc.) for review.

Based on this review, Ausenco provides the following comments:

1. As noted above, the emission rates of multiple chlorophenol compounds could not be reported for Boiler No. 2. To account for this missing data, WSP doubled the emission rate data from Unit No. 1. This is an acceptable approach to estimate facility-wide emissions given that, historically, CP samples have been consistently reported as below the detection limit.
2. Ausenco confirmed that the CALPUFF and CALPOST version numbers and level numbers used in the model (as indicated in the corresponding input file) matches those provided in WSP's memorandum.
3. Ausenco confirmed that the CALPUFF options outlined in Table 2 of WSP's memorandum matches Table B1 of the ADMP.
4. Ausenco also confirmed that for modelling years 2014 and 2017 all CALPUFF options and flags within the supplied input files matched Table B1 of the ADMP. The 2017 year was chosen for review as it provided the highest 1-hr, 24-hr, and annual Point of Impingement (POI) values.
5. Ausenco confirmed the source parameters provided in Table 3 of WSP's memorandum relative to the source testing results.
6. For the 2015 and 2017 years, Ausenco confirmed that the CALPUFF input file contained one (1) point source with stack height, and diameter corresponding to the values in Table 3 of WSP's memorandum. The input file also utilized a unit emission rate (i.e., 1 g/s).
7. As a worst-case scenario, Ausenco 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 years modelled. The values provided in the report agreed extremely well with the output files.

Averaging Period	10-min	½-hr	1-hr	24-hr	30-day	Annual
WSP Dispersion Factor before meteorological anomaly removal [$\mu\text{g}/\text{m}^3$ per g/s]	48.08	34.97	29.14	1.24	0.17	0.06
Output File Dispersion Factor without meteorological anomaly removal [$\mu\text{g}/\text{m}^3$ per g/s]	48.13	35.38	29.14	1.24	0.17	0.06

8. To review the Emission Summary Table provided (Appendix B of WSP's memorandum), a small number of critical chemicals were chosen to ensure that emission rates were multiplied by the Dispersion Factor shown in Table 4. In all cases, POI values were appropriately estimated for the corresponding averaging time. The list of substances reviewed were:
 - a. Benzo(a)pyrene
 - b. Naphthalene
 - c. Chlorobenzene
 - d. Dioxins, Furans, and Dioxin-like PCBs

Based on the above review, there are no concerns with the conduct of the modelling. POI values presented in Appendix B of WSP's memorandum of the report provide a conservative estimate of potential impacts and are well below MECP criteria.

4.0 Conclusions

In conclusion, the review of the Source Testing Report, combined with our on-site observations, has not revealed any major concerns with regard to the conduct of the source testing, the analytical analysis, or the analytical calculations. Therefore, at this time, there are no concerns about the validity of the source testing data reported by Ortech especially with regard to comparisons to the relevant in-stack limits.

With regard to monochlorobenzene recoveries, Ausenco has been informed that Ortech has engaged discussions with ALS about alternate analytical methods to recover monochlorobenzene. We recommend these discussions continue, and any alterations to the method for the 2023 source testing be clearly outlined in Ortech's report, including the potential implications on the analytical results for other SVOCs.

Ausenco has confirmed that WSP conducted the modelling 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 review our comments and revise the modelling as needed. 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.

5.0 Closure

We have appreciated the opportunity of working with you on this project and trust that this report is satisfactory to your requirements. Please feel free to contact the undersigned regarding any questions or further information that you may require.

Report prepared by:
Ausenco Sustainability Inc.

Report prepared by:
Adomait Environmental Solutions Inc.

ORIGINAL SIGNED

ORIGINAL SIGNED

Lucas Neil, PhD
Project Manager, Atmospheric Services

Martin Adomait, M.Sc., P.Eng.

Appendix A

AES Field Notes

	Semi-Volatiles-1		Semi-Volatiles-1	
Date	Sept. 22/23		Oct. 3/23	
Observation	Boiler #1		Boiler #2	
Nozzle Size/Type	0.2501		0.2498	
Meter Cal/ID	Aug. 30/23 1.049		Sept. 11/23 0.992	
Pitot cal	0.843		0.843	
Calc Moisture	16			
Static	-9.78			
Pitot Leak Check	Yes		Yes	
Pre-traverse Leak Check			0.003@ 15"	
SVOC Test Start Time	7:52		8:08	
Running On Insertion			yes	
Stack temperature °F	288,289		294	
Trap temperature °F			47, 48, 48	
Running on removal	9:52		yes	
Traverse Completed			10:08	
Post-traverse Leak Check			0.004@ 15"	
Pre-traverse Leak Check		0.005@15"		0.002 @15"
Running On Insertion		yes		yes
SVOC Traverse Start Time		9:59		10:18
Trap temperature °F		47,47,45		49, 50, 48
Traverse Completed		11:59		12:19
Final Leak Check		0.002@ 15"		0.002 @ 15"
Running on removal		yes		yes

	Semi-Volatiles-2		Semi-Volatiles-3	
Date	Oct. 3/23		Oct. 4/23	
Observation	Boiler #2		Boiler #2	
Nozzle Size/Type	0.2510		0.2498	
Meter Cal/ID	Sept. 11/23 0.992		Sept. 11/23 0.992	
Pitot cal	0.848		0.843	
Calc Moisture				
Static				
Pitot Leak Check	yes		yes	
Pre-traverse Leak Check	0.003@ 15"		0.004@ 15"	
SVOC Test Start Time	12:56		8:16	
Running On Insertion	yes		yes	
Stack temperature °F	266, 267		292, 293, 294	
Trap temperature °F	53, 50		56, 54, 55, 55, 53, 51	
Traverse Completed	14:55		10:15	
Post-traverse Leak Check	0.003@ 15"		0.003@ 15"	
Running on removal	yes		yes	
Pre-traverse Leak Check		0.004@ 15"		0.003@ 15"
SVOC Traverse Start Time		15:04		10:23
Stack temperature °F		292, 292, 293, 293, 298		292, 292, 293, 291, 285
Trap temperature °F		51, 51, 48, 49, 49		55, 54, 53, 51, 53, 50
Traverse Completed		17:05		12:23
Final Leak Check		0.002@ 15"		0.002@ 15"
Running on removal		yes		yes



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Technical Memorandum

To: Andrew Evans, PEng, Region of Durham

Cc: Lipika Saha, PEng (Region of Durham)
Muneeb Farid, PEng (Region of York)
Annette Scotto, Kirk Dunbar, Alan Cremen, John Clark (HDR)

From: Bruce Howie, PE

Date: February 13, 2024 (**Revised March 11, 2024**)

Re: **Durham York Energy Centre: Fall 2023 Stack Test**
HDR Observations During Testing and Summary of Results

Introduction

During the period from September 19th through October 4th, ORTECH Consulting, Inc. (ORTECH) conducted the Mandatory Source Test at the Durham York Energy Center (DYEC) for the Regions of Durham and York. This mandatory 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 September 21st and September 22nd. 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 for the Source Test based on the information provided in the ORTECH Test Report dated December 19, 2023.

HDR Observations during the Compliance Source Test

The tentative testing schedule for the September/October 2023 Mandatory 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 Covanta's operations of the DYEC during test sampling, and to observe ORTECH's sampling procedures and activities. HDR personnel were on-site during the air emission testing on September 21st and September 22nd to observe the source test sampling activities with particular focus on the Method 23 tests for Dioxins/Furans on Unit 1. On September 16, 2023, Unit 2 experienced an unscheduled outage to clear and repair the boiler feed chute that resulted in an upset to isokinetic testing conditions in the unit. As a

result of this outage, source test sampling on Unit 2 for the Method 23 tests for Dioxins/Furans was rescheduled and completed on October 3rd and October 4th. During HDR's time on site, we observed Covanta's operation of the boiler and air pollution control systems for compliance with the ECA and Project Agreement during the test periods. The following is a summary of the key events and observations made by HDR during the sampling days we were on site. Attachment A shows the start and stop times of each test.

Day 3: Thursday, September 21st

Stack testing commenced at 08:07 and was completed at 16:40. All tests for Unit 1 and Unit 2 were completed as scheduled.

The Units 1 and 2 operating parameters listed in the table below (average of data collected at several times over the course of the day) were observed to be within the normal range for both units, with the exception of ammonia flow of Unit 2 for a portion of the day observed by HDR.

Parameter	Normal Range	Unit 1	Unit 2
Steam Load (kg/hr)	32,000-35,000	33,964	33,394
Ammonia (kg/hr)	25-80	29	17
Carbon (kg/hr)	4.5-5.5	5.4	5.2
Steam Outlet Temp (°C)	495-502	504	508
Steam Pressure (bar)	86-90	90	90
Combustion Temps (°C)	>1,000	1,175	1,107
Baghouse dp (mBar)	10-20	20	16

The actual ammonia flow for the testing period (as shown in Attachment B) was 0.52 litres per minute (lpm) and 0.37 lpm on Units 1 and 2 (or 28 kg/hr and 20 kg/hr), respectively. Unit 2 may have operated at a lower ammonia flow versus Unit 1 for a number of reasons, including but not limited to having slightly different operating setpoints for the Low NOx (or LN) system. For example, a higher LN setting, which means adding more tertiary air to the system, will result in the need for less ammonia to meet the NOx emission setpoint. Despite the difference in ammonia flows, both units were observed to be operating below the 121 mg/Rm³ ECA limit.

Day 4: Friday, September 22nd

Stack testing commenced at 07:52 and was completed at 11:59. The Dioxin/Furan tests for Unit 1 were completed as scheduled. Due to a garbage chute plug, the Dioxin/Furan testing on Unit 2 was delayed until October 3rd and October 4th.

The Units 1 and 2 operating parameters listed in the table below (average collected throughout the day) were observed to be within the normal range for both units, with the exception of ammonia flows in Unit 2 for the same reason explained previously.

Parameter	Normal Range	Unit 1	Unit 2
Steam Load (kg/hr)	32,000-35,000	33,512	35,292
Ammonia (kg/hr)	25-80	38	10
Carbon (kg/hr)	4.5-5.5	5.5	5.3
Steam Outlet Temp (°C)	495-502	501	502
Steam Pressure (bar)	86-90	89	90
Combustion Temps (°C)	>1,000	1,149	1,189
Baghouse dp (mBar)	10-20	18.4	14.5

October 3rd and October 4th

The start and stop times for the Unit 2 Dioxin/Furan tests are listed in the table below:

	Run 1	Run 2	Run 3
Unit 2	October 3 rd 8:08-12:19	October 3 rd 12:56-17:05	October 4 th 8:16-12:24

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

Based on HDR's observations of the Source Testing, ORTECH appeared to conduct the testing in accordance with the approved test plan and all applicable standards and procedures. ORTECH was careful during each port change to ensure that the probe was not scraped inside the port during insertion and removal of the probe. In addition, sampling equipment appeared to be assembled properly and in accordance with testing procedures, the ice used in the sample box was replenished in a timely manner, and all required leak checks were conducted. After each completed test, the sampling trains were transported to a trailer located outside the boiler building for sample 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 ORTECH 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 was done in accordance with the test plan and approved procedures.

Attachment B provides a summary of the DYEC operating data recorded by Covanta's distributive control system (or DCS) during the Dioxins/Furans tests. As previously noted, HDR did not observe any 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 operated under normal conditions during the testing.

Summary of Results

Table 1 and Figures 1 and 2 below provide a summary of the DYEC's emissions test results corrected to 11% oxygen as provided in ORTECH's final test report, dated December 19, 2023. . As shown in Table 1, DYEC's emissions from all pollutants were below the ECA's Schedule "C" limits. As a part of HDR's review of the ORTECH report, we completed a review of the data presented and calculations. Based on this review, HDR did not find any errors in the calculations in Ortech's report.

Table 1 – Summary of September/October 2023 Mandatory Source Test Results

Parameter	Units ⁽¹⁾	ECA Limit	Unit 1		Unit 2	
			Result	% of Limit	Result	% of Limit
Particulate Matter (PM)	mg/Rm ³	9	0.57	6.3%	0.43	4.8%
Mercury (Hg)	µg/Rm ³	15	0.089	0.6%	0.083	0.6%
Cadmium (Cd)	µg/Rm ³	7	0.83	11.9%	0.37	5.3%
Lead (Pb)	µg/Rm ³	50	0.56	1.1%	0.25	0.5%
Hydrochloric Acid (HCl) ⁽²⁾⁽³⁾	mg/Rm ³	9	1.0	11.1%	3.1	34.4%
Sulphur Dioxide (SO ₂) ⁽²⁾⁽³⁾	mg/Rm ³	35	0	0.0%	0.03	0.1%
Nitrogen Oxides (NO _x) ⁽²⁾⁽³⁾	mg/Rm ³	121	109	90.1%	111	91.7%
Carbon Monoxide (CO) ⁽²⁾⁽⁴⁾	mg/Rm ³	40	8.1	20.3%	9.9	24.8%
Total Hydrocarbons (THC) ⁽⁵⁾	ppm	50	0.50	1.0%	0.40	0.8%
Dioxins and Furans ⁽⁶⁾	pg TEQ/Rm ³	60	10.90	18.2%	4.43	7.4%

(1) All concentration units are corrected to 25°C and 1 atmosphere, adjusted to 11% oxygen by dry volume

(2) based on process data or CEM data provided by Covanta

(3) maximum calculated rolling arithmetic average of 24 hours of data measured by the DYEC CEMS, dry at 25°C and 1 atmosphere, adjusted to 11% oxygen by volume

(4) maximum calculated rolling arithmetic average of 4 hours of data measured by the DYEC CEMS, dry at 25°C and 1 atmosphere, adjusted to 11% oxygen by volume

(5) average of three one hour tests measured at an undiluted location, reported on a dry basis expressed as equivalent methane

(6) 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

Figure 1 - DYEC Test Results as a Percent of ECA Limit

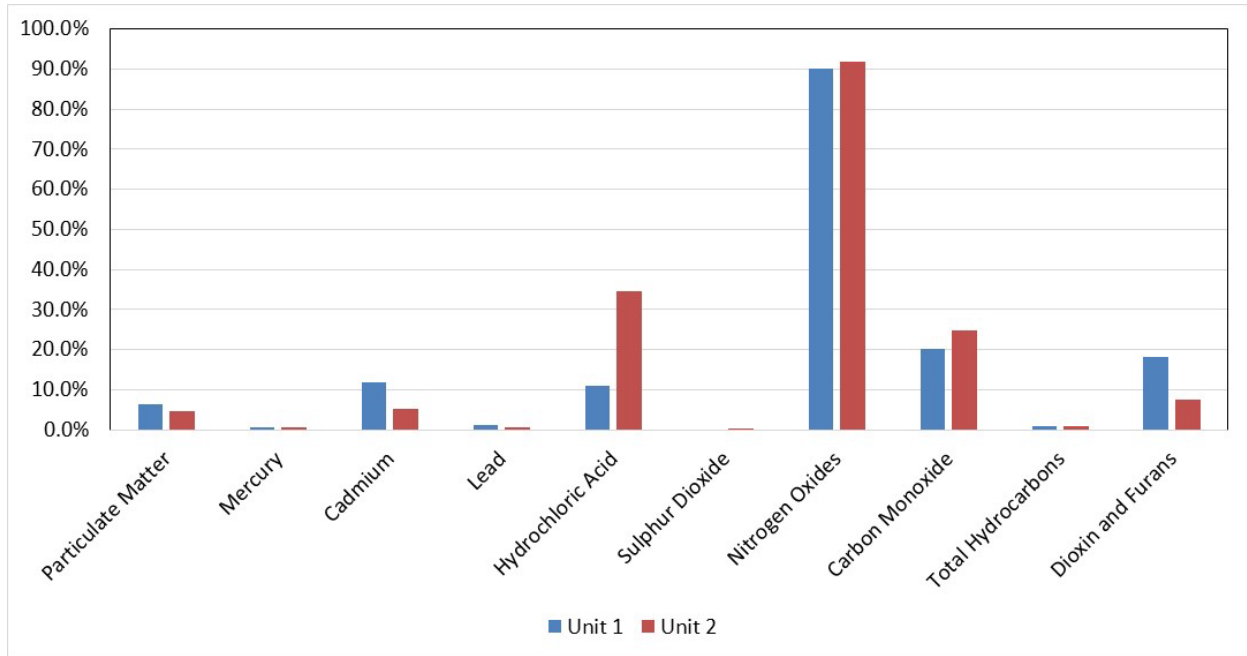
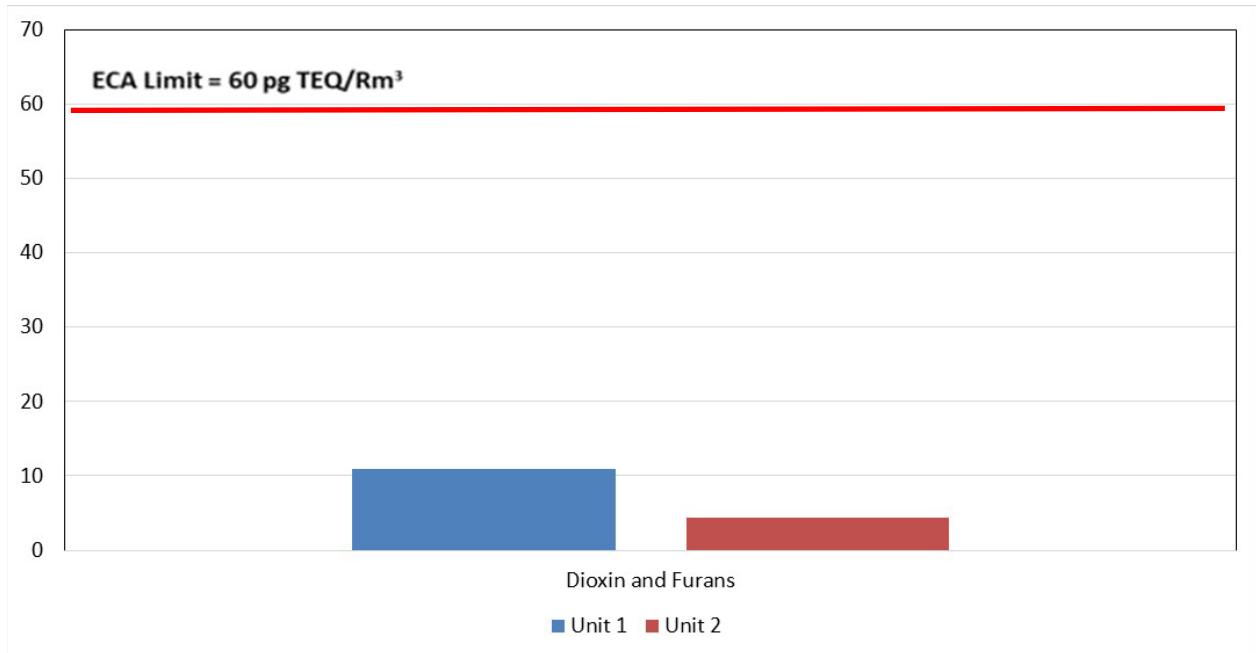


Figure 2 – Test Results for Dioxins and Furans



Conclusions and Recommendations

HDR has completed our review of the final results of the air emissions testing performed during the DYEC Fall 2023 Mandatory Test. Representatives from HDR were present at the DYEC to observe the sampling procedures and facility operations during a portion of the testing period that occurred between September 19th and October 4th. HDR observed that ORTECH appeared to follow the approved stack sampling procedures and test methods as outlined in the test plan. HDR also observed Covanta's plant personnel operating the DYEC under normal operating conditions and in accordance with the ECA and generally accepted industry operating standards. Based on the results summarized in ORTECH's final test report, dated December 19, 2023, the air emission results of the Fall 2023 Mandatory Test demonstrated that the DYEC operated below the ECA's Schedule "C" limits.

Attachments:

Attachment A – Tentative Stack Test Schedule and Summary of Testing Observed by HDR

Attachment B – Summary of Operating Data during Dioxins/Furans Tests

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

DYEC Test Schedule Provided by Ortech.

Tentative Test Schedule

Day/Location		Parameter	Method	# of Runs	Duration
Mon. Sept. 18	#1 & #2 APC	Setup and Prelim. Particulate	Ontario M5	2	60
Tues. Sept. 19	#1 APC Outlet	Particulate/Metals	Ontario M5/EPA M29	2	180
		Hydrogen Fluoride	EPA M26A	3	60
	#2 APC Outlet	Particulate/Metals	Ontario M5/EPA M29	1	180
		PM ₁₀ , PM _{2.5} & Condensables	EPA Method 201A/202	3	120
Wed. Sept. 20	#1 APC Outlet	PM ₁₀ , PM _{2.5} & Condensables	EPA Method 201A/202	3	120
		Particulate/Metals	Ontario M5/EPA M29	1	180
	#2 APC Outlet	Particulate/Metals	Ontario M5/EPA M29	2	180
		Hydrogen Fluoride	EPA M26A	3	60
Thurs. Sept. 21	#1 APC Outlet	Dioxin/Furan	EPS 1/RM/2	2	240
		VOST	SW846-0030	3	40
		Aldehydes	NCASI Method ISS/FP-A105.01	3	60
	#2 APC Outlet	Dioxin/Furan	EPS 1/RM/2	2	240
		VOST	SW846-0030	3	40
		Aldehydes	NCASI Method ISS/FP-A105.01	3	60
Fri. Sept. 22	#1 APC Outlet	Dioxin/Furan	EPS 1/RM/3	1	240
	#2 APC Outlet	Dioxin/Furan	EPS 1/RM/2	1	240

Summary of Testing Observed by HDR.

Day 3: Thursday, September 21, 2023

Unit	Test	Run 1		Run 2		Run 3	
		Start	Stop	Start	Stop	Start	Stop
Unit 1	Dioxins/Furans	8:07	12:14	12:31	16::40	-	-
Unit 2	PM10, PM2.5 Cond	8:22	10:26	11:21	13.25	14:26	16:30

Day 4: Friday, September 22, 2023

Unit	Test	Run 3	
		Start	Stop
Unit 1	Dioxins/Furans	07:52	11:59

NOTE: Dioxin/Furans testing on Unit 2 was postponed until October 3rd and 4th due to a process upset that affected testing conditions. HDR was on-site to observe the rescheduled tests.

Unit	Test	Run 1	Run 2	Run 3
Unit 2	Dioxins/Furans	October 3 rd 8:08-12:19	October 3 rd 12:56-17:05	October 4 th 8:16-12:24

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

Sept/Oct 2023 Mandatory Dioxin Testing Operations Data and Results

Operating Parameter	Boiler 1			Boiler 2		
	Run 1	Run 2	Run 3	Run 1	Run 2	Run 3
	21-Sep	21-Sep	22-Sep	3-Oct	3-Oct	4-Oct
MSW Combusted (tonnes/day)						
Steam (kg/hr)	33,374	33,564	33,517	33,441	33,417	33,326
Steam temp	505	504	504	508	507	507
Primary Air Flow	33,408	33,622	32,376	35,937	35,688	35,961
Overfire Air Flow	8,438	8,403	8,358	8,445	8,423	7,030
Tertiary Air (Fresh LN Air)	9,249	8,929	9,577	8,586	8,540	8,522
Tertiary air temperature °C	35.2	38.5	35.2	36.7	40.2	38.7
Lime Injection (kg/day)	159.2	159.1	159.5	159.7	159.8	160.0
Ammonia Injection Rate (liters/m)	0.5	0.5	0.5	0.4	0.4	0.3
Carbon Injection (kg/hr)	5.3	5.3	5.3	5.3	5.3	5.3
Combustion air preheat temp	114.5	117.0	115.0	114.2	110.0	120.0
Average Combustion Zone Temp °C	1,157	1,128	1,128	1,200	1,212	1,200
Superheater #3 Flue gas inlet Temp °C	565	566	563	591	594	591
Economizer Inlet Temp °C	346	347	346	347	348	348
Economize Outlet Temp °C	170	172	169	172	173	171
Quench Outlet Temp °C	153	152	152	149	149	150
Reactor Outlet (BH Inlet) Temp °C	144	143	144	144	145	145
Baghouse Outlet Temp °C	141	141	141	141	142	141
Tertiary Air Header Pressure mbar	60	60	60	64	63	65
Tertiary Air Left mbar	28	26	31	29	29	29
Tertiary air Right mbar	30	30	32	29	29	29
Baghouse Differential Pressure mbar	21	20	18	15	15	15
Oxygen (%) - Boiler Outlet	8.2	7.6	7.9	7.6	7.6	7.6
Oxygen (%) - Baghouse Outlet	8.1	7.9	7.9	8.3	8.2	8.3
CO -Boiler Outlet - mg/Rm3	7.7	8.2	12.5	7.1	9.6	12.5
CO - Baghouse Outlet - mg/Rm3	5.5	5.7	9.8	5.3	7.8	9.4
NOx - mg/Rm3	110.7	108.5	111.2	109.2	108.9	110.3
NH3 mg/Rm3	12.0	11.9	11.6	12.2	11.6	12.3
Flue gas moisture	21%	21%	20%	20%	19%	19%
Outlet/Stack Dioxin - NATO - (pg TEQ/Rm³)	3.90	3.62	3.53	2.05	7.79	1.90

¹Average Unit data for the periods corresponding to the test run times.

Table 1: DYEC Source Test Emission Results 2019-2023

Parameter	Emission limit	Spring 2019 Voluntary		Fall 2019 Compliance		Spring 2020 Voluntary		Fall 2020 Compliance		Spring 2021 Voluntary		Fall 2021 Compliance		Spring 2022 Voluntary		Fall 2022 Compliance		Spring 2023 Voluntary		Fall 2023 Compliance	
		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/Rm ³	0.1	0.08	0.18	0.08	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
Carbon Monoxide	40 mg/Rm ³	13.1	12.2	11.2	12.1	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
Dioxins and Furans	60 pgTEQ/Rm ³	4.55	4.58	1.51	3.24	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
Hydrogen Chloride	9 mg/Rm ³	1.9	4.2	3	5.1	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
Lead	50 µg/Rm ³	0.59	0.46	0.54	0.57	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
Mercury	15 µg/Rm ³	0.35	0.1	0.29	0.1	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
Nitrogen Oxides	121 mg/Rm ³	110	110	111	110	109	109	110	110	109	110	111	110	110	110	112	111	110	110	109	111
Organic Matter	50 ppm _{dv}	1.8	0.5	0.8	0.3	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
Sulphur Dioxide	35 mg/Rm ³	0.03	0.02	0	0.01	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
Total Suspended Particulate Matter	9 mg/Rm ³	0.62	0.38	0.61	0.54	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

Table 2: Comparison Table: 2023 Compliance Source Test Results Compared to ECA limits and Ontario A-7 Guideline

Parameter	Units	Boiler #1	Boiler #2	DYEC Average	DYEC ECA limit	% of ECA limit	Ontario A-7 Guideline
Nitrogen Oxides	mg/ Rm ³	109	111	110	121	90.9%	198
Total Suspended Particulate Matter	mg/ Rm ³	0.57	0.43	0.5	9	5.6%	14
Sulphur Dioxide	mg/ Rm ³	0	0.03	0.0	35	0.04%	56
Hydrogen Chloride	mg/ Rm ³	1.0	3.10	2.1	9	22.8%	27
Carbon Monoxide	mg/ Rm ³	8.10	9.90	9.0	40	22.5%	40
Mercury	µg/Rm ³	0.09	0.08	0.1	15	0.6%	20
Cadmium	µg/Rm ³	0.83	0.37	0.6	7	8.6%	7
Lead	µg/Rm ³	0.56	0.25	0.4	50	0.8%	60
Dioxin/Furans	pg TEQ/Rm ³	10.9	4.43	7.7	60	12.8%	80



The Regional Municipality of Durham Information Report

From: Commissioner of Planning and Economic Development
Report: #2024-INFO-18
Date: March 22, 2024

Subject:

Region of Durham Annual Business Count (Employment Survey) - 2023

Recommendation:

Receive for information.

Report:

1. Purpose

1.1 The purpose of this report is to provide Council with the results of the 2023 Business Count which was conducted during the summer of 2023.

2. Background

2.1 The annual Business Count is a comprehensive program to build and maintain the Region's employment information. Through regular collection, updating, and monitoring of the Region's Business Count information, year-over-year trends can be reported on. The Business Count is also used to update the Region's on-line business directory; provide background information for various planning studies; monitor growth; and promote economic development initiatives in the Region. The Business Count is a collaborative project, led by the Planning and Economic Development Department with support from Social Services, Finance, Corporate Services (Information Technology and Human Resources), the Office of the CAO (Corporate Communications), and the area municipalities.

- 2.2 The COVID-19 pandemic forced a pause in the Business Count in 2020. A modified Business Count was conducted in 2021, which wholly consisted of phone and email interviews, but did not yield reliable results to be directly comparable to previous years. In 2022, traditional data collection of Business Count information was resumed, while adhering to pandemic-related restrictions.
- 2.3 Since 2022, the avian flu has changed how farms are surveyed. Farm owners are no longer visited in-person, they are contacted via phone and encouraged to complete the survey online.

3. Previous Reports and Decisions

- 3.1 The last full Business Count was conducted in 2022 (See Report [#2023-INFO-38](#)).

4. 2023 Durham Region Business Count

Methodology

- 4.1 2023 marked the eleventh annual Business Count, with in-person interviews primarily completed by nine summer students. The students were generally able to conduct each survey in less than five minutes. In cases where face-to-face interviews were not possible, businesses had the option of returning the survey by mail, fax, or by completing the survey via the Region's website. Major employers such as school boards, Ontario Power Generation, and municipalities were contacted by phone or email through their respective head offices. The Business Count process included visiting locations in all the Region's urban areas, hamlets, and rural employment areas. In the rural areas, a visual inspection was conducted in an effort to locate additional businesses so that the database would be as complete as possible.
- 4.2 Business locations surveyed included professional offices, stores, places of worship, hotels, medical offices, industrial facilities, schools, government offices, hospitals, not-for-profit establishments as well as vacant commercial, industrial, and institutional locations.
- 4.3 Home-based and mobile businesses were not included in the door-to-door survey, since they may not advertise, or be readily identifiable. A targeted social media advertising campaign was used to encourage home-based businesses to participate.
- 4.4 Farms were identified through signage which shows the name of the farm, as well as whether the farm is a member of the Ontario Federation of Agriculture (OFA) or

the Christian Farmers Federation of Ontario (CFFO). Farm operators were also encouraged to participate in the Business Count through targeted radio and social media campaigns.

Key Findings

4.5 The information below provides the key findings from the 2023 Business Count for the Region of Durham. In the summer of 2023, there were:

- 210,038 jobs, a 4.3% increase over 2022;
- 12,718 businesses, a 0.2% decrease from 2022; and
- The top three employment sectors in the Region were:
 1. Retail trade (approximately 35,000 jobs at 2,500 businesses),
 2. Health care and social assistance (approximately 31,000 jobs at 1,500 businesses), and
 3. Educational services (approximately 20,000 jobs at 500 businesses).

4.6 Job gains were reported in 14 of 21 sectors. The following sectors each reported job increases of over 1,000 jobs:

- Educational services (+2,130 jobs);
- Transportation and Warehousing (+1,786 jobs);
- Health care and social assistance (+1,213 jobs);
- Public administration (+1,163 jobs); and
- Accommodation and food services (+1,066 jobs).

4.7 Jobs losses were reported in 7 sectors, although at lower levels. The sectors with the greatest job losses in 2023 were:

- Wholesale trade (-167 jobs);
- Information and cultural industries (-143 jobs);
- Manufacturing (-106 jobs).

4.8 The strong increase in jobs over 2022 appears to represent a return to pre-pandemic levels, including a modest year-over-year increase from 2019 (approximately 1.7% increase over 206,469 jobs in 2019). This is consistent with the easing of pandemic-related restrictions in the second half of 2022. While the COVID-19 pandemic was associated with a loss of jobs between 2019 and 2022, and many of the same social and economic uncertainties were still present in 2023 (including concerns such as climate change, supply chain issues, inflation, high interest rates, global political instability, and housing affordability challenges),

Durham's strong job numbers in 2023 indicate that the regional economy is recovering and continues to weather such challenges.

- 4.9 Attached is a highlights document which includes the results, analysis, and year-over-year trends as of the Summer of 2023 (Attachment 1). The findings from the survey confirm that Durham is a great place to live, work and invest.

5. Relationship to Strategic Plan

- 5.1 This report aligns with/addresses the following strategic goals and priorities in the Durham Region Strategic Plan:

- a. Economic Prosperity: To build a strong and resilient economy that maximizes opportunities for business and employment growth, innovation, and partnership.
- Goal 3.1 – Position Durham Region as the location of choice for business;
 - Goal 3.4 – Capitalize on Durham's strengths in key economic sectors to attract high-quality jobs;
- b. Service Excellence: To provide exceptional value to Durham taxpayers through responsive, effective, and fiscally sustainable service delivery.
- Goal 5.1 – Optimize resources and partnerships to deliver exceptional quality services and value; and
 - Goal 5.3 – Demonstrate commitment to continuous quality improvement and communicating results.

6. Conclusion

- 6.1 The data collected during the 2023 Business Count will be provided to the Area Municipalities and will be used to update the Region's business directory. Additionally, it will be used for a variety of planning and economic development purposes such as land use studies and growth monitoring. It will also provide the foundation for the next Business Count. A Business Count is planned to be completed in 2024 and will be reported on in early 2025.
- 6.2 For additional information, contact: Hidy Ng, Manager – GIS & Visualization, at 905-668-7711, extension 2570.

7. Attachments

Attachment #1: 2023 Business Count Highlights

Prepared by: Graham Wilson, Spatial Planner – Growth Management, at 905-668-7711, extension 2554.

Respectfully submitted,

Original signed by

Brian Bridgeman, MCIP, RPP, PLE
Commissioner of Planning and Economic
Development



Planning and
Economic Development
Department

2023 Business Count Highlights



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Message from the Commissioner of Planning and Economic Development

In 2023, the Region of Durham and its municipal partners conducted the 11th annual Business Count. Between May and September, the Business Count Team visited over 14,000 businesses across the Region's eight area municipalities to gather vital information about the location, type, and characteristics of businesses.

Results from the Business Count tell us about the type of employment, number of employees, and overall characteristics of businesses in the Region. The data collected during the annual Business Count and its analysis of year-over-year trends is used to: update the Region's on-line business directory; provide background information for various planning studies; monitor growth; and promote economic development initiatives in the Region.

The information below provides the key findings from the 2023 Business Count. In the Summer of 2023, there were:

- a. 210,038 jobs in the Region, a 4.3% increase from 2022;
- b. 12,718 businesses in the Region, similar to 2022; and
- c. The top three employment sectors in the Region are retail trade, health care and social assistance, and educational services.

Attracting a wide range of high-quality jobs across sectors promotes economic resilience and ensure the residents of Durham Region have the chance to live, work, and play in their community. Despite prolonged economic uncertainty as the economy recovers from the COVID-19 pandemic, that is attributed to macro-economic concerns such as supply chain issues, inflation, higher interest rates and housing affordability, Durham's investment in infrastructure and economic programming puts the Region in a strong position to thrive.

I encourage you to read the findings from the 2023 survey to learn more about Durham's local business landscape and why businesses continue to open and expand here. Thank you to the Region's Business Community for your support and continued participation in this very important initiative, and working together to keep Durham a great place to live, work and invest in.

Brian Bridgeman
Commissioner, Planning and Economic Development





Business Count Overview

Between May and September, the Region's Business Count team visit each visible business establishment in Durham to gather basic information about the type and nature of the business, the number of employees, etc. The 2023 Business Count Highlights Report details the survey results.

The data collected during the 2023 Business Count is shared with the area municipalities and will be used to update the Region's business directory. Additionally, it will be used for a variety of planning and economic development purposes such as land use studies and growth monitoring.

The Region's annual Business Count is conducted by a group of nine summer students primarily through short face-to-face interviews. The students, on average, conduct each survey in less than five minutes. In the event a face-to-face interview is not possible, businesses have the option of returning the survey by mail, fax, e-mail, or by completing it on the Region's website. Large employers such as school boards, Ontario Power Generation and municipal government offices are contacted by phone or email. The survey coverage includes all the Region's urban areas, hamlets and rural employment areas. In the rural areas, a visual inspection was conducted in an effort to locate additional businesses, so that the database would be as complete as possible.

Business locations surveyed include, but are not limited to, professional offices, stores, places of worship, hotels, medical offices, industrial facilities, schools, government offices, hospitals, not for profit establishments, vacant commercial, industrial, and institutional locations. Since 2022, farm operations are surveyed remotely due to the risk of spreading avian flu.

Home-based and mobile businesses are not included in the door-to-door survey. These types of businesses are challenging to survey in person due to a lack of a traditional bricks and mortar location. A targeted social media advertising campaign and radio ads are used to encourage home-based businesses to participate.



Durham Region

Total Businesses

12,718



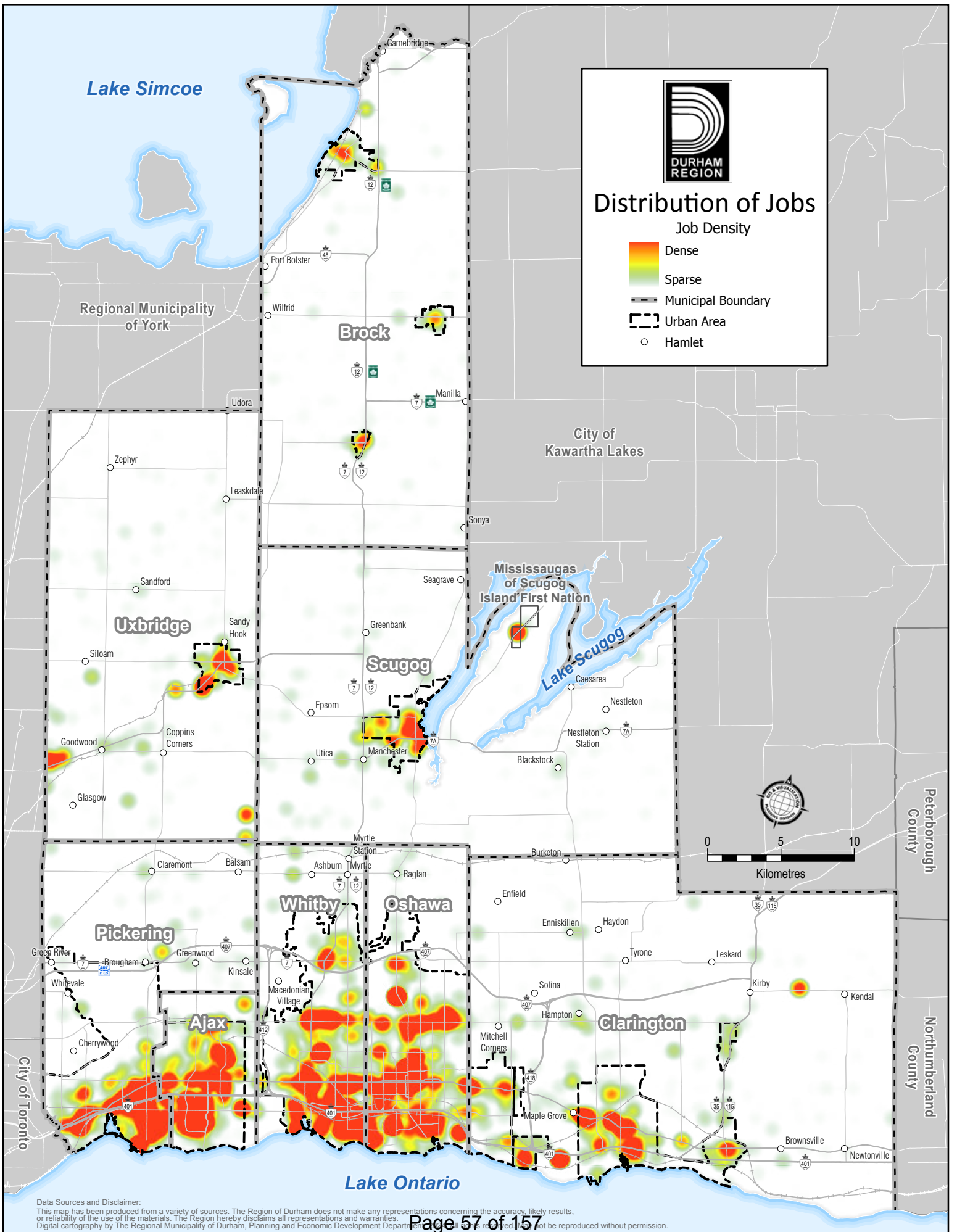
Total Jobs

210,038



Jobs Relative to 2022



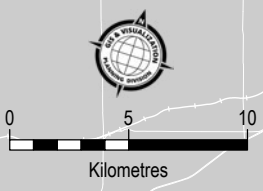


Distribution of Jobs

Job Density



- Municipal Boundary
- Urban Area
- Hamlet



Data Sources and Disclaimer:
 This map has been produced from a variety of sources. The Region of Durham does not make any representations concerning the accuracy, likely results, or reliability of the use of the materials. The Region hereby disclaims all representations and warranties.
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Population, jobs and business growth

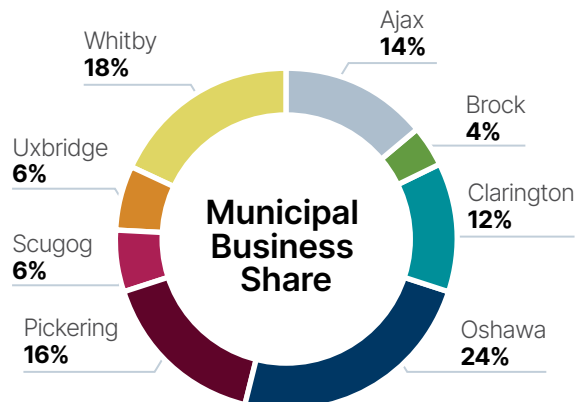
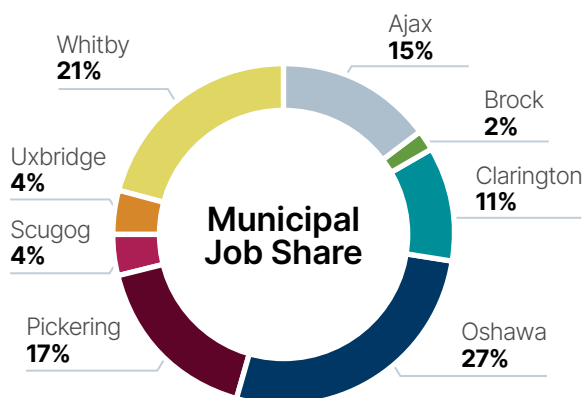
Population Estimate by Year



Paid Jobs by Survey Year



Occupied Businesses by Survey Year



Lake Simcoe



Distribution of Businesses

Business Density

Value



★ Top Employer in Municipality

— Municipal Boundary

- - - Urban Area

○ Hamlet

Regional Municipality of York

Brock

City of Kawartha Lakes

Uxbridge

Scugog

Mississaugas of Scugog Island First Nation

The Great Blue Heron Charity Casino

Lakeridge Resort Limited

Pickering

Whitby

Oshawa

Ajax

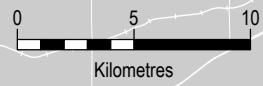
Regional Municipality of Durham - HQ

Lakeridge Health - Oshawa Hospital

Clarington

Peterborough County

Northumberland County



Lake Ontario

Data Sources and Disclaimer:

This map has been produced from a variety of sources. The Region of Durham does not make any representations concerning the accuracy, reliability, or reliability of the use of the materials. The Region hereby disclaims all representations and warranties. Digital cartography by The Regional Municipality of Durham, Planning and Economic Development Department. All rights reserved. May not be reproduced without permission.

Top 10 Employers in Durham are:

Company	Employees
Lakeridge Health	8,500 - 8,999
Durham District School Board (DDSB)	7,000 - 7,499
Ontario Power Generation (OPG)	7,000 - 7,499
Regional Municipality of Durham	5,000 - 5,499
Durham Catholic District School Board (DCDSB)	3,750 - 3,999
General Motors of Canada	3,750 - 3,999
Durham College	2,500 - 2,749
Tim Hortons	2,500 - 2,749
Walmart	2,000 - 2,249
McDonald's	2,000 - 2,249



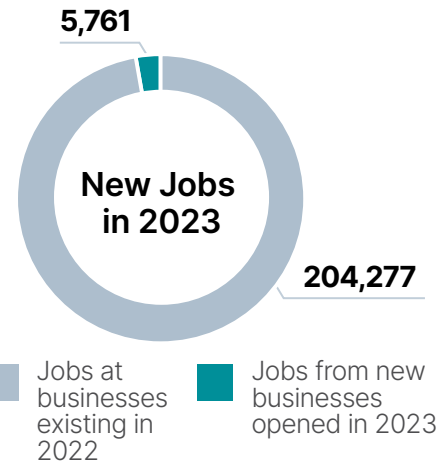
Business locations
opened in 2023

860

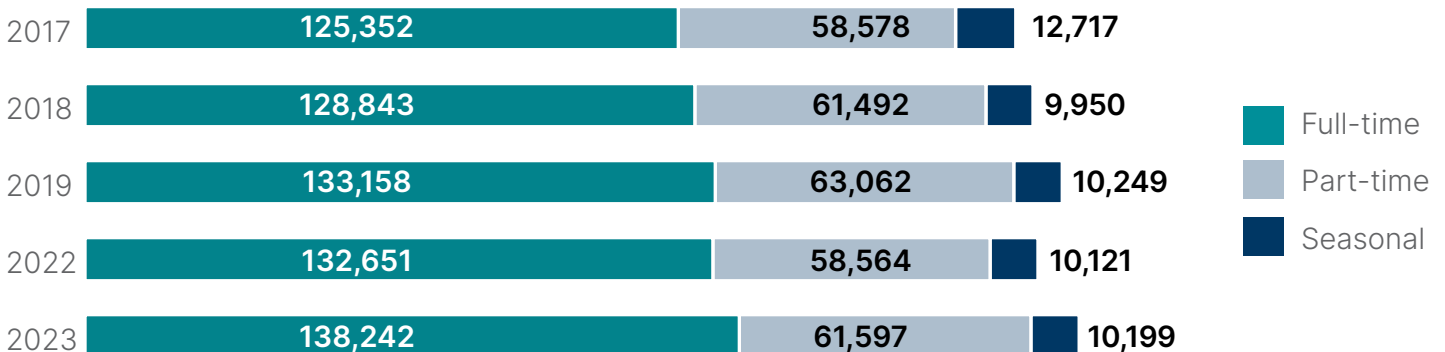


Business locations
vacant in 2023

1,550

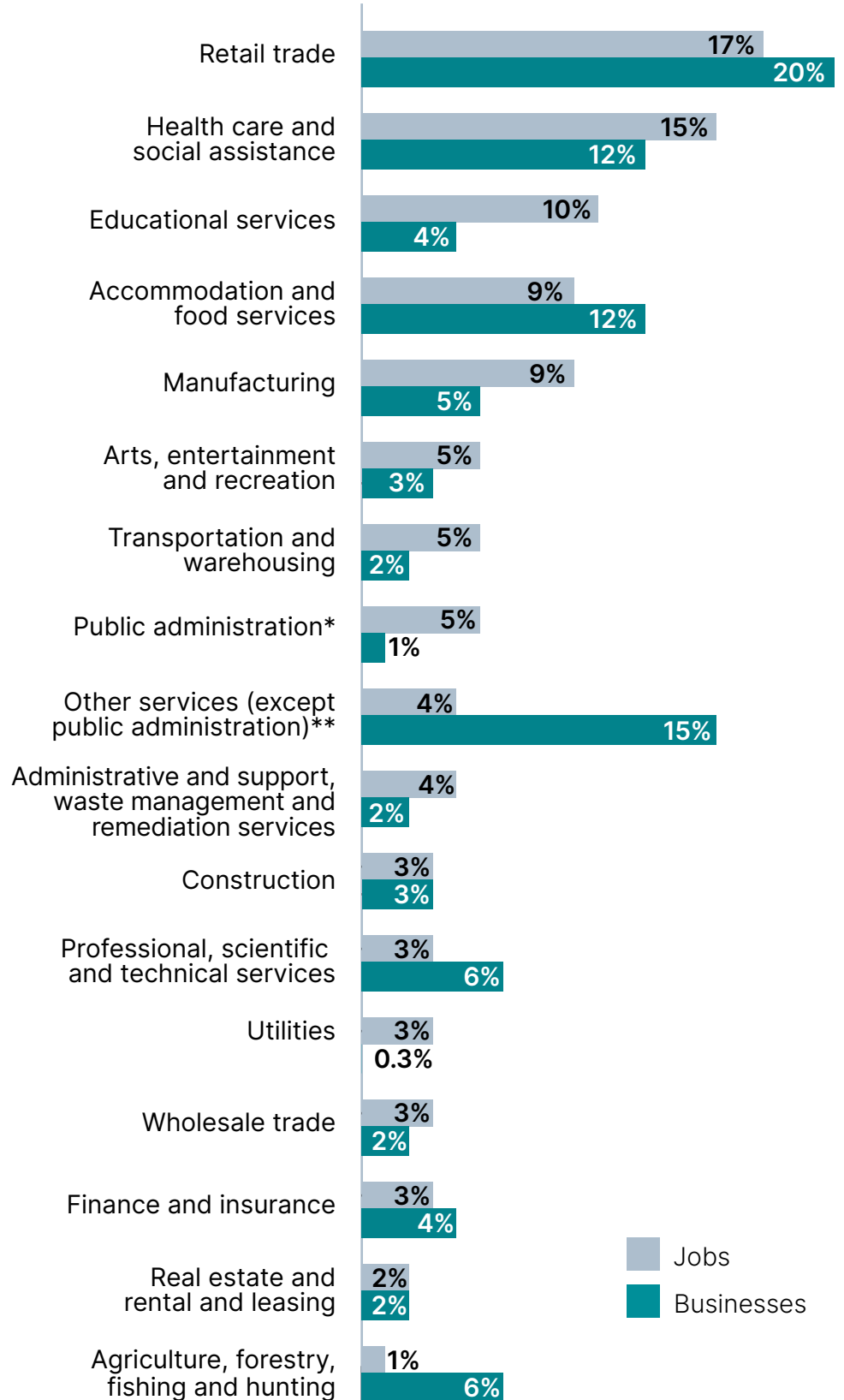


Jobs by Employment Type





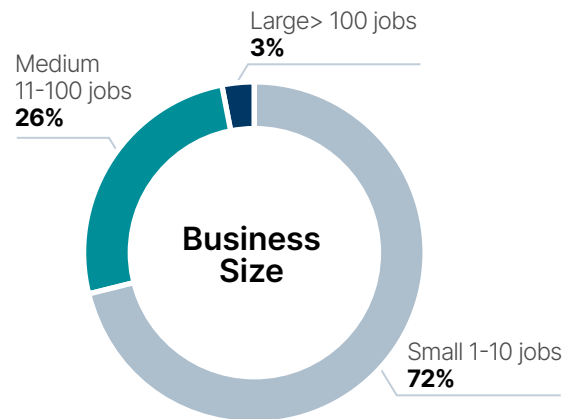
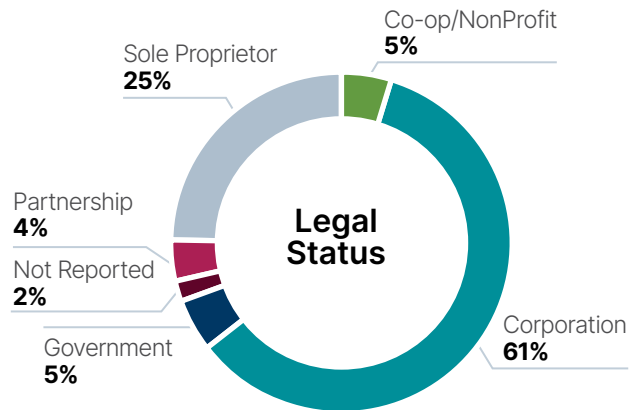
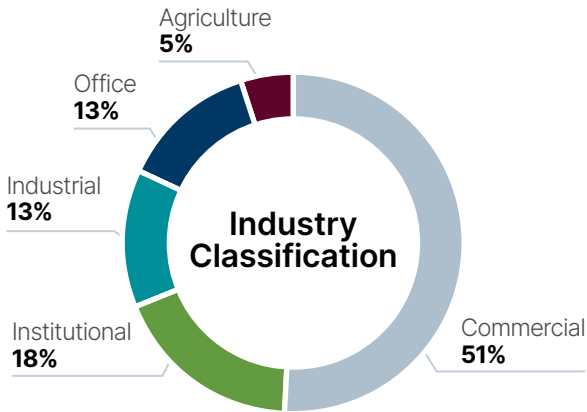
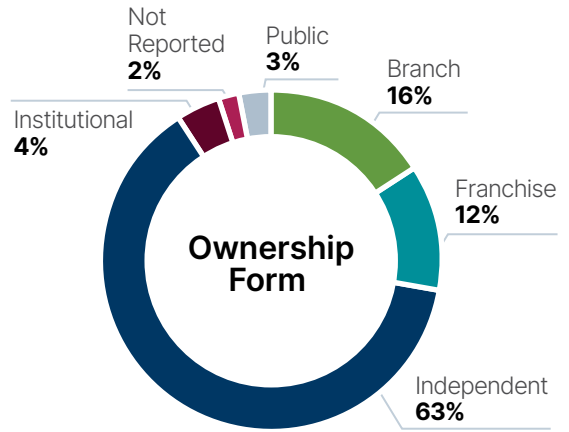
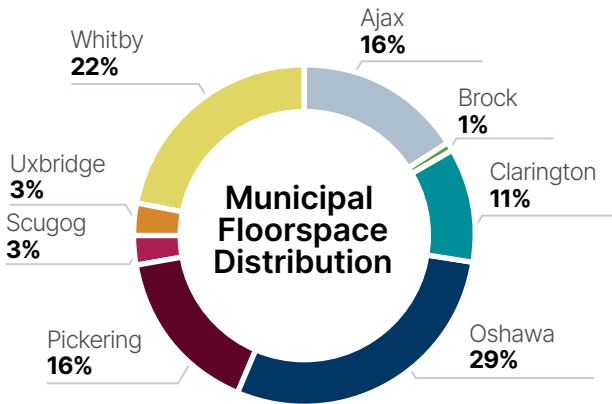
Highest Employment Sectors and Proportion of Related Businesses



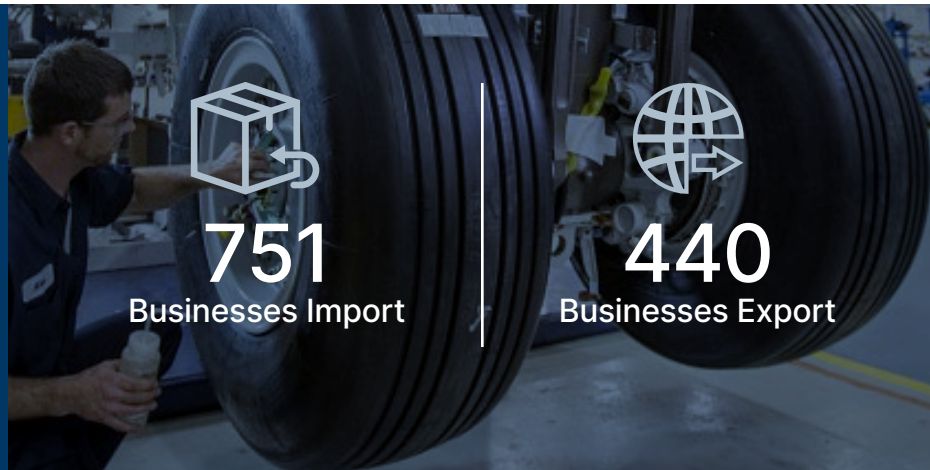
*Public administration, e.g.: government, law enforcement, and other public agencies.

**Other services (except public administration), e.g.: personal services, repair, and civic organizations.

Percentage of Businesses by:






Businesses most often reported difficulty in finding skilled workers in the following occupations: labour; customer services, sales, and management; chefs/cooks; auto mechanic; automotive; medical/health services; trades; education; hair stylist or esthetician. Businesses also often reported a lack of applicants for available positions.





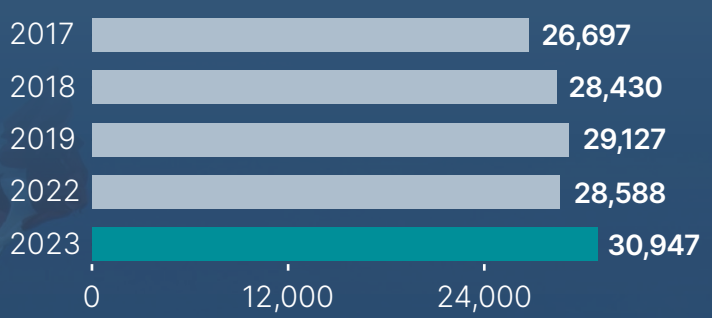
Ajax



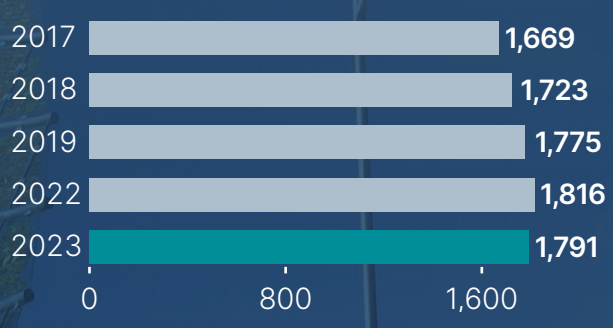
Total Businesses	1,791	
Total Jobs	30,947	
Jobs Relative to 2022	8.25%	

Jobs and business growth

Paid Jobs by Survey Year



Occupied Businesses by Survey Year



122

Businesses Import



70

Businesses Export

TOWN OF AJAX
OPERATIONS CENTRE

Top 10 Employers in Ajax are:

Company	Jobs
Lakeridge Health	1,750 - 1,999
Durham District School Board (DDSB)	1,250 - 1,499
Amazon Inc.	1,250 - 1,499
Durham Catholic District School Board (DCDSB)	1,000 - 1,249
Town of Ajax	750 - 999
Loblaws Companies Limited	750 - 999
SaFran Landing Systems	500 - 749
Intact Insurance Company	250 - 499
Costco Wholesale	250 - 499
Lear Canada	250 - 499



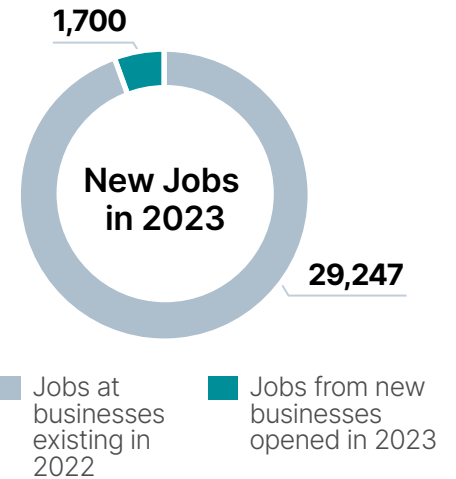
Business locations
opened in 2023

83

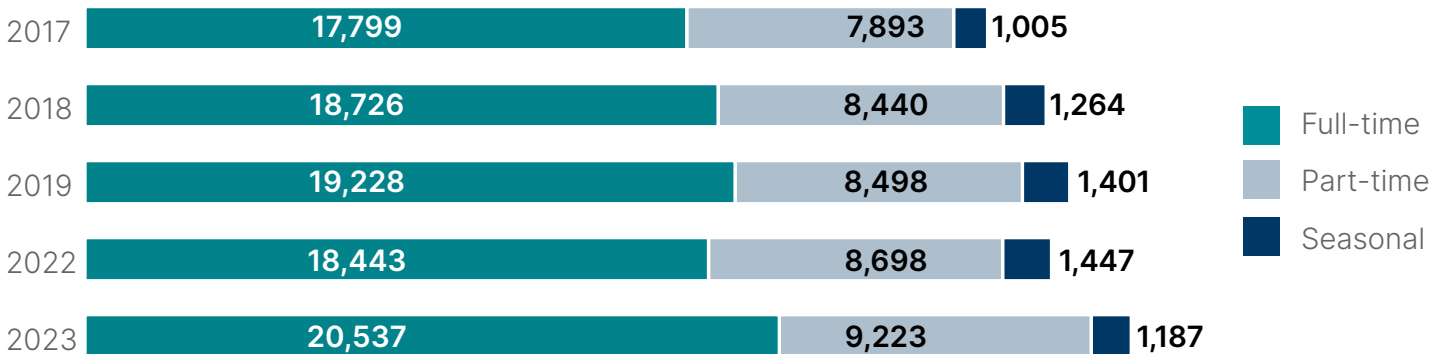


Business locations
vacant in 2023

198

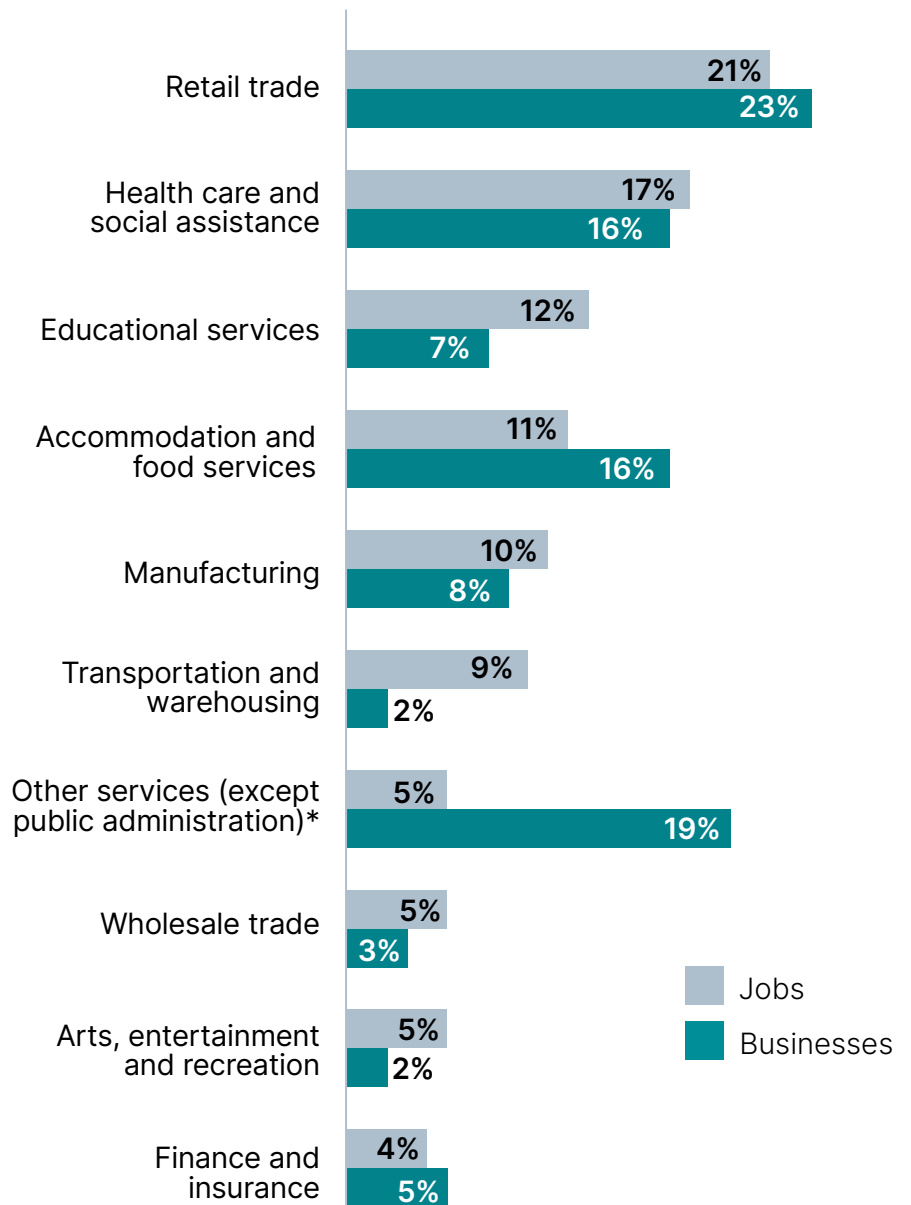


Jobs by Employment Type





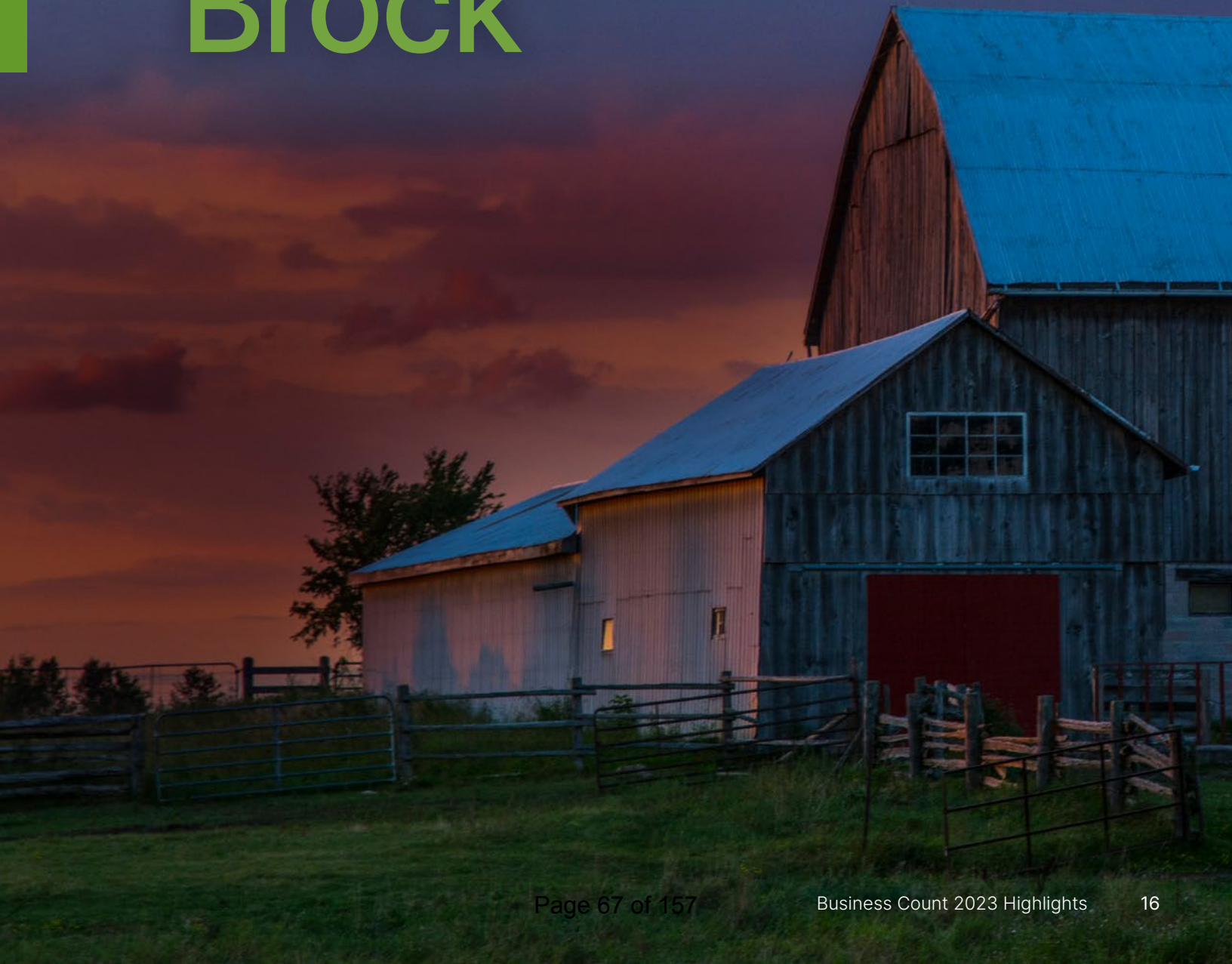
Highest Employment Sectors and Proportion of Related Businesses



*Other services (except public administration), e.g.: personal services, repair, and civic organizations.



Brock



Total Businesses

508



Total Jobs

3,549



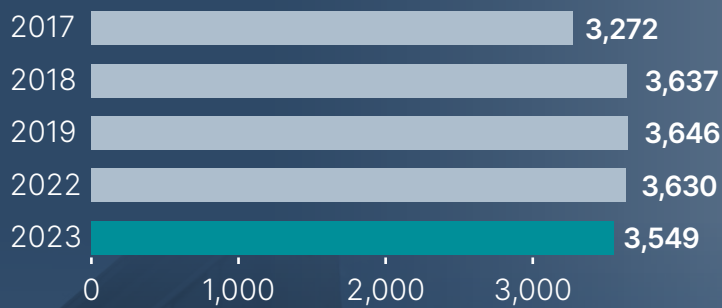
Jobs Relative to 2022

-2.23%



Jobs and business growth

Paid Jobs by Survey Year



Occupied Businesses by Survey Year



10

Businesses Import



12

Businesses Export

Top 10 Employers in Brock are:

Company	Jobs
Regional Municipality of Durham	250 - 499
Stock Transportation	100 - 249
Durham District School Board (DDSB)	100 - 249
Township of Brock	100 - 249
GoodYear Farm	100 - 249
Fisher's Independent Grocer	100 - 249
Sunderland Co-Operative	50 - 99
Flex -N- Gate	50 - 99
Bon Air Residence	50 - 99
Fairgreen Sod Farms	50 - 99



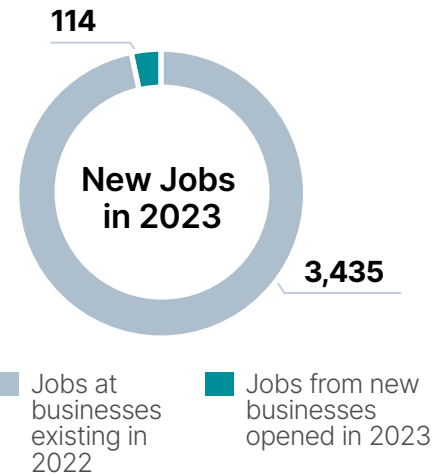
Business locations
opened in 2023

26

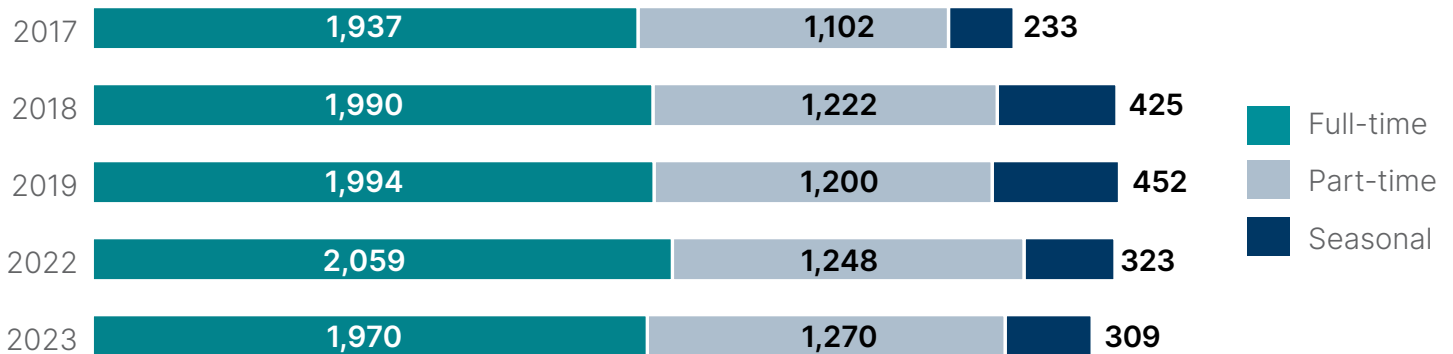


Business locations
vacant in 2023

46

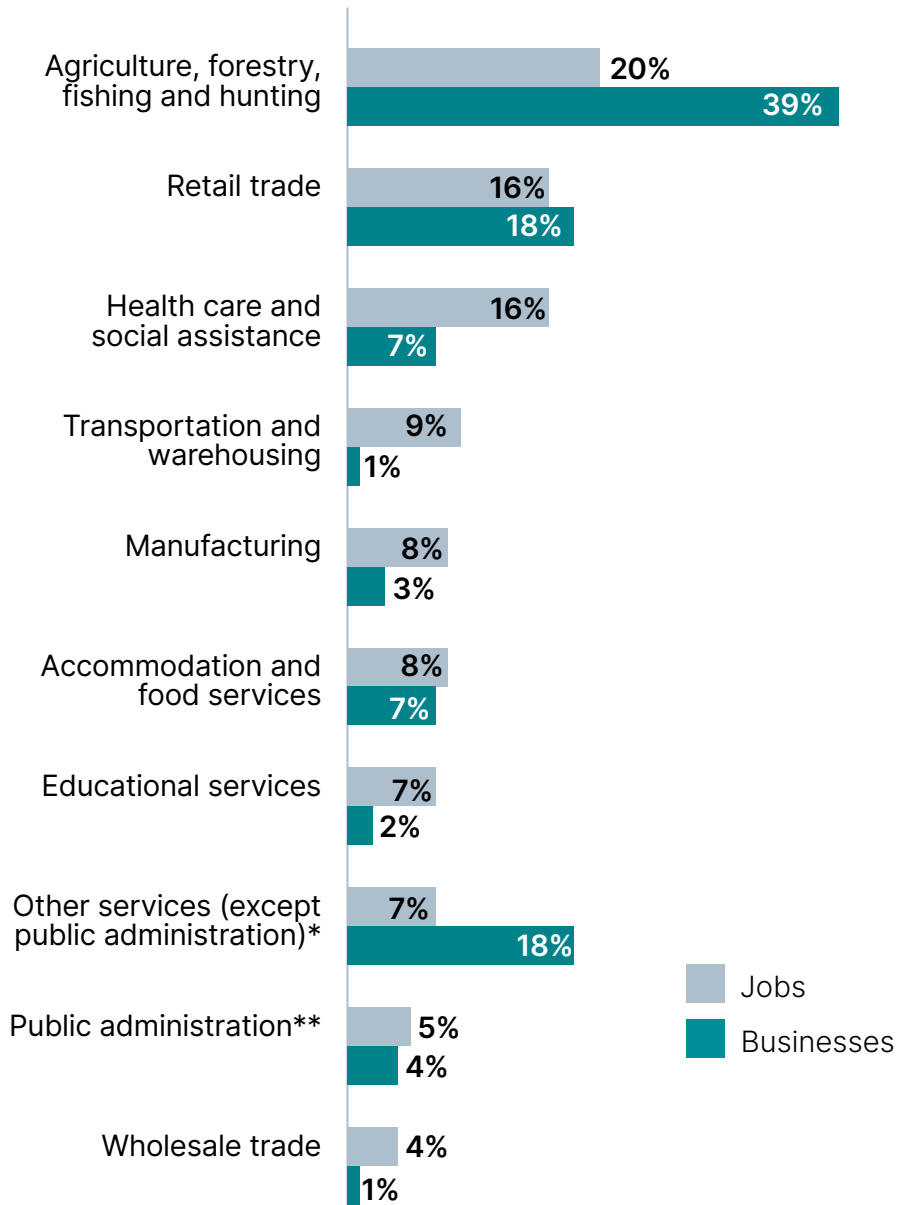


Jobs by Employment Type



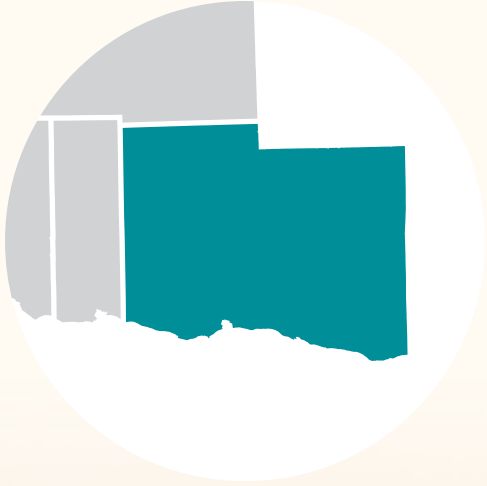


Highest Employment Sectors and Proportion of Related Businesses



*Other services (except public administration), e.g.: personal services, repair, and civic organizations.

**Public administration, e.g.: government, law enforcement, and other public agencies.



Clarington



Total Businesses

1,539



Total Jobs

23,407



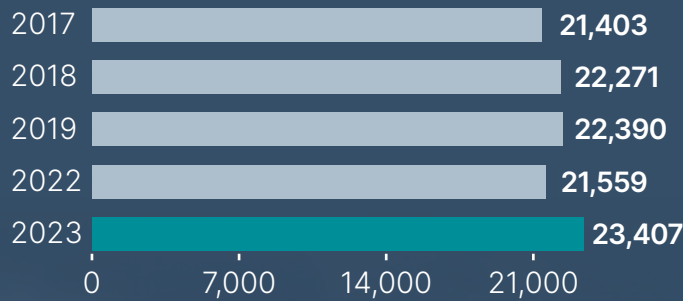
Jobs Relative to 2022

8.57%

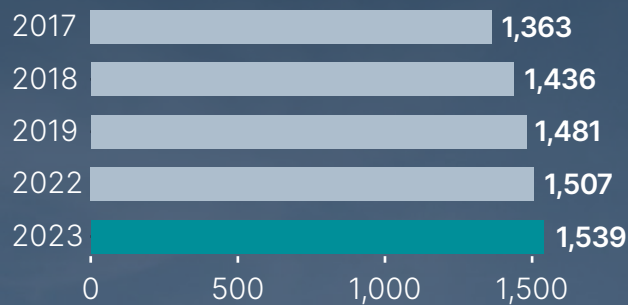


Jobs and business growth

Paid Jobs by Survey Year



Occupied Businesses by Survey Year



76

Businesses Import



52

Businesses Export

Top 10 Employers in Clarington are:

Company	Jobs
Ontario Power Generation (OPG)	2,750 - 2,999
Municipality of Clarington	1,250 - 1,499
Kawartha Pine Ridge District School Board (KPRDSB)	1,000 - 1,249
Black&McDonald - Nuclear Services	500 - 749
Lakeridge Health	500 - 749
Peterborough Victoria Northumberland and Clarington Catholic District School Board (PVNCCDSB)	500 - 749
Brimacombe	250 - 499
Wal-Mart	250 - 499
Tim Hortons	250 - 499
Durham Christian Homes Society Inc.	250 - 499



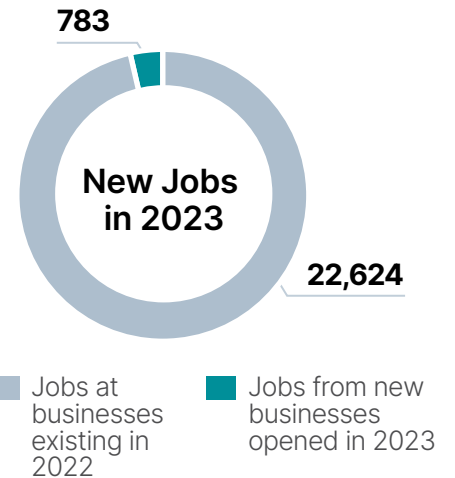
Business locations opened in 2023

133

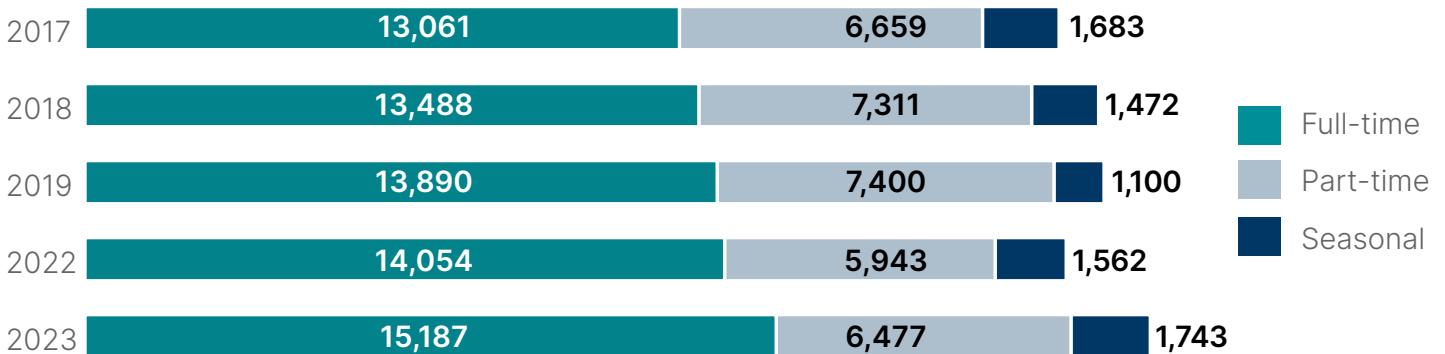


Business locations vacant in 2023

89

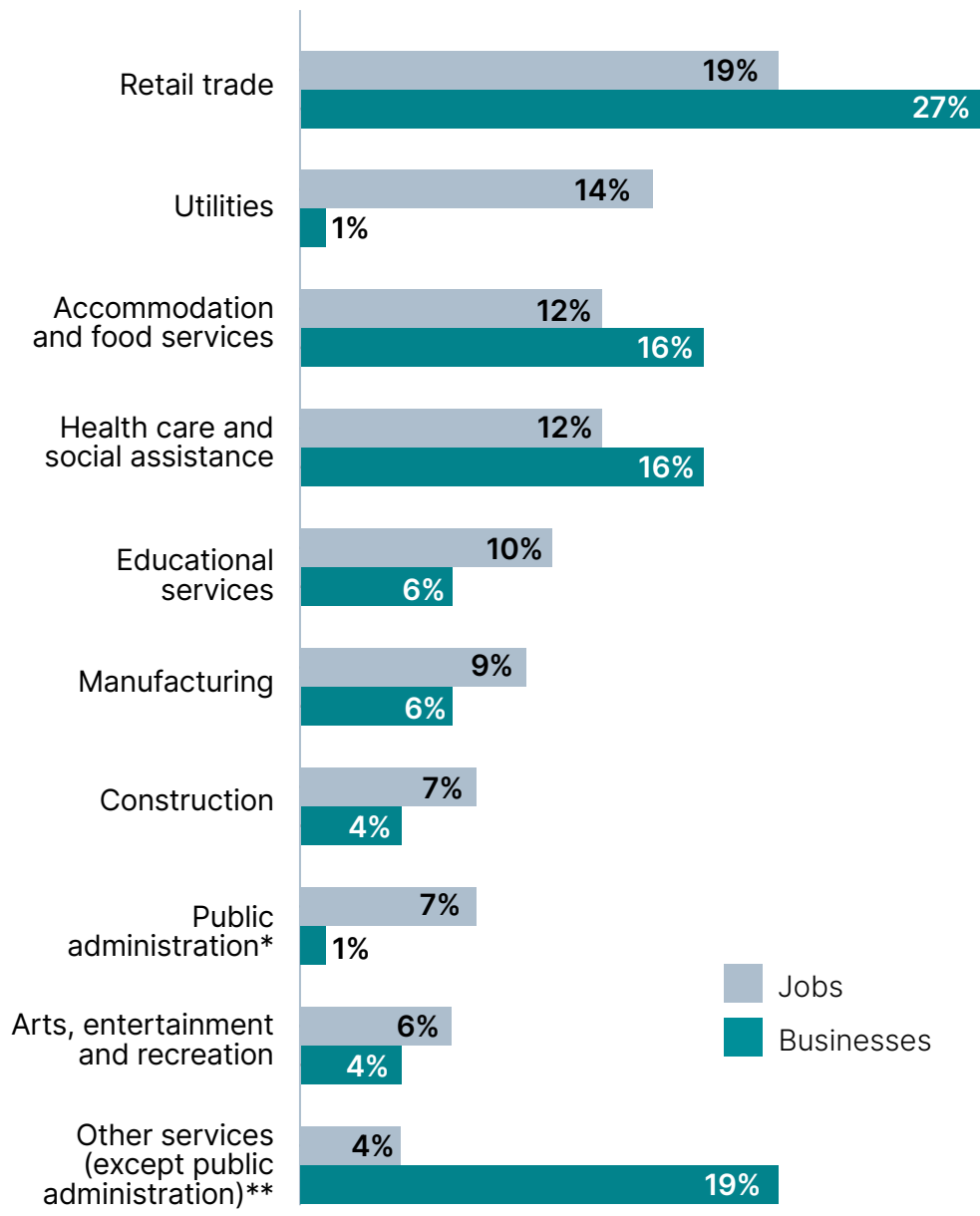


Jobs by Employment Type





Highest Employment Sectors and Proportion of Related Businesses






*Public administration, e.g.: government, law enforcement, and other public agencies.
 **Other services (except public administration), e.g.: personal services, repair, and civic organizations.



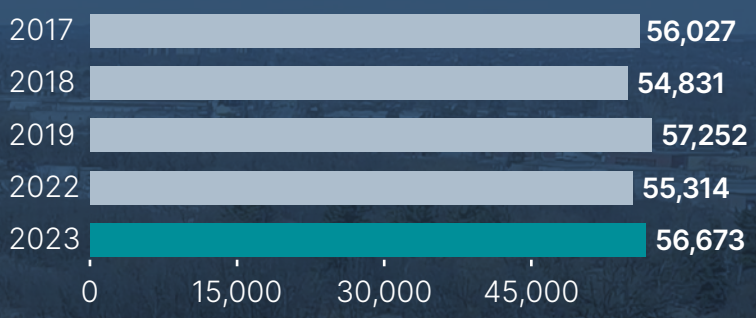
Oshawa



Total Businesses	3,067	
Total Jobs	56,673	
Jobs Relative to 2022	2.46%	

Jobs and business growth

Paid Jobs by Survey Year



Occupied Businesses by Survey Year



155
Businesses Import



70
Businesses Export

Top 10 Employers in Oshawa are:

Company	Jobs
Lakeridge Health	4,250 - 4,499
General Motors of Canada	3,750 - 3,999
Durham College	2,000 - 2,249
Durham District School Board (DDSB)	1,750 - 1,999
Ontario Tech University	1,250 - 1,499
City of Oshawa	1,250 - 1,499
Regional Municipality of Durham	1,250 - 1,499
Concentrix	1,000 - 1,249
Durham Catholic District School Board (DCDSB)	1,000 - 1,249
Ministry of Finance	1,000 - 1,249



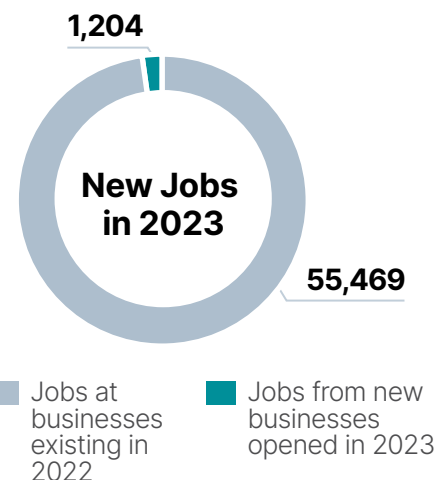
Business locations
opened in 2023

267

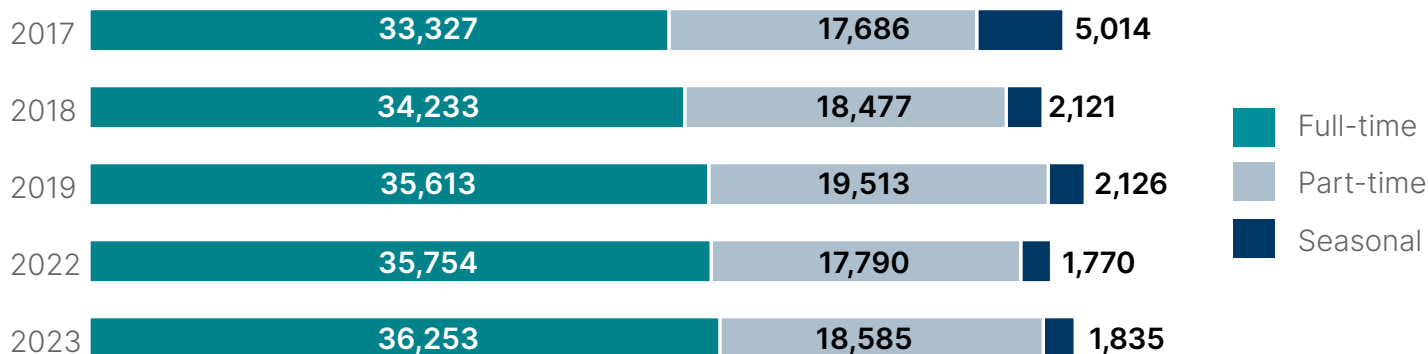


Business locations
vacant in 2023

492

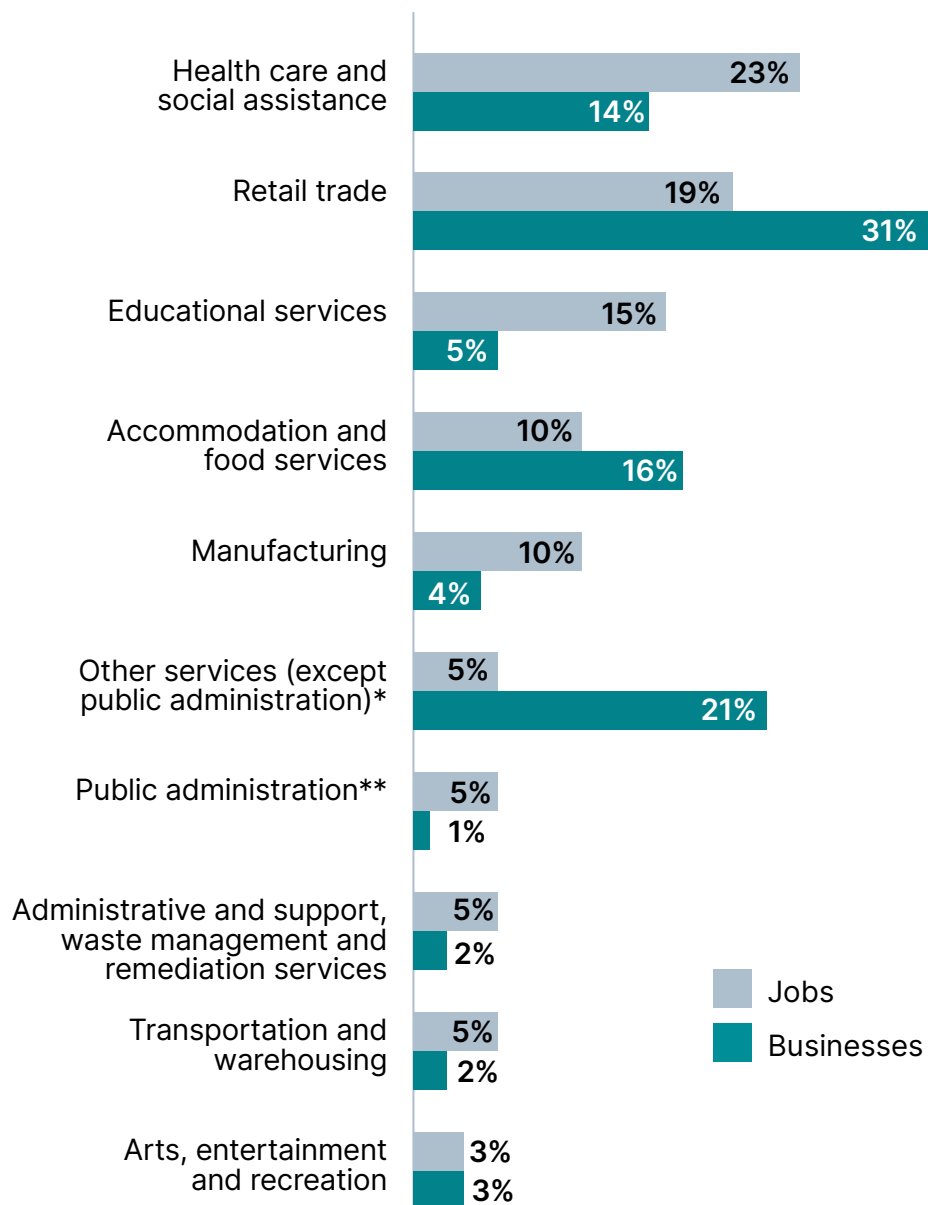


Jobs by Employment Type





Highest Employment Sectors and Proportion of Related Businesses






*Other services (except public administration), e.g.: personal services, repair, and civic organizations.

**Public administration, e.g.: government, law enforcement, and other public agencies.



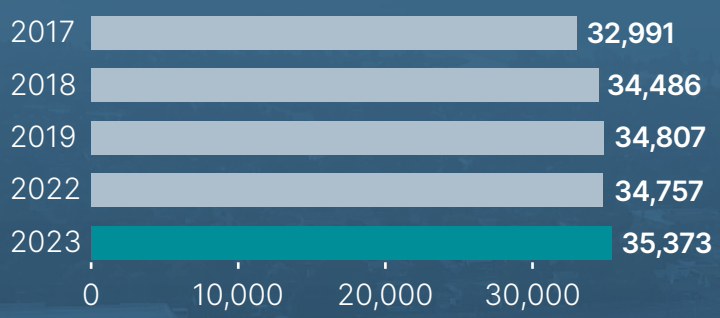
Pickering



Total Businesses	2,004	
Total Jobs	35,373	
Jobs Relative to 2022	1.77%	

Jobs and business growth

Paid Jobs by Survey Year



Occupied Businesses by Survey Year



176
Businesses Import



114
Businesses Export

Top 10 Employers in Pickering are:

Company	Jobs
Ontario Power Generation (OPG)	3,750 - 3,999
City of Pickering	1,000 - 1,249
Durham District School Board (DDSB)	750 - 999
Rogers	750 - 999
Pickering Casino Resort	500 - 749
Aspect Retail Logistics	500 - 749
MPAC (Municipal Property Assessment Corporation)	500 - 749
Durham Catholic District School Board (DCDSB)	250 - 499
Orchard Villa Long Term Care	250 - 499
Trigo	250 - 499



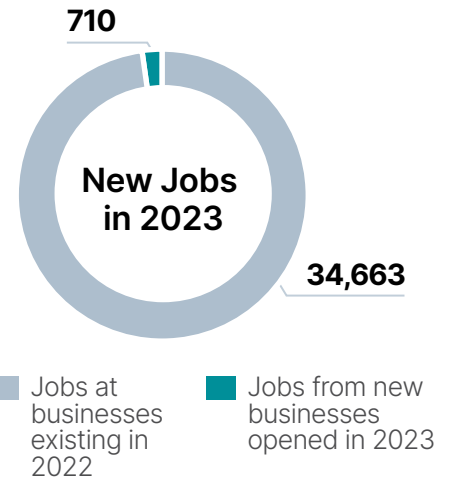
Business locations
opened in 2023

128

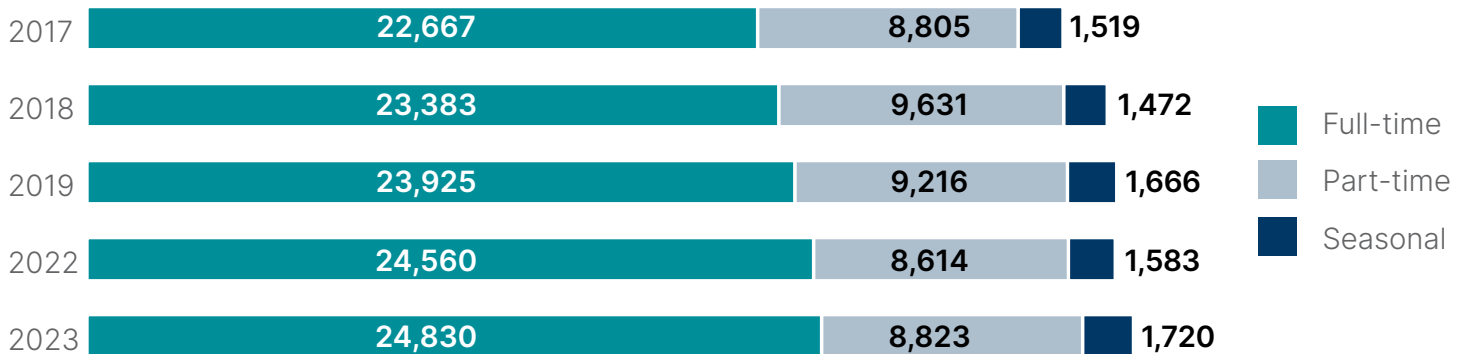


Business locations
vacant in 2023

315

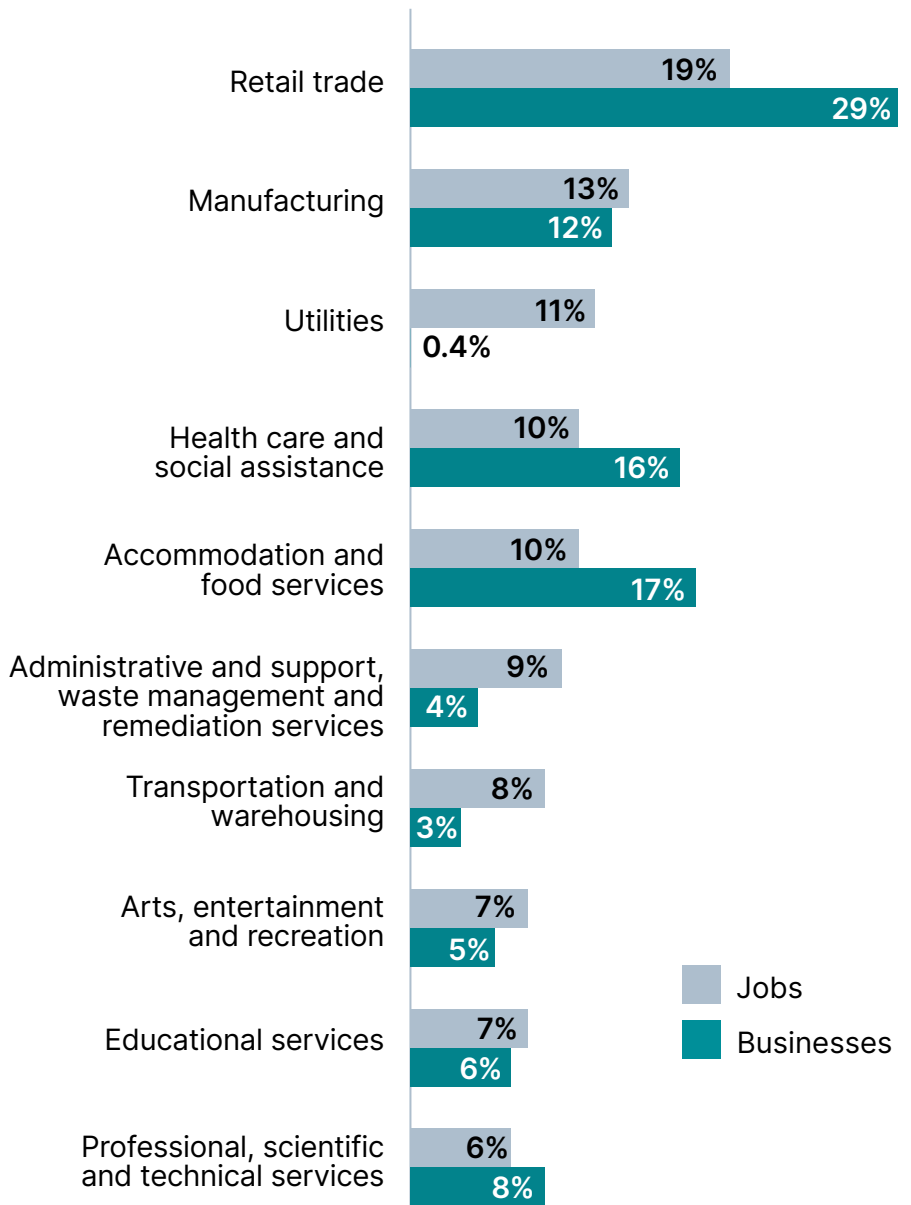


Jobs by Employment Type





Highest Employment Sectors and Proportion of Related Businesses





Scugog



Total Businesses

782



Total Jobs

7,740



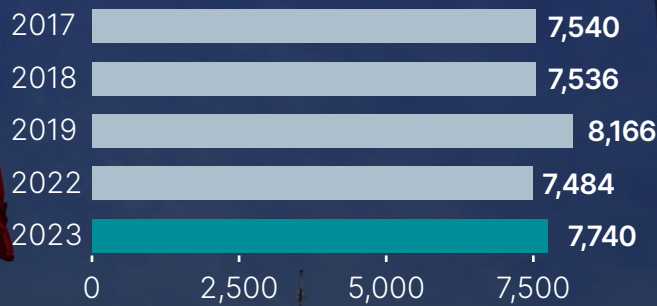
Jobs Relative to 2022

3.42%

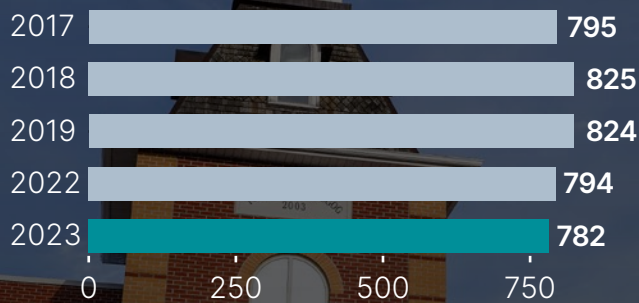


Jobs and business growth

Paid Jobs by Survey Year



Occupied Businesses by Survey Year



34
Businesses Import



25
Businesses Export

Top 10 Employers in Scugog are:

Company	Jobs
The Great Blue Heron Charity Casino	750 - 999
Durham District School Board (DDSB)	250 - 499
Walmart	250 - 499
Independent Grocers	100 - 249
Lakeridge Health	100 - 249
Port Perry Place Care Home	100 - 249
Greenwood Mushroom Farm	100 - 249
Regional Municipality of Durham	100 - 249
Tim Hortons	100 - 249
Willow Tree Farms	100 - 249



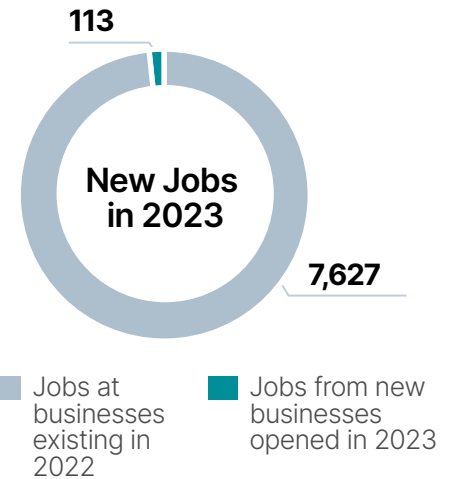
Business locations
opened in 2023

37

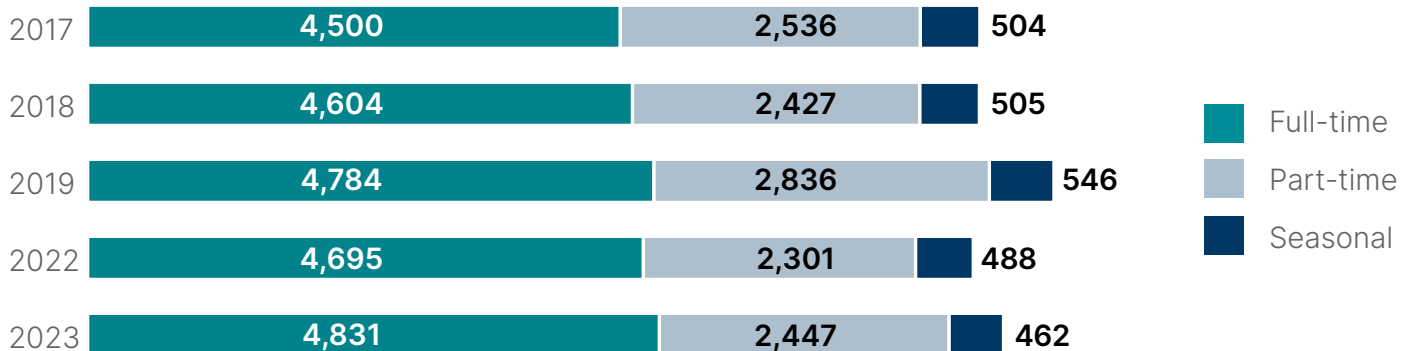


Business locations
vacant in 2023

105

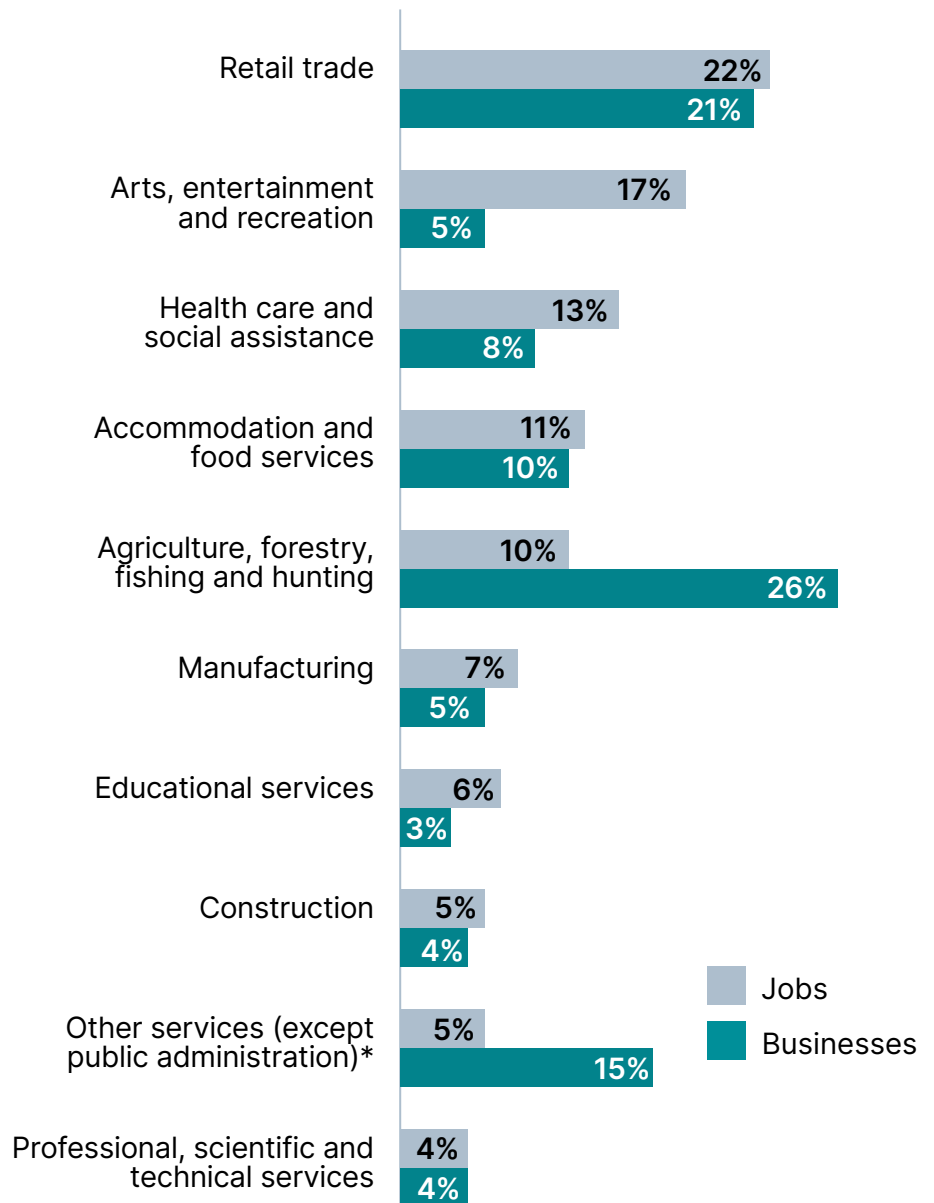


Jobs by Employment Type





Highest Employment Sectors and Proportion of Related Businesses



*Other services (except public administration), e.g.: personal services, repair, and civic organizations.



Uxbridge

Total Businesses

715



Total Jobs

7,990



Jobs Relative to 2022

0.44%



Jobs and business growth

Paid Jobs by Survey Year



Occupied Businesses by Survey Year



38

Businesses Import



25

Businesses Export

Top 10 Employers in Uxbridge are:

Company	Jobs
Lakeridge Resort Limited	250 - 499
Durham District School Board (DDSB)	250 - 499
Dagmar Ski Resort	250 - 499
Heritage Restoration Inc	100 - 249
Township of Uxbridge	100 - 249
Loblaw Companies Ltd	100 - 249
Stanmore Load Lifter Manufacturing Ltd.	100 - 249
Stanmore Equipment Ltd	100 - 249
Castool Tooling Systems	100 - 249
Mill Run Golf Club	100 - 249



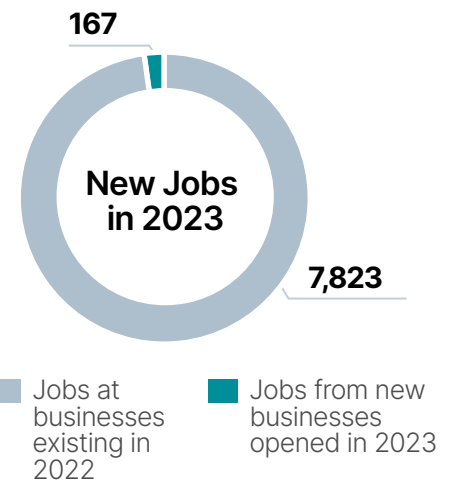
Business locations opened in 2023

31

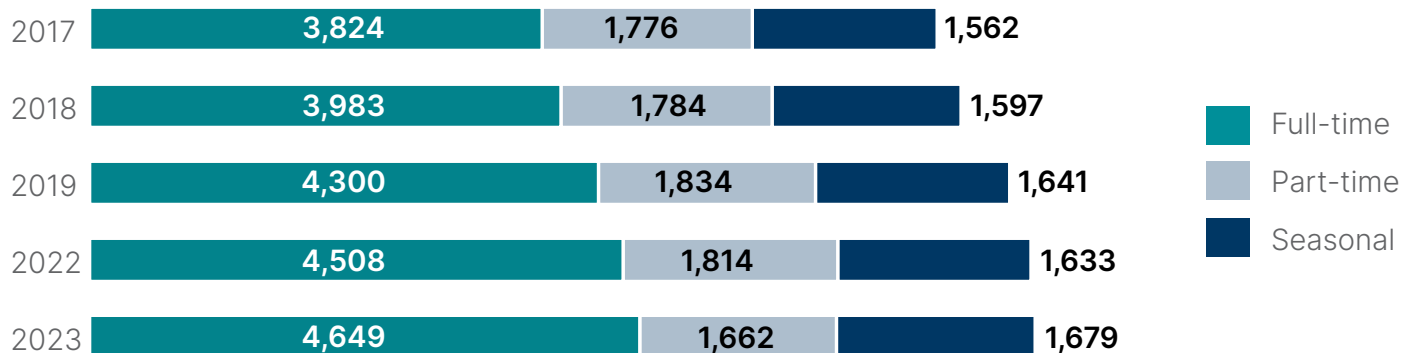


Business locations vacant in 2023

73

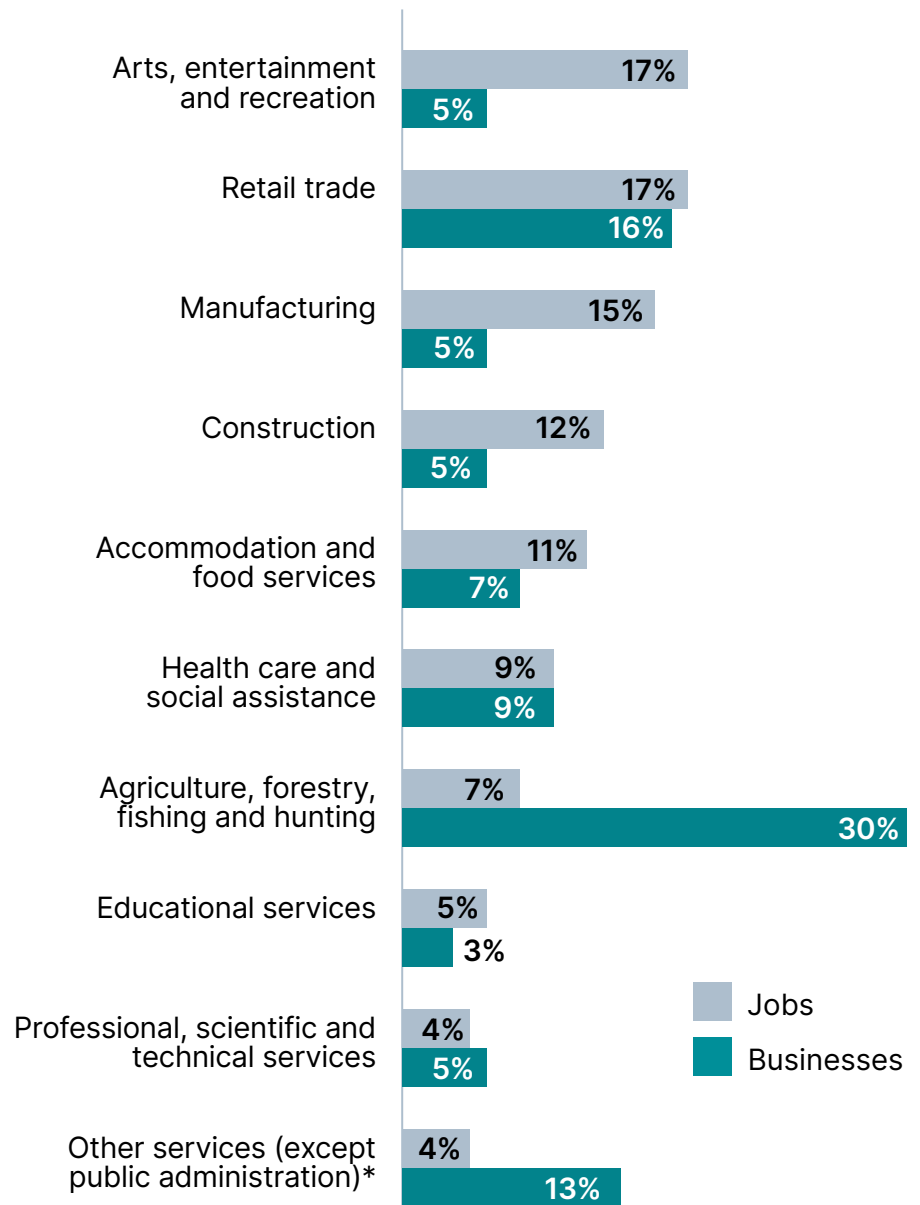


Jobs by Employment Type








Highest Employment Sectors and Proportion of Related Businesses



*Other services (except public administration), e.g.: personal services, repair, and civic organizations.

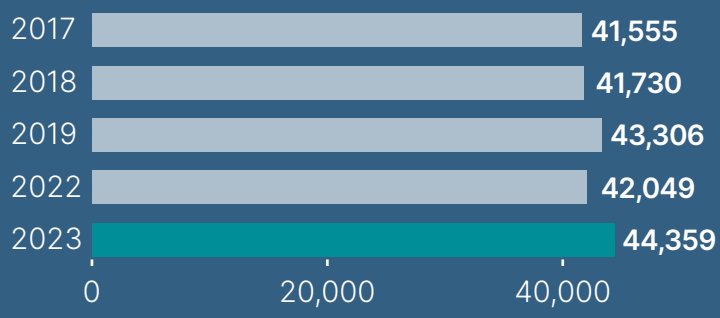


Whitby

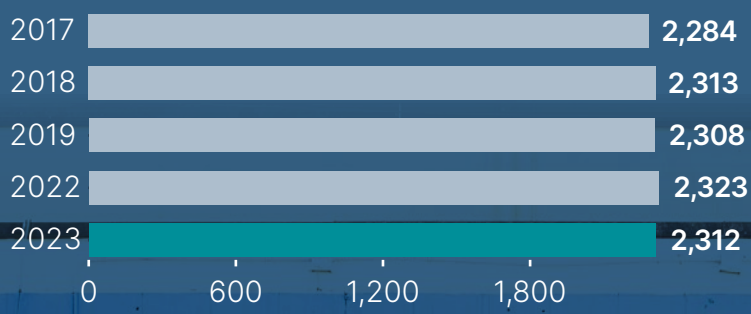
Total Businesses	2,312	
Total Jobs	44,359	
Jobs Relative to 2022	5.49%	

Jobs and business growth

Paid Jobs by Survey Year



Occupied Businesses by Survey Year



DOWNTOWN



140
Businesses Import



72
Businesses Export

Top 10 Employers in Whitby are:

Company	Jobs
Regional Municipality of Durham	2,250 - 2,499
Durham District School Board (DDSB)	2,250 - 2,499
Lakeridge Health	1,500 - 1,749
Town of Whitby	750 - 999
Gerdau	750 - 999
Durham Catholic District School Board (DCDSB)	750 - 999
Central East LHIN	500 - 749
Durham Regional Police	500 - 749
Sobeys Whitby Service Centre	500 - 749
Tim Hortons	500 - 749



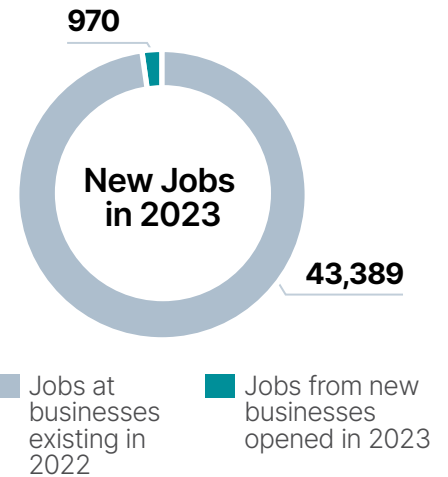
Business locations
opened in 2023

155

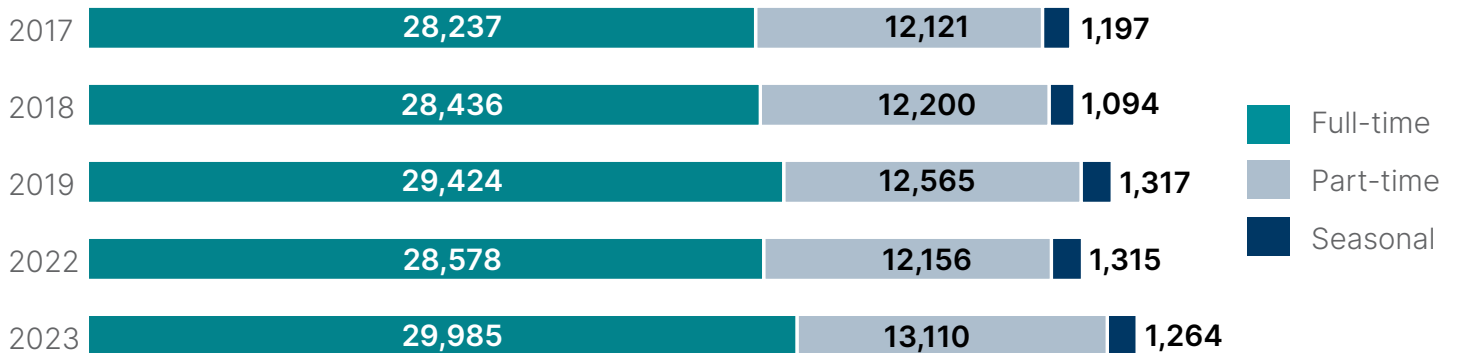


Business locations
vacant in 2023

232

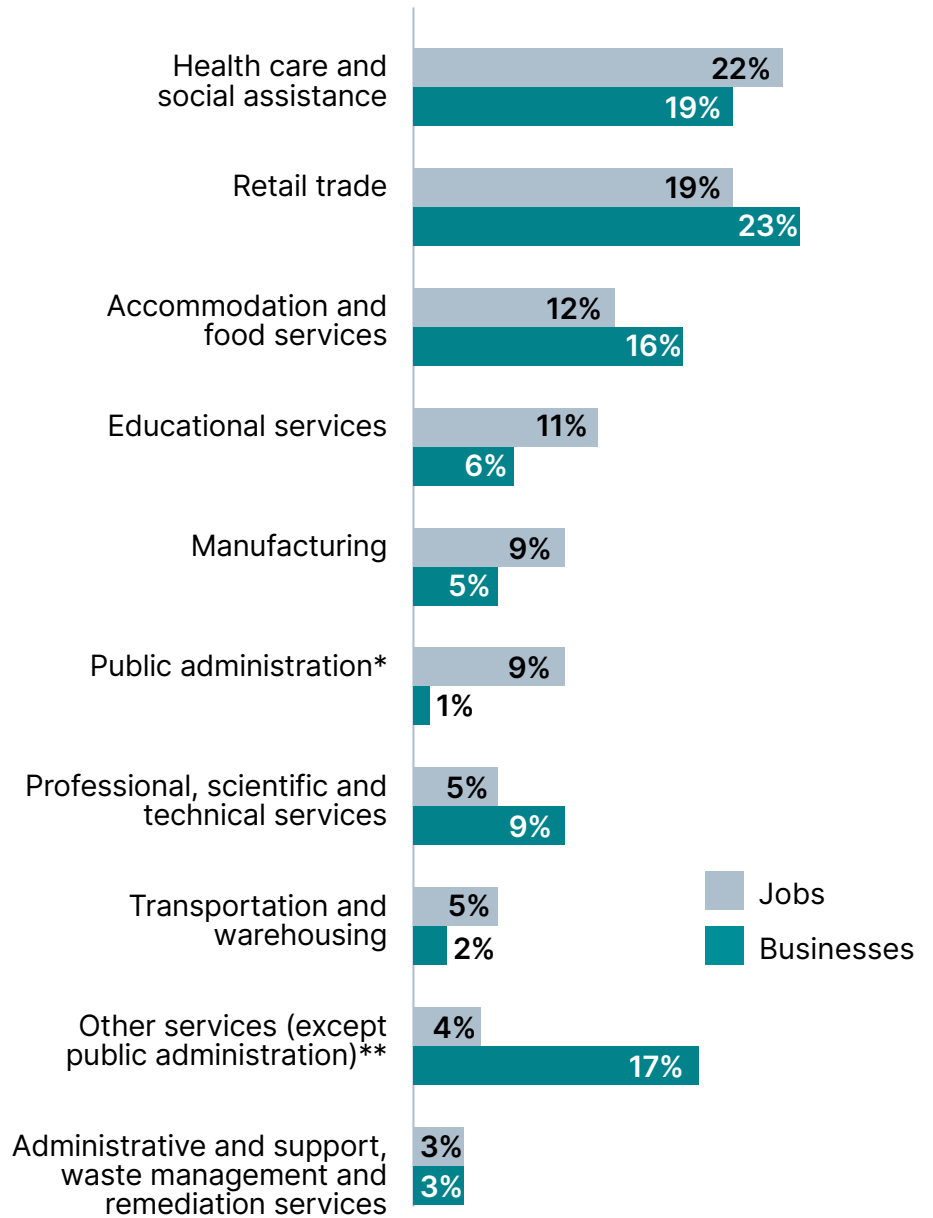


Jobs by Employment Type





Highest Employment Sectors and Proportion of Related Businesses



*Public administration, e.g.: government, law enforcement, and other public agencies.

**Other services (except public administration), e.g.: personal services, repair, and civic organizations.



The Regional Municipality of Durham
Planning and Economic Development Department, Planning Division
605 Rossland Rd. E., 4th Floor
PO Box 623
Whitby, ON L1N 6A3

If this information is required in an accessible format, please contact us.
Within Durham: 311 • Toll-Free: 1-800-372-1102

If this information is required in an accessible format, please contact 1-800-372-1102 ext. 2551



The Regional Municipality of Durham Information Report

From: Commissioner of Planning and Economic Development
Report: #2024-INFO-19
Date: March 22, 2024

Subject:

Quarterly Report - Commissioner's Delegated Planning Approval Authority, and Summary of Planning Activity in the fourth Quarter of 2023.

Recommendation:

Receive for information.

Report:

1. Purpose

1.1 The Region's Commissioner of Planning and Economic Development has been delegated the authority to approve certain area municipal official plan amendments in all area municipalities, as well as subdivisions, condominiums, and part lot control exemption by-laws in the Townships of Brock, Scugog, and Uxbridge. This report summarizes actions taken under this delegated authority between October 1 and December 31, 2023 (Q4).

2. Previous Reports and Decisions

2.1 Reports on planning activity and how the delegated planning approval authority is used by the Commissioner is presented at the end of every quarter.

3. Commissioner's Approval of Area Municipal Plan Amendments

3.1 Prior to the adoption of an area municipal official plan amendment by a local Council, a draft is forwarded to the Region for review and a determination as to whether it affects a matter of Regional interest, including conformity with Provincial

Plans, consistency with the Provincial Policy Statement and conformity with the Regional Official Plan. If it is felt the draft amendment deals with matters of Regional significance, it is subject to approval by the Commissioner of Planning and Economic Development. If the area municipal official plan amendment does not trigger a matter of Regional interest, then approval would rest with the area municipality.

3.2 In the fourth quarter of 2023, the Planning Division received six area municipal official plan amendment applications. Five applications are exempt from Regional approval and one application is non-exempt from Regional approval, as follows:

- In the City of Oshawa, application **12-04-0040** proposes to delete references to the year “2023” and replacing them with year “2026” in Section 4.8-Duration of the Harbour Road Area Community Improvement Plan. The amendment is required to extend the expiry date of the Harbour Road Area Community Improvement Plan from December 31, 2023, to December 31, 2026. This application is exempt from Regional approval.
- In the Municipality of Clarington, application **COPA 2023-005** proposes a site-specific amendment to increase the permitted density on the lands to 221 uph. This will facilitate the development of a 12-storey building containing approximately 262 units. Staff are also reviewing this application in conjunction with the related rezoning application A 10/23. This application is exempt from Regional approval.
- In the Municipality of Clarington, application **COPA 2023-002** proposes the Bowmanville East Urban Centre Secondary Plan. The Plan area includes the historic downtown area, Bowmanville Hospital, and former the former Goodyear lands. This application is non-exempt from Regional approval.
- In the Town of Whitby, application **OPA-2023-W/03** proposes a site-specific amendment to increase the permitted density on the lands to 40 units per hectare (uph). This will facilitate the development of 71 residential units. Staff are also reviewing this application in conjunction with related condominium application S-W-2023-03, and rezoning application Z-09-2023. This application is exempt from Regional approval.
- In the Town of Whitby, application **OPA-2023-W/01** proposes a municipally-initiated amendment to implement minor housekeeping and technical changes to the Whitby Official Plan as well as certain secondary plans. The

amendment proposed a variety of text and mapping updates. This application is exempt from Regional approval.

- In the City of Pickering, application **OPA 23-005/P** proposes to recognize the newly adopted Integrated Sustainable Design Standards (ISDS) with policy in the Pickering Official Plan and updated references to the previous Sustainable Design Guidelines (2007). The new ISDS is a set of standards that allows the City to review development applications through sustainability lens, based on modern, green technology criteria and best practices. This application is exempt from Regional approval.

4. Commissioner's Review and Approval of Subdivision and Condominium Applications

4.1 The Commissioner is the approval authority for proposed plans of subdivision and condominium in the three northern Townships. In the fourth quarter of 2023, the Planning Division received one subdivision application and one condominium application.

- In the Township of Brock, application **S-B-2023-01** proposes to create 40 townhouse units over 6 blocks with private well and septic systems located on the west side of Sarah Street, east of Osborne Street within the Beaverton Urban Area. Staff are also reviewing this application in conjunction with related condominium application C-B-2023-01.
- In the Township of Brock, application **C-B-2023-01** proposes to create a common element block to facilitate 40 townhouse units over 6 blocks with private well and septic systems located on the west side of Sarah Street, east of Osborne Street within the Beaverton Urban Area. Staff are also reviewing this application in conjunction with related subdivision application S-B-2023-01.

5. Commissioner's Approval of Part-Lot Control Exemption By-laws

5.1 The Commissioner is the approval authority for part-lot control exemption by-laws in the three northern Townships. In the fourth quarter of 2023, the Planning Division did not receive any Part- Lot Control applications.

6. Region's Review of Planning Applications

6.1 Regional staff review planning applications circulated from the area municipalities to ensure conformity with the Regional Official Plan (ROP), other Regional policies, and Provincial plans and policies. The Planning Division coordinates comments from other Regional Departments and responds to the area municipalities on the following planning matters:

- Area Municipal Official Plan amendment applications;
- Delegated plans of subdivision and condominium, and part-lot control exemption by-laws;
- Zoning By-law amendment applications; and
- Select minor variance applications.

6.2 Planning Division staff also provide coordinated comments to the Regional Land Division Committee on consent applications.

6.3 Attachment 1 provides a numeric summary of Regional staff's review of planning applications across the Region.

7. Regional Council's Approval of Applications to Amend the Durham Regional Official Plan

7.1 Regional Council is the approval authority for applications to amend the Regional Official Plan.

7.2 As of December 31, 2023, there were 15 ROPA applications under consideration (refer to Attachment 2 which includes a chart and maps). In the fourth quarter of 2023, no new ROPA applications were received.

8. Appeals to the Ontario Land Tribunal (OLT)

8.1 One Land Division application is currently before the OLT (Refer to Attachment 3A)

8.2 Four non-exempt area municipal official plan amendment applications are currently before the OLT (Refer to Attachment 3B).

9. Reserved Street Names

9.1 The Planning Division coordinates street naming in the Region. Street names are reviewed by the Region in consultation with Durham Regional Police Services, primarily from a public safety standpoint, to avoid the use of similar sounding street

names. The Region does not assess whether the proposed street names may, or may not be, in good taste. Street names that are viewed as not being in conflict or duplicative with existing street names are included in a street name reserve list for each area municipality. In the fourth quarter of 2023, the Region approved one new street name (Refer to Attachment 4).

10. Regional Woodland By-law Permit Applications

10.1 The Planning Division coordinates Good Forestry Practice permits and Clear-Cutting Permits in woodlands across the Region that are one hectare in size and greater. Good Forestry Applications are reviewed in consultation with the Region's Tree By-law Officer, the applicable area municipality and the applicable conservation authority. The Commissioner of Planning and Economic Development also approves minor clear-cutting permits, and Council is the approval authority for major clear-cutting permits (1 hectare or more in size). During the fourth quarter of 2023, seven new Good Forestry Practice permit applications were received.

11. Relationship to Strategic Plan

11.1 This report aligns with/addresses the following strategic goals and priorities in the Durham Region Strategic Plan:

Service Excellence – To provide exceptional value to Durham taxpayers through responsive, effective, and fiscally sustainable service delivery.

12. Attachments

Attachment #1: Summary of Regional Review of Planning Applications

Attachment #2: Summary and Maps of Regional Official Plan Amendment applications currently being processed or before the Ontario Land Tribunal

Attachment #3A: Non-Exempt Area Municipal Planning Applications before the Ontario Land Tribunal

Attachment #3B: Land Division Applications before the Ontario Land Tribunal

Attachment #4: Summary of Reserved Street Names

Respectfully submitted,

Original signed by

Brian Bridgeman, MCIP, RPP, PLE
Commissioner of Planning and
Economic Development

**Regional Review of Planning Applications –
Summary October 1 to December 31, 2023**

Area Municipal Official Plan Amendments

Received	6
Commented	6

Delegated Subdivisions & Condominiums (Lakeshore Area Municipalities)

Received	4
Provided Comments & Conditions of Draft Approval	3
Cleared Conditions of Draft Approval	0

Non-Delegated Subdivisions & Condominiums (Northern Municipalities)

Received	2
Provided Draft Approval	0
Issued Final Approval	0

Non-Delegated Part Lot Control

Received	0
Commented	0
Approved	0

Zoning By-laws Amendments

Received	9
Commented	9

Consents

Received	17
Commented	17

Good Forestry Practice and Clear-Cutting Applications

Received	7
Issued	7

**Regional Official Plan Amendment applications currently being processed, or
before the Ontario Land Tribunal (OLT) (as of December 31, 2023)**

OPA file	Council/ standing committee corr.	Applicant/ Location	Proposed amendment
2000-003	2000-273	Town of Ajax (South of Bayly St., East of Church St.)	<p>To delete a Type C Arterial Road (Deferral #3 to the Town of Ajax Official Plan).</p> <p>Status: ROPA #171 maintained the Clements Road connection in the ROP. Planned studies related to development and the widening of Bayly Street will re-examine the connection.</p>
2005-009	SC-2005-66	Loblaw Properties Ltd. Lots 3 & 4, Conc. 1 Town of Ajax (South of Achilles Rd., East of Salem Rd.)	<p>To delete a Type C Arterial Road.</p> <p>Status: ROPA #171 maintained the Shoal Point Road extension, north of Bayly Street in the ROP. Final disposition of this file is pending.</p>
2005-011	SC-2005-68	Brooklin Golf Club Limited Lots 21 to 25, Conc. 8 Town of Whitby (South of Myrtle Rd., West of Baldwin St.)	<p>To permit two 18-hole golf courses and a resort/ conference centre in the Prime Agricultural designation (formerly Permanent Agricultural Reserve).</p> <p>Status: Awaiting further technical studies from the applicant.</p>

OPA file	Council/ standing committee corr.	Applicant/ Location	Proposed amendment
2016-003		<p>Clara and Nick Conforti – Optilinx Systems Lot 21, Conc. 4 Town of Whitby (Thickson Rd. between Taunton Rd. East and Conlin Rd.)</p>	<p>To permit the continuation and expansion of a contractor’s yard and office in the Major Open Space designation.</p> <p>Status: Application appealed on December 12, 2019. Regional position in opposition to the amendment endorsed by Council on July 29, 2020. An OLT Case Management Conference was held September 7, 2021. The appeals were dismissed at the OLT hearing held on April 4, 2022. The applicant has since submitted a leave to appeal the OLT decision with the Ontario Divisional Court. The May 20, 2022 was adjourned. A motion to dismiss the appeal is to be scheduled by the Ontario Divisional Court.</p>
2021-002		<p>Sunrise International Investments Inc. Lot 4, Concession 5 City of Pickering (3695 Sideline 4)</p>	<p>To permit the redevelopment of the existing 12-hole golf course to a 9-hole golf course, a clubhouse with banquet facility, golf dome for indoor driving range, and a maintenance structure.</p> <p>Status: Awaiting a revised application from the Applicant. Application is on hold until it is received.</p>
2021-003		<p>Region of Durham. Various sites in proximity to existing and planned GO Rail stations.</p>	<p>To implement Protected Major Transit Station Area policies and delineations as a component of the Region’s municipal comprehensive review.</p> <p>Status: Regionally adopted ROPA 186 was submitted to MMAH for approval in January 2022.</p>

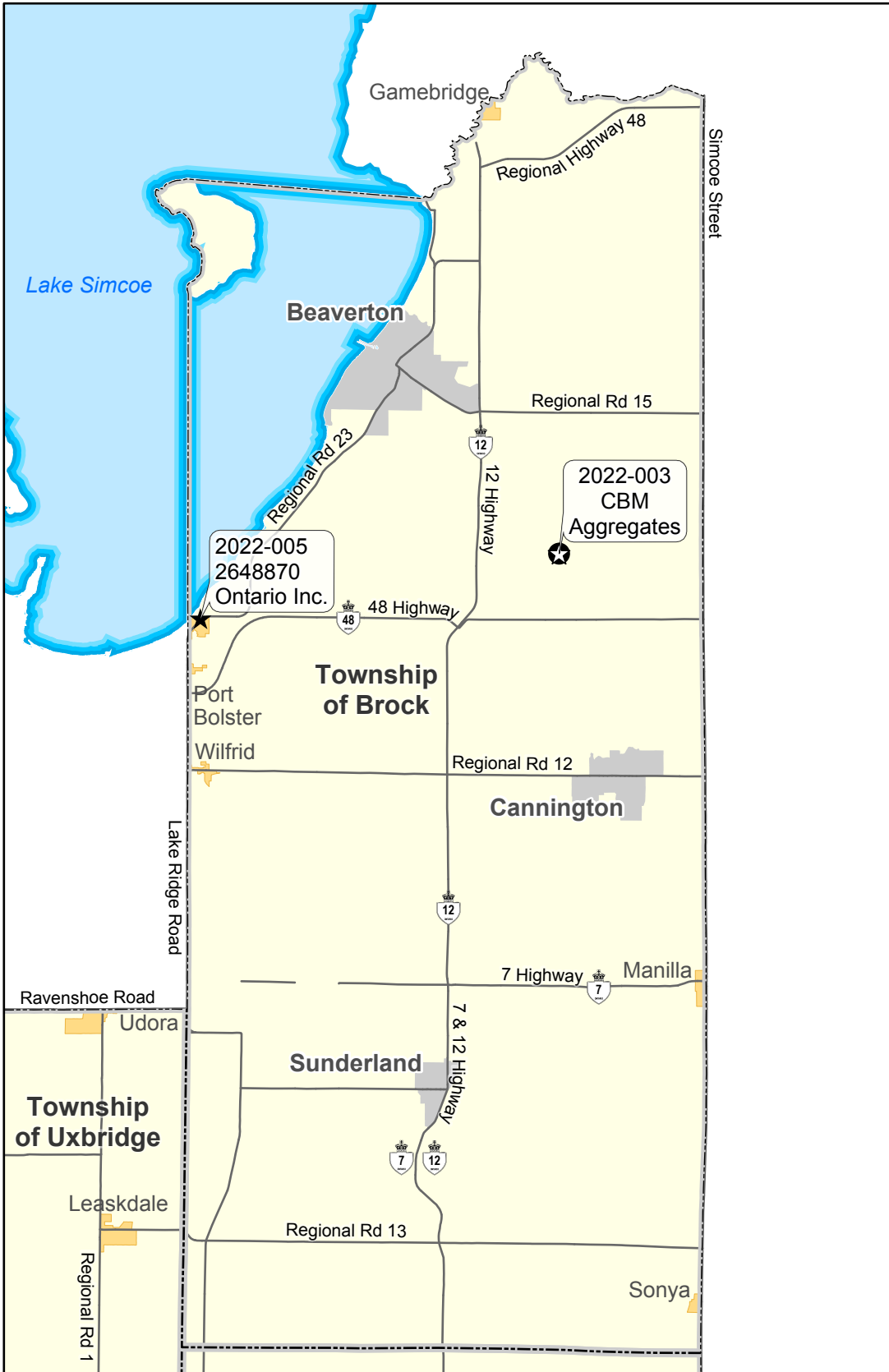
OPA file	Council/ standing committee corr.	Applicant/ Location	Proposed amendment
2021-005		Bridgebrook Corp. Lot 33, Con 6, Township of Uxbridge (7370 Centre Road)	<p>To redesignate the subject lands from Special Study Area #6 to Living Areas to allow a plan of subdivision.</p> <p>Status: Hearing held January 15, 2024. Awaiting decision from OLT.</p>
2021-006		Winchcoron Holdings Limited Lot 30, Con 5, Town of Whitby (605 Winchester Road West)	<p>To develop a golf course expansion</p> <p>Status: Public meeting was held on September 7, 2021. Decision meeting to be scheduled.</p>
2022-002		Norman Clements Township of Uxbridge Lot 15, Concession 4 (10899 Concession Road 4)	<p>To permit the severance of a non-abutting surplus farm dwelling.</p> <p>Status: Statutory Public Meeting was held June 7, 2022. Decision meeting to be scheduled.</p>
2022-003		CBM Aggregates Township of Brock Lots 7&8, Concession 2 (S895 Regional Road 13)	<p>To permit an aggregate pit expansion consisting of a licensed area of approximately 35.2 ha and an area proposed for extraction of approximately 22.4 ha, including above and below the water table extraction.</p> <p>Status: Regional Council adopted the proposed amendment on November 29, 2023, and Amendment 195 to the ROP became in full force and effect on December 21, 2023.</p>
2022-005		2648870 Ontario Inc. Township of Brock Lot 1, Concession 14 (23801 Thorah Park Boulevard)	<p>To permit the development of a resort comprised of a three-storey building with 42 suites and four single-storey “villas” for a total of 46 rental units.</p> <p>Status: Public Meeting held January 10, 2023. Decision meeting to be scheduled.</p>

OPA file	Council/ standing committee corr.	Applicant/ Location	Proposed amendment
2022-006		Wooden Sticks Golf Inc., Township of Uxbridge, Part Lot 27, Concession 6. (40 Elgin Park Drive)	<p>To permit a five-storey hotel and expanded parking area ancillary to the existing golf course.</p> <p>Status: Regional Council adopted the proposed amendment on November 29, 2023, and Amendment 194 to the ROP became in full force and effect on December 21, 2023.</p>
2023-001		Bethesda Ridge Farms, Municipality of Clarington, Part of Lot 8, Concession 6 (2774 Sixth Concession)	<p>To permit the severance of a farm dwelling rendered surplus as a result of the consolidation of non-abutting farm properties.</p> <p>Status: Decision Report was tentatively scheduled for March 5 Planning Committee.</p>
2023-002		Thornlea Holsteins Ltd. Municipality of Clarington Part Lot 1, Concession 5 (4854 Concession Road 5)	<p>To permit the severance of a farm dwelling rendered surplus as a result of the consolidation of non-abutting farm properties.</p> <p>Status: Public meeting held on April 4, 2023. Decision recommendation to be considered on April 2, 2024.</p>



Regional Official Plan Amendments (ROPAs) Township of Brock

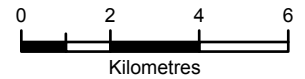
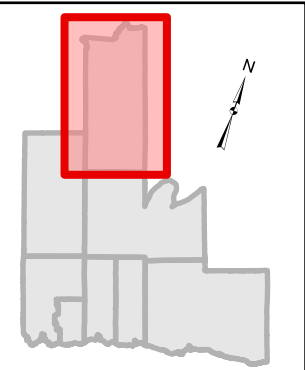
As of December 31 2023



ROPA Locations

- ☆ New Application
- ★ Under Consideration
- ⊗ Refused/Withdrawn
- ⊙ Appealed to OLT
- ⊛ Approved
- Regional Official Plan Urban Area
- Hamlet
- ▭ Municipal Boundary
- 12 Provincial Highway
- 48 Regional Highway
- 5 Regional Road
- Local Road

REGIONAL MAP INDEX



This map has been produced from a variety of sources. The Region of Durham does not make any representations concerning the accuracy, likely results, or reliability of the use of the materials. The Region hereby disclaims all representations and warranties.

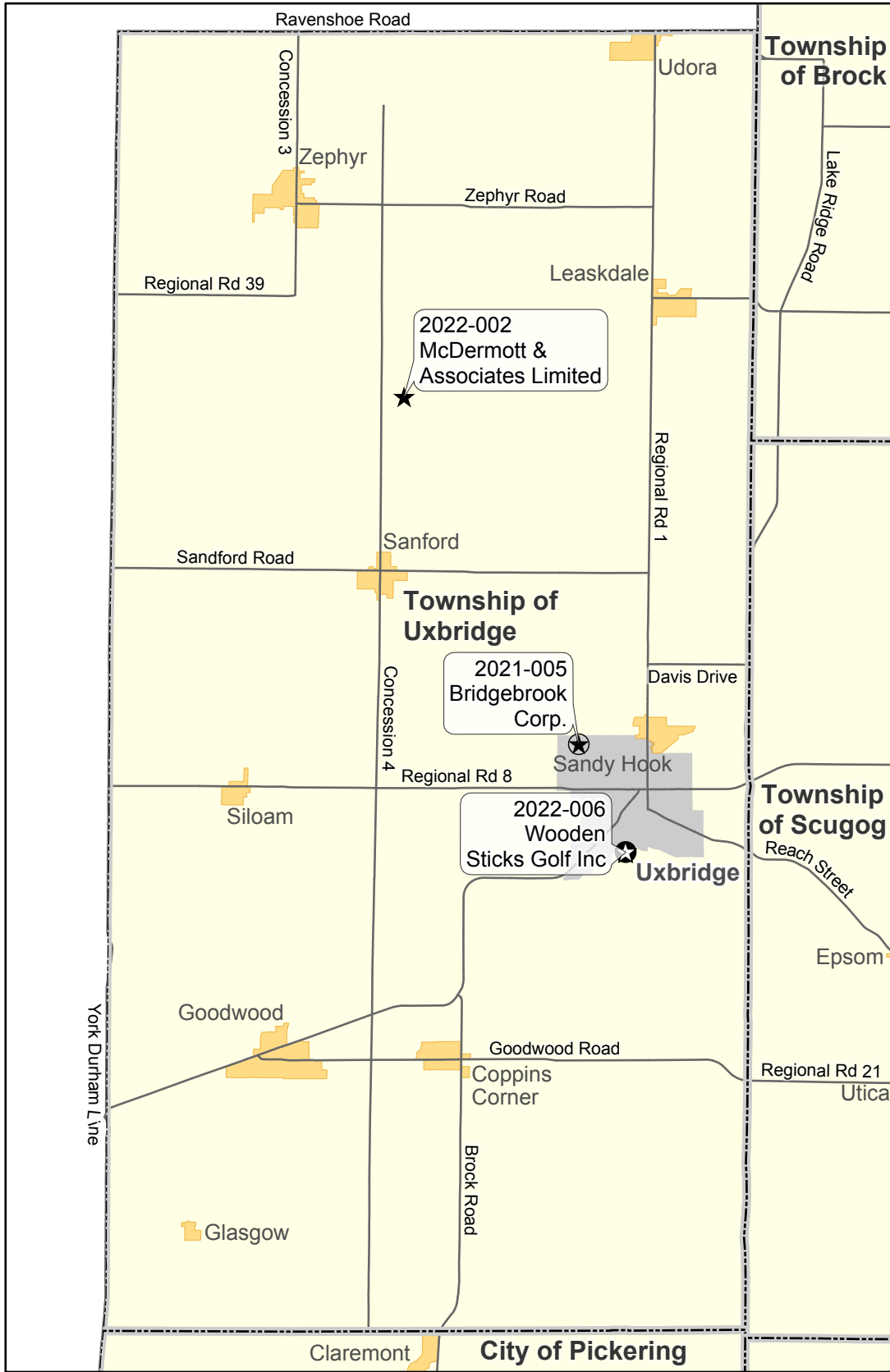
Please Note:
This map is intended for location purposes only.





Regional Official Plan Amendments (ROPAs) Township of Uxbridge

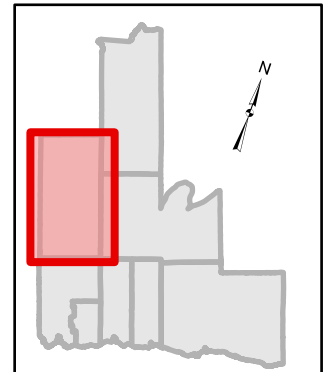
As of December 31 2023



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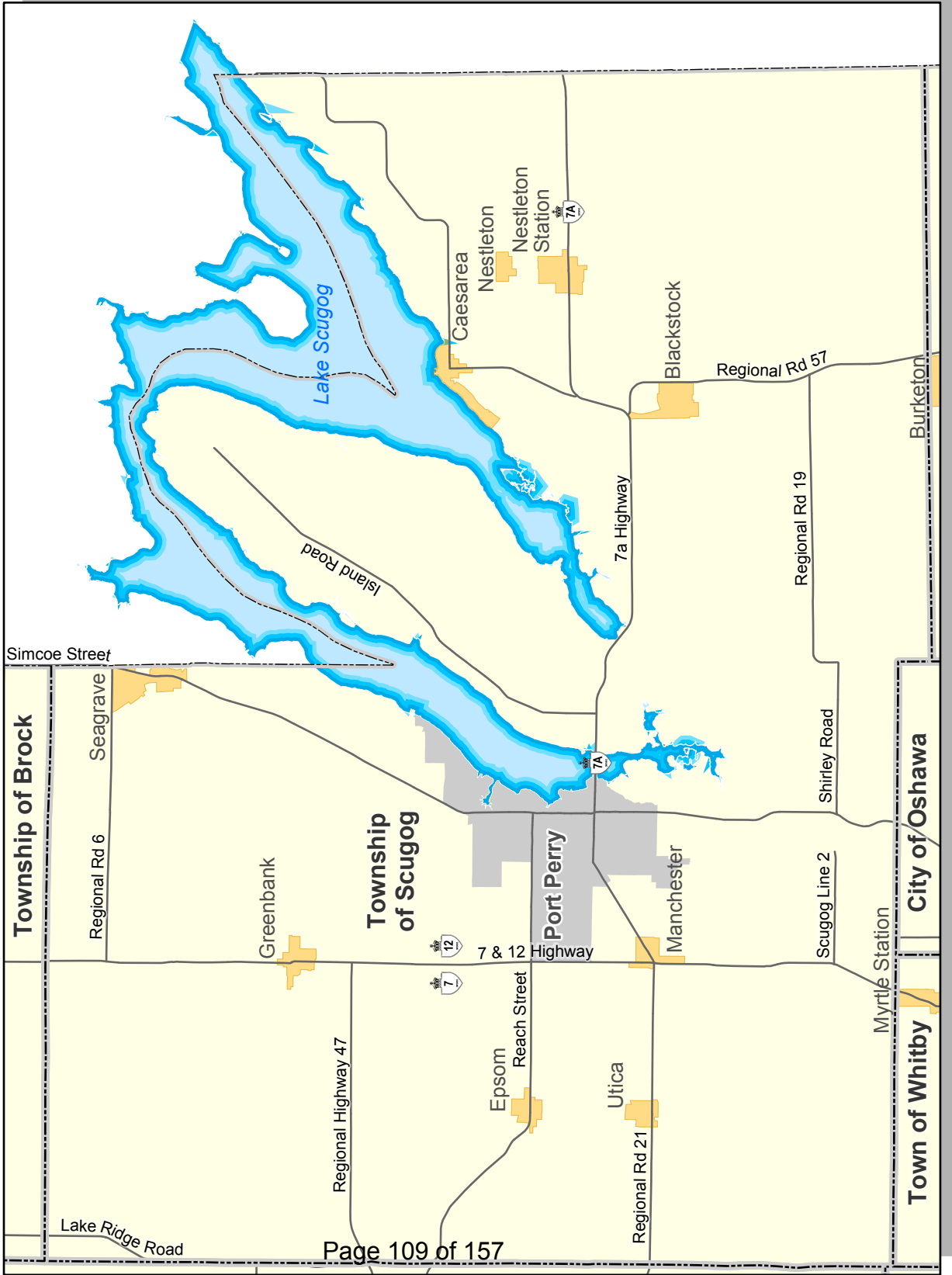




Regional Official Plan Amendments (ROPAs)

Township of Scugog

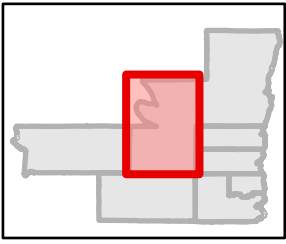
As of December 31 2023 there are no active ROPA applications in the Township of Scugog



ROPA Locations

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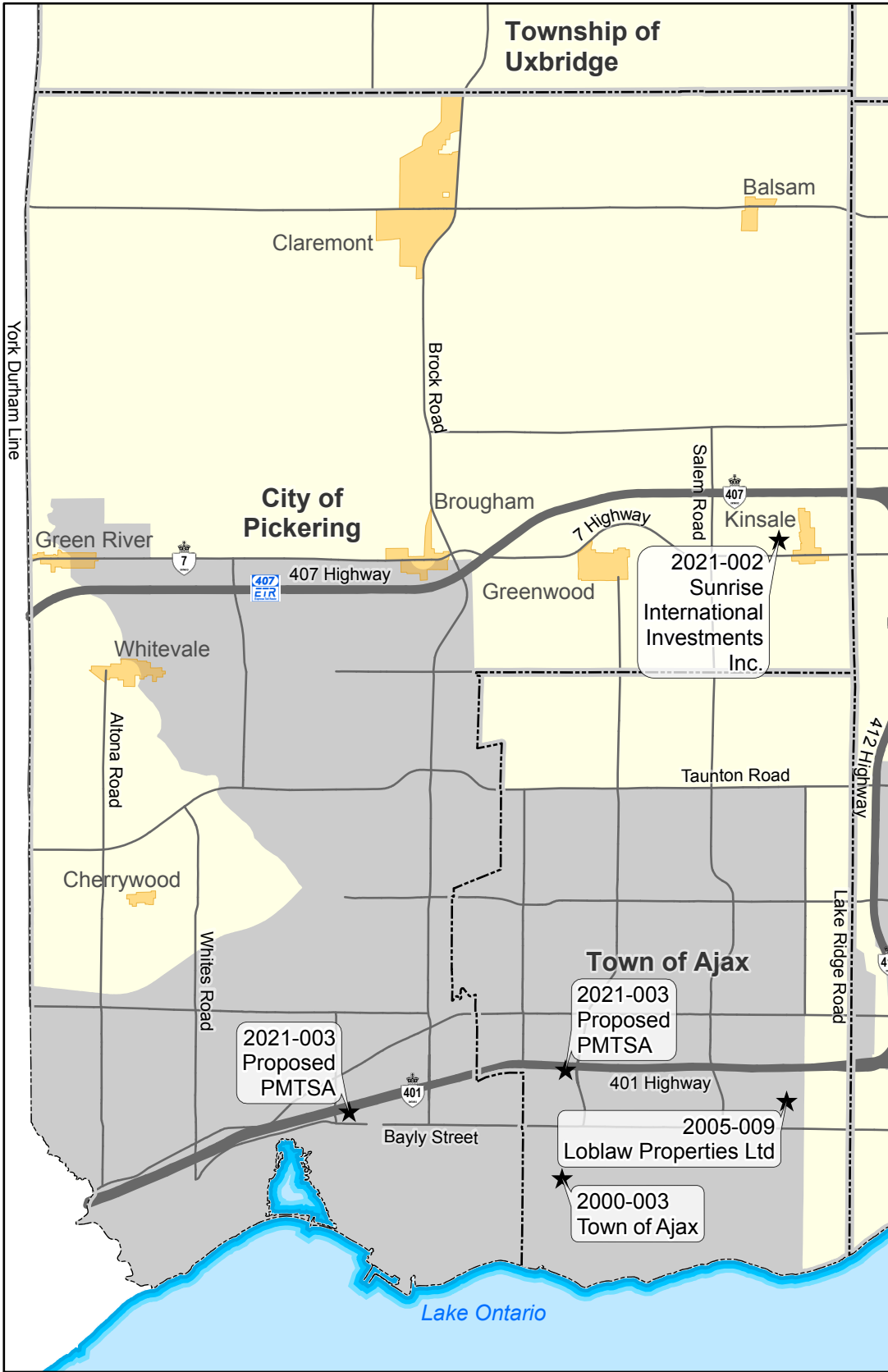
Please Note:
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Regional Official Plan Amendments (ROPAs) City of Pickering - Town of Ajax

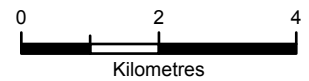
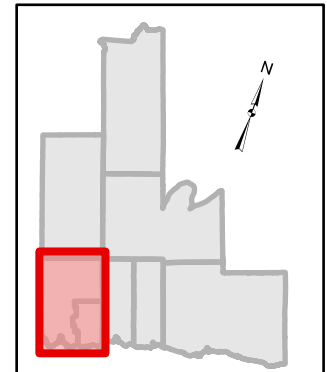
As of December 31 2023



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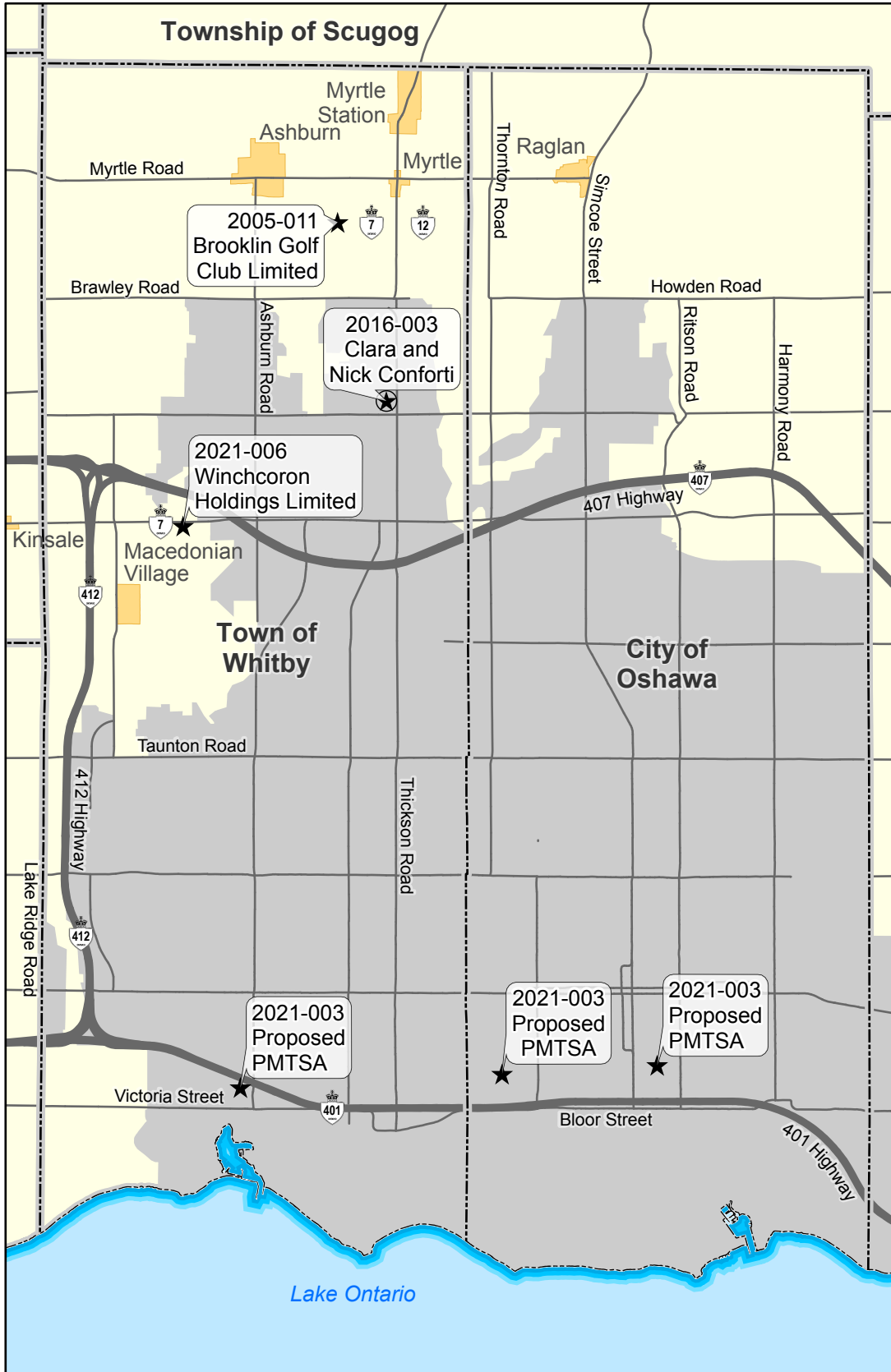
Please Note:
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Regional Official Plan Amendments (ROPAs) Town of Whitby - City of Oshawa

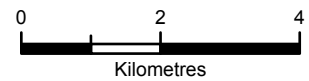
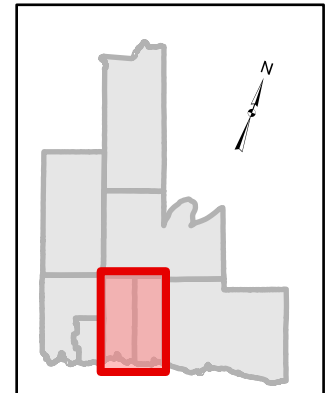
As of December 31 2023



ROPA Locations

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Regional Official Plan Amendments (ROPAs)

Municipality of Clarington

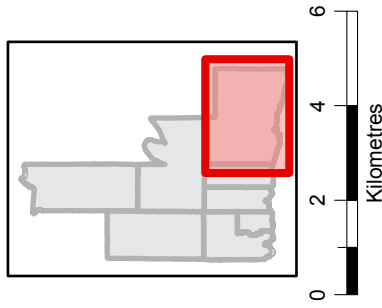
As of December 31 2023



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**Non-Exempt Area Municipal Planning Applications Under Appeal Before the
Ontario Land Tribunal (As of December 31, 2023)**

Regional File No./OLT Case No.	Applicant	Municipality	Purpose	Status
OPA 66 OLT-22-002958 &OLT-22-002959	Bridgebrook Corp.	Township of Uxbridge	To redesignate the lands at 7370 Centre Road from Future Residential Area to Residential.	Applicant appealed to the Township of Uxbridge's failure to make a decision on March 16, 2022. This application is related to ROPA 2021-005. An OLT Case Management Conference was held September 1, 2022, and OLT Case Management Conference conducted on September 1, 2022. Settlement Hearing was scheduled for January 15, 2024.
COPA 2020-003 OLT-22-004850	Wasser and Yassim Philobes	Municipality of Clarington	Appealing the low-density designation on specific parcel of land to permit a higher density use. Appealed various policies and sections of the Southwest Courtice Secondary Plan.	The second Case Management Conference was scheduled for November 7, 2023. Awaiting OLT Decision.

Regional File No./OLT Case No.	Applicant	Municipality	Purpose	Status
OPA 20-004/P (OPA 38) OLT-22-004770	City of Pickering	City of Pickering	To add new policies and change existing policies and land use designations to the Pickering Official Plan to enable the redevelopment and intensification of the Kingston Road Corridor and Specialty Retailing Node, and to identify required infrastructure improvements and transportation connections throughout the area in support of anticipated population and employment growth.	The second Case Management Conference was held May 26, 2023, a third Case Management Conference is scheduled for July 28, 2023. The matter has been adjourned with no new date set. All the parties have indicated that their appeals will be site specific, and the City is working with the parties on next steps on how to proceed with the scoped appeals.
COPA 2022-0003, OLT-23-000308	VAD Retail Limited	Municipality of Clarington	Appealing failure of the Municipality of Clarington to make a decision within 120 days on the applicant's applications to permit a townhouse and seniors housing campus.	A second Case Management Conference was scheduled for November 7, 2023.

**Regional Land Division Committee Applications Currently Before the Ontario
Land Tribunal (as of December 31, 2023)**

Regional File No./OLT Case No	Applicant	Municipality	Purpose	Status
LD 041/2023 OLT-23-001036	Brundale Fine Homes Ltd.	Township of Uxbridge	The purpose of this application is to sever a 835.60 m ² residential parcel of land, retaining a 835.64 m ² residential parcel of land. Existing dwelling is to be demolished.	Application was appealed to the OLT on August 3, 2023. Waiting a hearing date for OLT hearing.

Summary of Reserved Street Names (As of September 30, 2023)

Municipality	Number of New Street Names Added in third Quarter of 2023	New Street Names Added*	Total Number of Street Names Reserved
Ajax	0		318
Brock	0		45
Clarington	0		655
Oshawa	0		465
Pickering	1	Wonder	659
Scugog	0		218
Uxbridge	0		153
Whitby	0		478
Total	1		2,977

* At this point in time not all suffixes have been assigned.



Interoffice Memorandum

Date: March 22, 2024

To: Health & Social Services Committee

From: Dr. Robert Kyle

Subject: Health Information Update – March 17, 2024

Health
Department

Please find attached the latest links to health information from the Health Department and other key sources that you may find of interest. Links may need to be copied and pasted directly in your web browser to open, including the link below.

You may also wish to browse the online Health Department Reference Manual available at [Board of Health Manual](#), which is continually updated.

Boards of health are required to “superintend, provide or ensure the provision of the health programs and services required by the [Health Protection and Promotion] Act and the regulations to the persons who reside in the health unit served by the board” (section 4, clause a, HPPA). In addition, medical officers of health are required to “[report] directly to the board of health on issues relating to public health concerns and to public health programs and services under this or any other Act” (sub-section 67.(1), HPPA).

Accordingly, the Health Information Update is a component of the Health Department’s ‘Accountability Framework’, which also may include program and other reports, Health Plans, Quality Enhancement Plans, Durham Health Check-Ups, business plans and budgets; provincial performance indicators and targets, monitoring, compliance audits and assessments; RDPS certification; and accreditation by Accreditation Canada.

Respectfully submitted,

Original signed by

R.J. Kyle, BSc, MD, MHSc, CCFP, FRCPC, FACPM
Commissioner & Medical Officer of Health

*“Service Excellence
for our Communities*

UPDATES FOR HEALTH & SOCIAL SERVICES COMMITTEE
March 17, 2024

Health Department Media Releases/Publications

tinyurl.com/yaxcrbyw

- Small steps to eating healthy when managing food costs (Mar 5)

tinyurl.com/2p8bn8ve

- Health Department stresses the importance of eye examinations for school-aged children (Mar 14)

GOVERNMENT OF CANADA

Canada Revenue Agency

tinyurl.com/5n7jb4rk

- The Government of Canada is helping lower-income individuals more easily access the benefit and credit payments they are entitled to (Mar 4)

Department of Finance Canada

tinyurl.com/yc3ds5kt

- Supporting Canadian businesses with alcohol excise duty relief (Mar 9)

Employment and Social Development Canada

tinyurl.com/5y752fet

- More than 1 million seniors approved for the Canadian Dental Care Plan to date (Mar 6)

Environment and Climate Change Canada

tinyurl.com/49xtvf89

- Canada and Ontario commit to significant collaboration on shared nature conservation goals (Mar 11)

Health Canada

tinyurl.com/p4sj6mz7

- Improving the working lives of nurses across Canada (Mar 4)

tinyurl.com/2rmndwwp

- Message from the Minister of Health – Nutrition Month (Mar 5)

tinyurl.com/5ucxwv7

- Oral Health Providers can now sign up to participate in the Canadian Dental Care Plan (Mar 11)

tinyurl.com/yc4d9c9u

- Supporting Internationally Educated Nurses joining the Canadian health workforce (Mar 14)

Innovation, Science and Economic Development Canada

tinyurl.com/5n7fmb2u

- Government of Canada invests in 7,700 world-class researchers and projects across the country (Mar 13)

Natural Resources Canada

tinyurl.com/44c94tbc

- Federal Investment for New EV Chargers Across Ontario (Mar 5)

<https://tinyurl.com/4p7tjbym>

- Government of Canada Invests \$16.7 Million to Support Ontario's Power Grid Operator With Delivering Reliable, Affordable and Clean Energy (Mar 6)

Public Health Agency of Canada

tinyurl.com/yc7skrrw

- Message from the Minister of Health and Minister of Sport and Physical Activity – World Obesity Day, March 4, 2024 (Mar 4)

tinyurl.com/4nzxbjk4

- Message from the Minister of Mental Health and Addictions and Associate Minister of Health – Black Mental Health Week 2024 (Mar 4)

tinyurl.com/29689phc

- Message from the Minister of Health on Canada's Fourth National Day of Observance for COVID-19 (Mar 11)

tinyurl.com/4b2npr3e

- Message from the Minister of Health, Minister of Mental Health and Addictions and Associate Minister of Health and Minister of Sport and Physical Activity – Brain Health Awareness Month and Brain Awareness Week (Mar 14)

Public Safety Canada

tinyurl.com/3f429e4h

- Statement from Minister LeBlanc (Mar 6)

Transport Canada

tinyurl.com/bdet5yma

- Government of Canada announces rail safety investments in Greater Toronto and Hamilton Areas and other regions in Ontario (Mar 7)

GOVERNMENT OF ONTARIO

Ministry of Long-Term Care

tinyurl.com/3akd3z47

- Ontario Creating New Nurse-Led Outreach Team in London (Mar 14)

tinyurl.com/42dwasej

- Ontario Breaks Ground on Long-Term Care Home in Pickering (Mar 15)

OTHER ORGANIZATIONS

Canadian Medical Association

tinyurl.com/s4s26kan

- Medical associations across the country oppose government efforts to restrict access to care (Mar 13)

Financial Accountability Office of Ontario

tinyurl.com/2nay9593

- FAO releases expenditure monitor 2023-24: Q3 (Mar 6)

Heart and Stroke Foundation

tinyurl.com/25cycz3

- A lifetime of risks: addressing women's heart and brain health at every age (Mar 7)

Home Care Ontario

tinyurl.com/3yrantpe

- 95% on Ontario Seniors Support Call to Immediately Increase Home Care Funding: Poll (Mar 15)

IC/ES

tinyurl.com/3bm67m6s

- People who died from a substance-related overdose faced significant gaps in treatment, report finds (Mar 5)

Mental Health Commission of Canada

tinyurl.com/ypm2tmv6

- Mental Health Commission of Canada leads development of new program to support employers with psychological health and safety audits (Mar 7)

Nuclear Waste Management Organization

tinyurl.com/mrtrp5m3

- NWMO Releases Updated Research Reinforcing Confidence that a Deep Geological Repository Can Safely Be Constructed (Mar 8)

World Health Organization

tinyurl.com/ymrz9k5v

- New manual released to support diagnosis of mental, behavioural and neurodevelopment disorders added in ICD-11 (Mar 8)



The Regional
Municipality of
Durham

Works Department

Memorandum

Date: March 22, 2024

To: Regional Chair Henry and Members of Regional Council

From: Ramesh Jagannathan, M.B.A, P.Eng. Acting 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 (Q3 - 2023) Long-Term Sampling System Report

The attached report for the third quarter (Q3) of 2023 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 July 17, 2023, to October 17, 2023, 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, and
4. Section 10 responds to inquiries received during the quarter.

End of Memo

Attachment: DYEC LTSS Quarterly (Q3 - 2023) Report
(July 17 to October 17, 2023)



Durham York Energy Centre
Long-Term Sampling System
Quarterly (Q3) Report
July - October

Prepared by

The Regional Municipality of Durham

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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 dioxin and furans at the Durham York Energy Centre (DYEC).

This report covers the third quarter (Q3) of 2023 and includes AMESA data collected from July 17 to October 17, 2023.

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 current 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 themselves 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. Council provided direction in 2021 to provide more frequent updates. Quarterly reports containing validated, calculated results for each AMESA sampling run for both boiler units are prepared for Council and subsequently posted to the website.

3. Cartridge Replacement Schedule

The AMESA sampling cartridge duration is approximately 30 days before it is removed and sent to the laboratory for analysis. As each boiler unit is independent, the duration may differ due to such things as alternating maintenance activities.

Table 1: AMESA Cartridge Replacement Schedule

Unit #	Run #	Start Date	End Date	Duration (days)
1	86	17-Jul-23	10-Aug-23	18
2	86	17-Jul-23	10-Aug-23	18
1	87	11-Aug-23	8-Sept-23	28
2	87	11-Aug-23	14-Sept-23	28
1	88	8-Sept-23	6-Oct-23	28
2	88	14-Sept-23	17-Oct-23	19

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

4. Laboratory Analysis

There were no issues 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 Covanta Monthly Data and Operations Review

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

6. Oversight of AMESA Results

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

Any events which 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 2021 Annual Report as posted via this link: [MECP Review of the DYEC 2021 Annual Report](#). [The 2022 Annual Report](#) has been posted to the website.

7. AMESA Performance

The measured concentrations for each of the 17 dioxin and furan congeners identified in the laboratory certificate of analysis are applied to established calculations to obtain a calculated result. These calculations quantify the dioxins and furans per cubic metre of gas at reference conditions. Additionally, 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 dioxin and furan congeners are multiplied by their respective toxic equivalency factor (TEF) and added together to obtain a total dioxin and furan total toxic equivalence (TEQ). The ECA for the DYEC specifies the use of the NATO classification scheme for dioxins and furans and therefore the NATO TEF factors are applied to obtain the TEQ calculation. The Table below shows each of the AMESA sampling Runs, 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 ³)
1	86	17-Jul-23	10-Aug-23	0.247
2	86	17-Jul-23	10-Aug-23	4.221

Unit #	Run #	Start Date	End Date	Calculated Result (pg TEQ/Rm ³)
1	87	11-Aug-23	8-Sept-23	55.129
2	87	11-Aug-23	14-Sept-23	0.332
1	88	8-Sept-23	6-Oct-23	9.342
2	88	14-Sept-23	17-Oct-23	1.318

While AMESA has no regulatory limit associated for 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 Covanta will continue to monitor DYEC performance as it relates to AMESA results and trends. The Table below displays the results of the AMESA sampling runs conducted in the third quarter (Q3) of 2023.

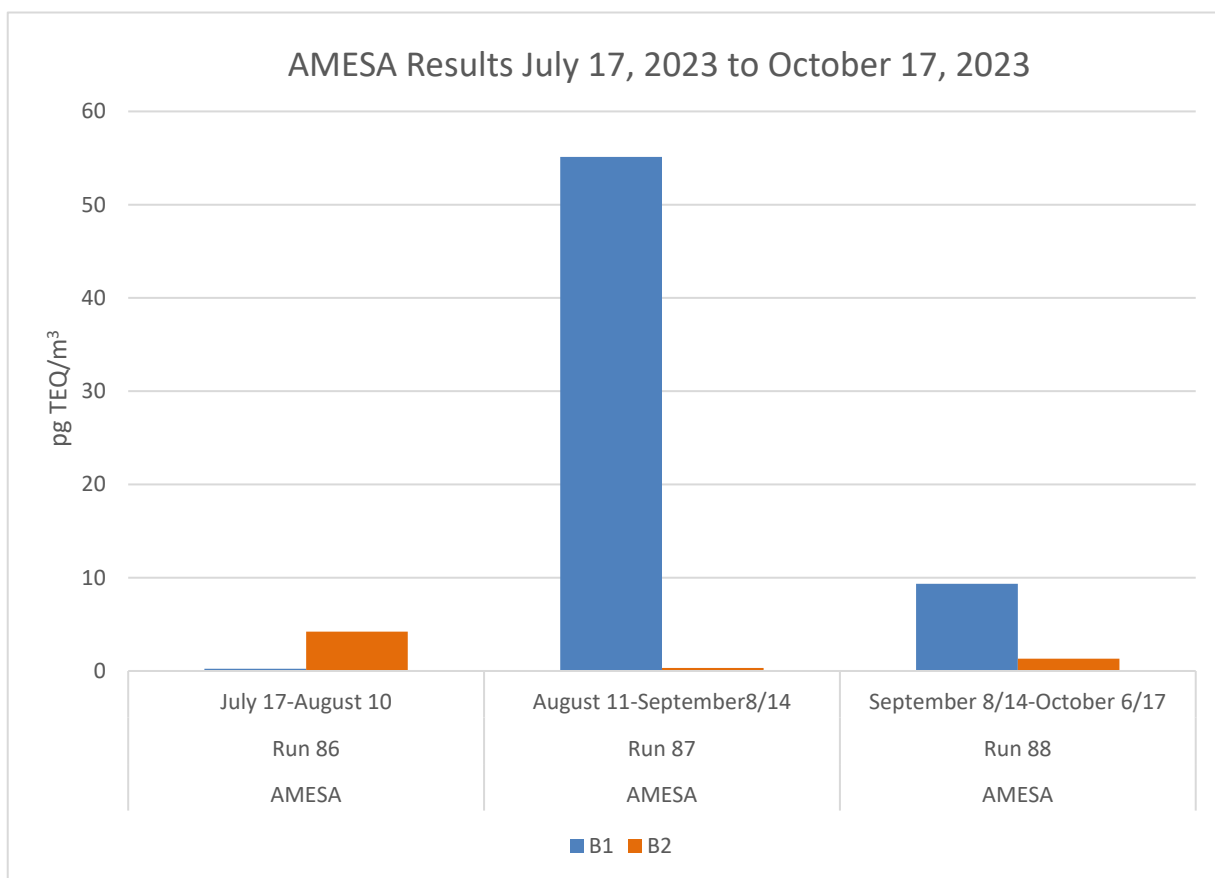


Figure 1: AMESA Results July 17 to October 17, 2023

7.1 Investigation

There were no results that formally triggered the AMESA Investigation Checklist during the third quarter (Q3) of 2023 as described in the AMESA workplan. However, given the anomalous value, the AMESA checklist was undertaken as a due diligence exercise to investigate the result received for boiler unit #1, Run 87, due to the elevated sample result. The investigation found no unusual operational events which may have led to the elevated sample result. However, it is noteworthy that subsequent to the sample being completed, for Boiler #1, Run 88, the AMESA unit experienced a failure and required a number of components to be repaired or replaced. This suggests that the AMESA system may have been experiencing operational issues during this period. Given the following system problems, and the fact that the results of the source test fell within normal ranges; the system will continue to be monitored and assessed for any potential trends.

7.2 Corrective Action

As a result of the AMESA checklist and due diligence investigation results, there were no findings which required that corrective actions be undertaken during the third quarter (Q3) of 2023. Further discussion of the AMESA system failure will be discussed in the Q4 report.

8. AMESA relative to most current Source Testing Dioxin and Furan Results

AMESA is not used to assess compliance and should not be evaluated against Ministry standards, such as the dioxin and furan 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.

The AMESA results are presented in Figure 2 to show how the Q3 calculated values compare to the most current source testing results. The source test compliance limit for dioxins and furans is 60 pgTEQ/m³. The chart below shows the AMESA Q3, 2023 results as compared to the 2023 September source test results. Results from the September source test also indicated the dioxins and furans result is below the regulatory compliance limit.

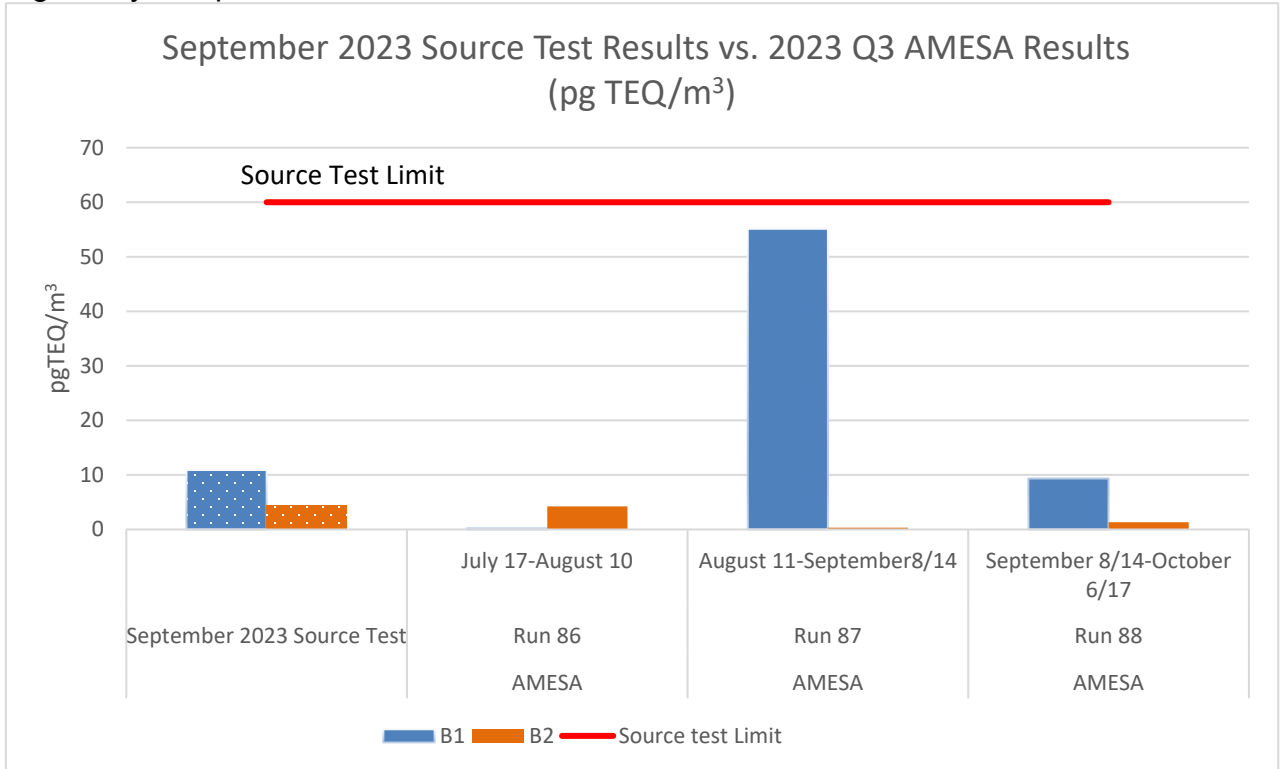


Figure 2: September 2023 Source Test Results vs. 2023 Q3 AMESA Results (pg TEQ/m³)

9. Ambient Air Dioxin and Furan Results – Third Quarter (Q3) 2023

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 does provide an indication of local air quality. The monitoring equipment samples air, which captures ambient air emissions from a variety of emissions sources in the area. The results of ambient air monitoring assist in informing on local air quality and may suggest contributing factors based on meteorological conditions such as wind speed and direction.

As can be seen in the graph below, the dioxin and furan results measured from both ambient air stations monitored as part of the DYEC ambient air monitoring program

are below the Ontario Ambient Air Quality Criteria of 0.1 picogram Toxic Equivalency per cubic metre (pgTEQ/m³) during the third quarter (Q3) of 2023.

Of additional note, the Ontario Ambient Air Quality Criteria is 10 times lower than the Ontario Regulation 419 Upper Risk Threshold of 1 pgTEQ/m³ for dioxins and furans.

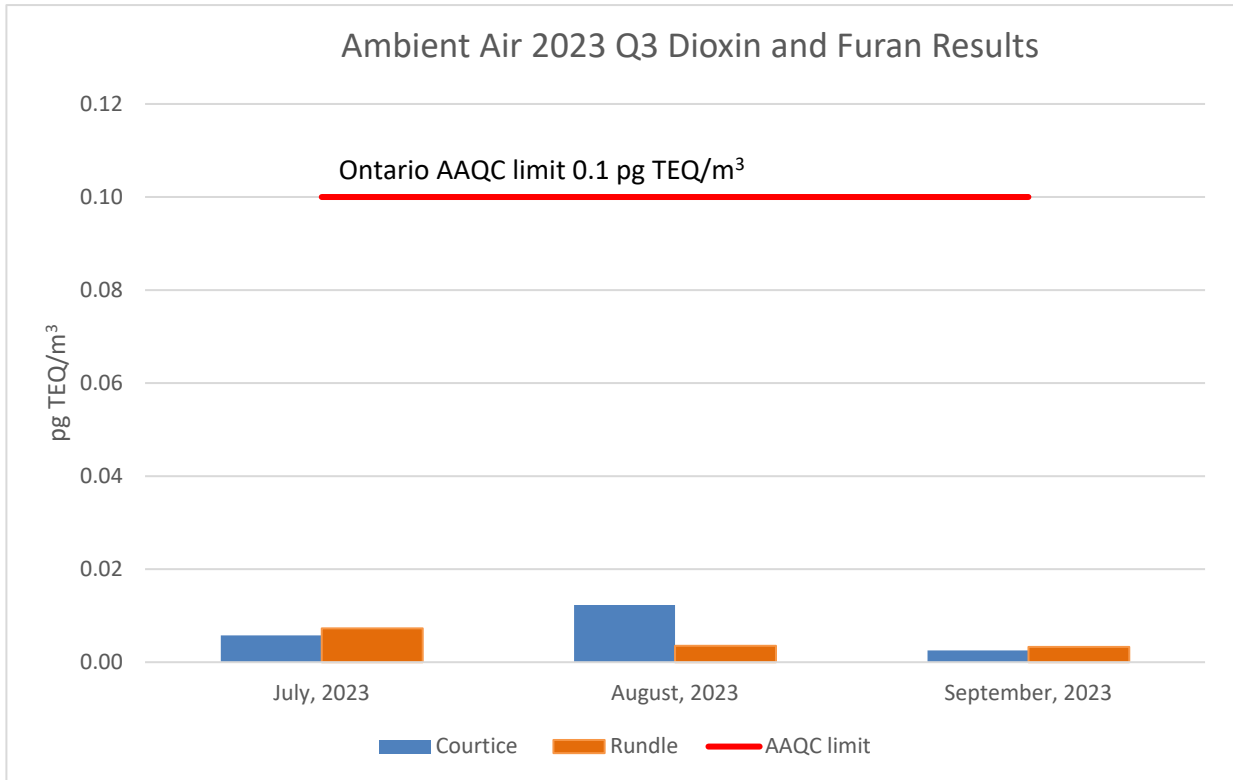



Figure 3: Ambient Air 2023 Q3 Dioxin and Furan Results

10. Durham York Energy Centre Inquiries

There are no outstanding inquiries related to the AMESA Long-Term Sampling System (LTSS) for dioxin and furans at the Durham York Energy Centre (DYEC).

End of Report



 Corporate Services Department Legislative Services Division	
Date & Time Received:	March 15, 2024 8:59 am
Original To:	CIP
Copies To:	
Take Appropriate Action	<input type="checkbox"/> File <input type="checkbox"/>
Notes/Comments:	

Hon. David Piccini
Minister of Labour,
Immigration, Training and
Skills Development
117 Peter St.
Port Hope, ON L1A 1C5
VIA EMAIL:
David.Piccini@pc.ola.org

Hon. Vic Fedeli
219 Main St. E
North Bay, ON P1B 1B2
VIA EMAIL:
Vic.Fedeli@pc.ola.org

Township of Puslinch
7404 Wellington Road 34
Puslinch, ON N0B 2J0
www.puslinch.ca

March 14, 2024

Association of Ontario Road
Supervisors (AORS)
VIA EMAIL:
Email: admin@aors.on.ca

Association of Municipalities
of Ontario (AMO)
VIA EMAIL:
amo@amo.on.ca

RE: 6.6 Municipality of Powassan resolution regarding Association of Ontario Roads Supervisors Training

Please be advised that Township of Puslinch Council, at its meeting held on February 28, 2024 considered the aforementioned topic and subsequent to discussion, the following was resolved:

Resolution No. 2024-066:

Moved by Councillor Bailey and
Seconded by Councillor Sepulis

That the Consent Agenda item 6.1.6 and 6.6 listed for FEBRUARY 28, 2024 Council meeting be received for information; and

Whereas the Township recognizes that public works departments are responsible for a number of skilled tasks such as proper forestry techniques, welding and metal fabrication, heavy equipment mechanics, and general carpentry skills;

That The Township of Puslinch Council supports the resolution by the Municipality of Powassan resolution regarding the Association of Ontario Roads Supervisors Training and in addition, it would be ideal to consider all aspects of a public works department when advocating for government funded training opportunities.



CARRIED

As per the above resolution, please accept a copy of this correspondence for your information and consideration.

Sincerely,

Justine Brotherston
Municipal Clerk

February 13, 2024

The Honourable David Piccini
Minister of Labour, Immigration, Training and Skills Development
Minister.MLITSD@ontario.ca

DELIVERED VIA EMAIL

RE: Municipal Equipment Operator Course

Dear Minister Piccini,

Please be advised that at the Regular Council Meeting of February 6, 2024, the council of the Municipality of Powassan passed the following resolution:

WHEREAS municipal public works departments from across the Province of Ontario provide invaluable services to our communities ensuring the health and safety of all residents;

AND WHEREAS, if it was not for our municipal public works employees from across the Province of Ontario maintaining our public roads systems, our communities would not be able to function as emergency personnel could not respond to calls, school buses could not get our children to school, residents would not be able to get to work, school or appointments and many more basic functions would not be able to happen;

AND WHEREAS, municipal public works departments are already feeling the impacts of a labour shortage, which will only be exasperated over the next three to five years, which will cause levels of service municipalities are able to provide to ensure the health and safety of our residents to decrease;

AND WHEREAS, there is currently no provincial-wide course that properly trains potential municipal public works employees, specifically relating to municipal heavy equipment.

THEREFORE, IT BE RESOLVED, that the Municipality of Powassan supports the work of the Association of Ontario Road Supervisors to develop a Municipal Equipment Operator Course to address this issue;

AND THAT, the Council of the Municipality of Powassan calls on the Province of Ontario's Ministry of Labour, Training, Immigration and Skilled Trades to fully fund the Municipal Equipment Operator

Course in 2024 through the Skills Development Fund;

AND THAT, a copy of this resolution be sent to the Minister of Labour, Training, Immigration and Skilled Trades David Piccini, Municipality of Powassan's Member of Provincial Parliament Honourable Vic Fedeli, and the Association of Ontario Road Supervisors.

If you have any questions regarding Resolution 2024-43, please feel free to contact me.


Sincerely,



Allison Quinn
Clerk
Municipality of Powassan

Cc: Municipality of Powassan's Member of Provincial Parliament Honourable Vic Fedeli
Association of Ontario Road Supervisors
AMO
All Municipalities in Ontario



 Corporate Services Department Legislative Services Division	
Date & Time Received:	March 15, 2024 9:01 am
Original To:	CIP
Copies To:	
Take Appropriate Action	<input type="checkbox"/> File <input type="checkbox"/>
Notes/Comments:	

VIA EMAIL:
All Ontario municipalities

Township of Puslinch
7404 Wellington Road 34
Puslinch, ON N0B 2J0
www.puslinch.ca

March 14, 2024

RE: 9.3.1 Report ADM-2024-010 Enbridge Gas Follow-Up

Please be advised that Township of Puslinch Council, at its meeting held on February 28, 2024 considered the aforementioned topic and subsequent to discussion, the following was resolved:

Resolution No. 2024-072: Moved by Councillor Goyda and
Seconded by Councillor Sepulis

That Council receives report ADM-2024-010 regarding the follow-up to the Enbridge Gas Presentation on February 7, 2024; and

Whereas access to natural gas is important to residents and businesses in our community for affordability and reliability; and

Whereas the Ontario Energy Board's (OEB) decision on Phase 1 of the Enbridge Gas 2024 rebasing application, issued on 21 December 2023, has concerning implications including putting into question the future access to natural gas that support of economic development, affordable housing growth, and energy reliability in communities such as the Township of Puslinch; and

Whereas Ontario is growing and access to affordable energy to support this growth for homes and businesses is crucial, and is a measured approach to energy transition as not having access to natural gas will stifle economic growth and put housing and energy affordability at risk; and

Whereas delivery rates for electricity in rural areas are significantly more costly than delivery rates in urban centres creating an inequity for those living in rural areas; and



Whereas Bill 165: Keeping Energy Costs Down Act, 2024, if passed, would reverse a December 2023 decision by the OEB that requires consumers to pay the cost of connecting a new home to natural gas infrastructure up front instead of over a period of 40 years; and

Whereas Bill 165: Keeping Energy Costs Down Act, 2024, if passed, would increase the OEB's Leave to Consult threshold from \$2 million to \$10 million, requiring that fewer energy projects would need OEB orders to construct a new pipeline resulting in project streamlining and focusing OEB approvals on larger, more complex projects;

Therefore be it resolved:

1. That the Township of Puslinch supports Bill 165: Keeping Energy Costs Down Act, 2024; and
2. That the Township of Puslinch supports a measured approach to Ontario's energy transition; and
3. That the Township of Puslinch recognizes that there may not be enough electricity available to replace the energy provided by natural gas and meet the increased demand from electrification; and
4. That Natural gas must continue to play an integral role in meeting the energy needs of Ontario; and
5. That the Township of Puslinch supports the need for equitable electricity delivery rates in rural areas and natural gas offers an affordable option for these rural areas at this time; and
6. That the Township of Puslinch supports the work the Government of Ontario has done to date, including the Natural Gas Expansion Program and Electrification and Energy Transition Panel's call for a clear policy on the role of natural gas to secure access to affordable energy; and
7. That this resolution be circulated to the President of AMO, Colin Best, Hon. Doug Ford, Premier of Ontario, Hon. Todd Smith, the Minister of Energy, Hon. MPP Arnott, Hon. MPP Rae, all Ontario municipalities as significant actors to ensuring the need for natural gas in



Ontario as part of a measured approach towards energy transition, and submitted to municipalaffairs@enbridge.com; and further

That Council direct staff to consult with Enbridge Gas on the next steps associated with commencing the Community Natural Gas Expansion Program in Puslinch subject to the passing of Bill 165: Keeping Energy Costs Down Act, 2024.

CARRIED

As per the above resolution, please accept a copy of this correspondence for your information and consideration.


Sincerely,

Justine Brotherston
Municipal Clerk

CC:
Premier of Ontario, Hon. Doug Ford,
Minister of Energy, Hon. Todd Smith
Hon. MPP Arnott,
Hon. MPP Rae,
All Ontario municipalities

March 18, 2024

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

 Corporate Services Department Legislative Services Division	
Date & Time Received:	March 19, 2024 8:59 am
Original To:	CIP
Copies To:	
Take Appropriate Action	<input type="checkbox"/> File <input type="checkbox"/>
Notes/Comments:	

DELIVERED VIA EMAIL

Dear Premier Ford,

RE: Request to the Province to Amend Blue Box Regulation for 'Ineligible' Sources

At our regular meeting on March 12, 2024, the Council of the Corporation of the Township of Loyalist passed the following:

Resolution 2024-48

Moved by Councillor Willis
 Seconded by Councillor Parks

WHEREAS under Ontario Regulation 391/21: Blue Box producers are fully accountable and financially responsible for their products and packaging once they reach their end of life and are disposed of, for 'eligible' sources only;

AND WHEREAS 'ineligible' sources which producers are not responsible for include businesses, places of worship, daycares, campgrounds, public-facing and internal areas of municipal-owned buildings, commercial farms and not-for-profit organizations, such as shelters and food banks;

AND WHEREAS should a municipality continue to provide services to the 'ineligible' sources, the municipality will be required to oversee the collection, transportation, and processing of the recycling, assuming 100% of the costs;

AND BE IT RESOLVED THAT the Council of the Corporation of the Township of Loyalist hereby request that the province amend Ontario Regulation 391/21: Blue Box so that producers are responsible for the end-of-life management of recycling products from all sources;



AND THAT Council of The Corporation of Loyalist Township hereby request the support of all Ontario Municipalities;

AND FURTHER THAT this resolution be forwarded to the Honourable Doug Ford, Premier of Ontario, the Honourable Andrea Khanjin, Minister of the Environment, Conservation, and Parks, the Honourable Ric Bresee, MPP Hastings – Lennox & Addington, and to all Ontario municipalities.

Your attention to this matter is greatly appreciated.

Sincerely,

A handwritten signature in blue ink, appearing to read "Anne Kantharajah".

Anne Kantharajah
Township Clerk

AK/ch

cc: Honourable Andrea Khanjin, Minister of Environment, Conservation and Parks
Ric Bresee, MPP Hastings – Lennox & Addington
All Ontario Municipalities
Jim Hegadorn, Mayor, Loyalist Township
Rebecca Murphy, CAO, Loyalist Township
Councillor Willis, Loyalist Township
Councillor Parks, Loyalist Township



Corporate Services Department
Legislative Services Division

March 18, 2024

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

Date & Time Received:	March 19, 2024 8:52 am
Original To:	CIP
Copies To:	
Take Appropriate Action	<input type="checkbox"/> File <input type="checkbox"/>
Notes/Comments:	

DELIVERED VIA EMAIL

Dear Premier Ford:

Re: Motion regarding solutions to resolve significant financial and budgetary pressures relating to infrastructure development, maintenance and repairs

Please be advised that at its regular meeting of March 12, 2024, Loyalist Township Council passed the following resolution:

Resolution 2024-49

Moved by Councillor Budarick
Seconded by Councillor Parks

WHEREAS the Province of Ontario has agreed to assume responsibility for the Gardiner Expressway and the Don Valley Parkway from the City of Toronto, which will be uploaded to the Province of Ontario;

AND WHEREAS like the City of Toronto, The Corporation of Loyalist Township and all municipalities in the Province of Ontario are experiencing significant financial and budgetary pressures including those related to infrastructure development, maintenance and repairs, and are seeking reasonable solutions to address the same while balancing their financial books;

AND WHEREAS the uploading of municipal highway infrastructure to the Province of Ontario or, alternatively, appropriately increasing the Ontario Community Infrastructure Fund to Ontario municipalities will assist municipalities in addressing such financial challenges;

AND BE IT RESOLVED THAT:

- a. The Province of Ontario:



- upload from local municipalities the responsibility of and costs associated with the continued construction, operation, and maintenance of major municipally-owned highways throughout the Province of Ontario to the Ontario Ministry of Transportation; or
 - alternatively, if uploading is not the preferred option of the Province and/or local municipality, to appropriately increase the Ontario Community Infrastructure Fund to municipalities so as to fairly and equitably allocate resources to Ontario municipalities.
- b. A copy of this resolution be circulated the Honourable Prabmeet Singh Sarkaria, the Ontario Minister of Transportation; MPP Ric Bresee, Hastings, Lennox & Addington; the Association of Municipalities of Ontario; all municipalities in Ontario.


Kind Regards,

A handwritten signature in blue ink that reads "Anne Kantharajah".

Anne Kantharajah
Township Clerk

Cc: the Hon. Prabmeet Singh Sarkaria, the Ontario Minister of Transportation
Ric Bresee, M.P.P., Hastings, Lennox & Addington
Association of Municipalities
All municipalities in Ontario
Jim Hegadorn, Mayor, Loyalist Township
Rebecca Murphy, CAO, Loyalist Township
Councillor Budarick, Loyalist Township
Councillor Parks, Loyalist Township



 Corporate Services Department Legislative Services Division	
Date & Time Received:	March 15, 2024 8:56 am
Original To:	CIP
Copies To:	
Take Appropriate Action	<input type="checkbox"/> File <input type="checkbox"/>
Notes/Comments:	

March 13th, 2024

Premier's Office
Room 281
Legislative Building, Queen's Park
Toronto, ON M7A 1A1

Ministry of Labour, Immigration, Training and Skills Development
14th Floor
400 University Ave
Toronto, ON M7A 1T7

Ministry of Legislative Affairs
Main Legislative Building
Room 223
111 Wellesley St. W
Toronto, ON M7A 1A8

ATTENTION: Hon. Doug Ford, Hon. David Piccini, & Hon. Paul Calandra

Dear Premier Ford, Hon. David Piccini, & Hon. Paul Calandra:

RE: Resolution – Expanding the Life of Fire Apparatus

Please be advised that the Council of the Corporation of the Township of Lanark Highlands passed the following resolution at their regular meeting held March 13th, 2024:

Moved by Councillor Kelso

Seconded by Councillor Closs

THAT, the Council of the Township of Lanark Highlands supports the resolution from the Village of Merrickville Wolford regarding Expanding the Life of Fire Apparatus;

AND THAT, this resolution be sent to Premier Doug Ford, the Honourable David Piccini, Minister of Labour, Immigration, Training and Skills Development, Paul Calandra, Minister of Municipal Affairs and Housing;



AND FURTHER THAT, this resolution be circulated to all Ontario municipalities, the Federation of Canadian Municipalities (FCM), the Association of Municipalities of Ontario (AMO) and the Eastern Ontario Warden's Caucus (EOWC).

Resolved

Sincerely,

Amanda Noël

Amanda Noël,
Clerk/Acting CAO

Encls.

c.c. All Ontario Municipalities
Federation of Canadian Municipalities (FCM)
Eastern Ontario Warden's Caucus (EOWC)
Association of Municipalities



Village of Merrickville Wolford

317 Brock Street W PO Box 340
Merrickville, ON K0G 1N0
T: 613-269-4791
W: Merrickville-wolford.ca

February 16, 2024

The Honourable Doug Ford
Premier of Ontario
premier@ontario.ca

Re: Expanding the Life of Fire Apparatus

Please be advised that the Council of the Corporation of the Village of Merrickville-Wolford, at its regular meeting on February 12th, 2024, passed the following motion endorsing the resolution from Prince Edward County regarding Expanding the Life of Fire Apparatus.

Resolution #: R-21-12-02-24
Moved by: Deputy Mayor Barr
Seconded by: Councillor Ireland

THAT the Council of the Corporation of the Village of Merrickville-Wolford endorse the resolution received from Prince Edward County regarding support for the Province to expand the life span of fire apparatus, specifically pertaining to the replacement of fire trucks due to insurance requirements Fire Underwriters Survey requesting the creation of a new community fire-protection and fire prevention insurance system that does not put all municipalities under the same umbrella, with distinct categories for rural and urban municipalities.

Carried.

If you have any questions regarding the above resolution, please do not hesitate to contact me by email at clerk@merrickville-wolford.ca.

Your truly,

Julia McCaugherty-Jansman
Clerk

January 22, 2024

Please be advised that during the regular Council meeting of January 16, 2024 the following motion regarding support for the Province to expand the life span of fire apparatus, specifically pertaining to the replacement of fire trucks due to insurance requirements was carried:

RESOLUTION NO. 2024-46

DATE: January 16, 2024

MOVED BY: Councillor Nieman

SECONDED BY: Councillor Branderhorst

WHEREAS By-Law 3256-2013, being a By-Law to Establish, Maintain, and Operate a Fire Department established service level standards for the Corporation of the County of Prince Edward Fire Department;

AND WHEREAS apparatus and equipment are directly tied to the delivery of fire protection services authorized by Council in By-Law 3256-2013, and a safe, reliable and diverse fleet is required to serve operational needs;

AND WHEREAS fire Apparatus is governed by industry best practices, the application of law and recognized industry partners, including the Ontario Fire Service Section 21 Guidance Notes, National Fire Protection Association Standards, The Occupational Health and Safety Act, and Fire Underwriters Survey (FUS);

AND WHEREAS Fire Underwriters Survey (FUS) is a provider of data, underwriting, risk management and legal/regulatory services focusing on community fire-protection and fire prevention systems in Canada, establishing apparatus replacement schedules based on safety and risk mitigation practices;

AND WHEREAS on November 16, 2023, Council, received report FD-06-2023 regarding asset Management - Fire Apparatus Fleet Report and noted the budgetary pressures of meeting FUS replacement schedules;

AND WHEREAS no provincial funding is available for new fire trucks, yet, small and rural municipalities must meet the same standards set by FUS as larger municipalities for fire equipment, including additional pressure to move fire trucks out when they reach a specific age, even though they can still meet the safety regulations;

THEREFORE BE IT RESOLVED THAT the Council of the Corporation of Prince Edward County direct the Mayor to draft a letter to MPP Minister Todd Smith requesting a meeting to discuss the life span of fire apparatus, specifically pertaining to the replacement of fire trucks due to insurance requirements; and

THAT the Mayor draft a letter to FUS requesting the creation of a new community fire-protection and fire prevention insurance system that does not put all municipalities under the same umbrella, with distinct categories for rural and urban municipalities;

THAT this resolution be sent to Premier Doug Ford, the Honourable David Piccini, Minister of Labour, Immigration, Training and Skills Development, Paul Calandra, Minister of Municipal Affairs and Housing requesting a response on this matter within 30 days of receipt; and

THAT this resolution be shared with all 444 municipalities in Ontario, The Federation of Canadian Municipalities (FCM), The Association of Municipalities Ontario (AMO), and The Eastern Ontario Wardens' Caucus (EOWC).

CARRIED

Yours truly,




Catalina Blumenberg, **CLERK**

cc: Mayor Steve Ferguson, Councillor Nieman, Councillor Branderhorst, Marcia Wallace, CAO and Fire Chief Chad Brown





 Corporate Services Department Legislative Services Division	
Date & Time Received:	March 15, 2024 9:03 am
Original To:	CIP
Copies To:	
Take Appropriate Action	<input type="checkbox"/> File <input type="checkbox"/>
Notes/Comments:	

March 14, 2024

Re: Item for Discussion – Resolution of Support Regarding Request to the Province of Ontario for New Provincial-Municipal Fiscal Framework

At its meeting of March 13, 2024, the Council of the Corporation of the Town of Bracebridge ratified motion #24-GC-053, regarding Resolution of Support Regarding Request to the Province of Ontario for New Provincial-Municipal Fiscal Framework, as follows:

“WHEREAS the current provincial-municipal fiscal arrangements are undermining Ontario’s economic prosperity and quality of life;

AND WHEREAS nearly a third of municipal spending in Ontario is for services in areas of provincial responsibility and expenditures are outpacing provincial contributions by nearly \$4 billion a year;

AND WHEREAS municipal revenues, such as property taxes, do not grow with the economy or inflation;

AND WHEREAS unprecedented population and housing growth will require significant investments in municipal infrastructure;

AND WHEREAS municipalities are being asked to take on complex health and social challenges – like homelessness, supporting asylum seekers and addressing the mental health and addictions crises;

AND WHEREAS inflation, rising interest rates, and provincial policy decisions are sharply constraining municipal fiscal capacity;

AND WHEREAS property taxpayers – including people on fixed incomes and small businesses – can’t afford to subsidize income re-distribution programs for those most in need;

AND WHEREAS the province can, and should, invest more in the prosperity of communities;

AND WHEREAS municipalities and the provincial government have a strong history of collaboration;

NOW THEREFORE, BE IT RESOLVED THAT the Town of Bracebridge calls on the Province of Ontario commit to undertaking, with the Association of Municipalities of Ontario, a comprehensive social and economic prosperity review to promote the stability and sustainability of municipal finances across Ontario;

1000 Taylor Court
 Bracebridge, ON
 P1L 1R6 Canada

telephone: (705) 645-5264
 corporate services and finance fax: (705) 645-1262
 public works fax: (705) 645-7525
 planning & development fax: (705) 645-4209

AND FURTHER THAT a copy of this motion be sent to the Premier of Ontario; the Minister of Municipal Affairs and Housing; the Minister of Finance; the Local Member of Provincial Parliament; the Association of Municipalities of Ontario; the Association of Municipal Managers, Clerks and Treasurers of Ontario (AMCTO); the Muskoka and Area Indigenous Leadership Table (MAILT); and all Ontario Municipalities.”

In accordance with Council's direction, I am forwarding you a copy of the resolution for your reference.

Please do not hesitate to contact me if I can provide any additional clarification in this regard.

Yours truly,


A handwritten signature in black ink, appearing to read 'Lori McDonald', written in a cursive style.

Lori McDonald
Director of Corporate Services/Clerk

Resolution Number 2024-067

Title: Support Resolution: Ontario's economic prosperity and quality of life

Date: Monday, March 18, 2024

 Corporate Services Department Legislative Services Division	
Date & Time	March 19, 2024
Received:	11:52 am
Original To:	CIP
Copies To:	
Take Appropriate Action	<input type="checkbox"/> File <input type="checkbox"/>
Notes/Comments:	

Moved by Councillor Jaworski

Seconded by Councillor Bayle

Whereas current provincial-municipal fiscal arrangements are undermining Ontario's economic prosperity and quality of life;

And whereas nearly a third of municipal spending in Ontario is for services in areas of provincial responsibility, and expenditures are outpacing provincial contributions by nearly \$4 billion a year;

And whereas municipal revenues, such as property taxes, do not grow with the economy or inflation;

And whereas unprecedented population and housing growth will require significant investments in municipal infrastructure;

And whereas municipalities are being asked to take on complex health and social challenges, like homelessness, supporting asylum seekers, and addressing the mental health and addictions crises;

And whereas inflation, rising interest rates, and provincial policy decisions are sharply constraining municipal fiscal capacity;

And whereas property taxpayers, including people on fixed incomes and small businesses, cannot afford to subsidize income re-distribution programs for those most in need;

And whereas the province can, and should, invest more in the prosperity of communities;

And whereas municipalities and the provincial government have a strong history of collaboration.

Be it resolved that the Province of Ontario commit to undertaking with the Association of Municipalities of Ontario a comprehensive social and economic prosperity review to promote the stability and sustainability of municipal finances across Ontario.

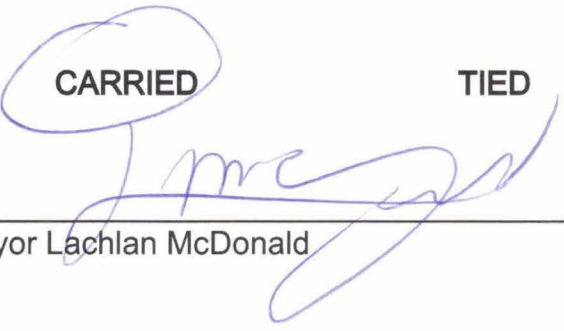
Be it further resolved that a copy of this Resolution be circulated to all the municipalities in Ontario.

CARRIED

TIED

DEFEATED

POSTPONED



Mayor Lachlan McDonald



Hon. Ted Arnott, MPP
181 St. Andrew St. East
2nd Floor, Fergus
ON N1M 1P9
VIA EMAIL:
ted.arnottco@pc.ola.org

Hon. Sylvia Jones, MPP
180 Broadway 3rd Floor
Suite A
Orangeville, ON L9W 1K3
VIA EMAIL:
sylvia.jones@pc.ola.org

Township of Puslinch
7404 Wellington Road 34
Puslinch, ON N0B 2J0
www.puslinch.ca

February 27, 2024

Hon. Doug Ford
Premier of Ontario
823 Albion Road
Etobicoke, ON
M9V 1A3
VIA EMAIL:
premier@ontario.ca

Hon. Paul Calandra
Minister of Municipal Affairs
and Housing
VIA EMAIL:
minister.mah@ontario.ca

RE: 6.3 The Association of Municipalities of Ontario Policy Update regarding Social and Economic Prosperity Review

Please be advised that Township of Puslinch Council, at its meeting held on February 7, 2024 considered the aforementioned topic and subsequent to discussion, the following was resolved:

Resolution No. 2024-037: Moved by Councillor Bailey and
Seconded by Councillor Sepulis

That the Consent Agenda item 6.3 listed for February 7, 2024 Council meeting be received for information; and

WHEREAS current provincial-municipal fiscal arrangements are undermining Ontario's economic prosperity and quality of life; and

WHEREAS nearly a third of municipal spending in Ontario is for services in areas of provincial responsibility and expenditures are outpacing provincial contributions by nearly \$4 billion a year; and



WHEREAS municipal revenues, such as property taxes, do not grow with the economy or inflation; and

WHEREAS unprecedented population and housing growth will require significant investments in municipal infrastructure; and

WHEREAS municipalities are being asked to take on complex health and social challenges – like homelessness, supporting asylum seekers and addressing the mental health and addictions crises; and

WHEREAS inflation, rising interest rates, and provincial policy decisions are sharply constraining municipal fiscal capacity; and

WHEREAS property taxpayers – including people on fixed incomes and small businesses – can't afford to subsidize income re-distribution programs for those most in need; and

WHEREAS the province can, and should, invest more in the prosperity of communities; and

WHEREAS municipalities and the provincial government have a strong history of collaboration; and

THEREFORE, BE IT RESOLVED THAT the Province of Ontario commit to undertaking with the Association of Municipalities of Ontario a comprehensive social and economic prosperity review to promote the stability and sustainability of municipal finances across Ontario; and further

THAT a copy of this motion be sent to the Premier of Ontario (premier@ontario.ca); Minister of Municipal Affairs and Housing (minister.mah@ontario.ca); the Minister of Finance (minister.fin@ontario.ca); the County Clerk, MPP Arnott, MPP Rae, and to the Association of Municipalities of Ontario (amo@amo.on.ca).

CARRIED

As per the above resolution, please accept a copy of this correspondence for your information and consideration.



Sincerely,

Justine Brotherston
Municipal Clerk

CC: Association of Municipalities of Ontario (amo@amo.on.ca), MPP Matthew Rae
Matthew.Rae@pc.ola.org, the Minister of Finance (minister.fin@ontario.ca)

Corporate Services

January 26, 2024

Re: Social and Economic Prosperity Review

Please be advised that the Council of the Corporation of the Town of Orangeville, at its Regular Council Meeting held on January 22, 2024, approved the following resolution:

WHEREAS current provincial-municipal fiscal arrangements are undermining Ontario's economic prosperity and quality of life; and

WHEREAS nearly a third of municipal spending in Ontario is for services in areas of provincial responsibility and expenditures are outpacing provincial contributions by nearly \$4 billion a year; and

WHEREAS municipal revenues, such as property taxes, do not grow with the economy or inflation; and

WHEREAS unprecedented population and housing growth will require significant investments in municipal infrastructure; and

WHEREAS municipalities are being asked to take on complex health and social challenges – like homelessness, supporting asylum seekers and addressing the mental health and addictions crises; and

WHEREAS inflation, rising interest rates, and provincial policy decisions are sharply constraining municipal fiscal capacity; and

WHEREAS property taxpayers – including people on fixed incomes and small businesses – can't afford to subsidize income redistribution programs for those most in need; and

WHEREAS the province can, and should, invest more in the prosperity of communities; and


WHEREAS municipalities and the provincial government have a strong history of collaboration; now

THEREFORE, BE IT RESOLVED THAT the Town of Orangeville requests the Province of Ontario commit to undertaking with the Association of Municipalities of Ontario a comprehensive social and economic prosperity review to promote the stability and sustainability of municipal finances across Ontario; and


FURTHER THAT a copy of this motion is sent to the Premier of Ontario, Doug Ford; the MPP, Sylvia Jones; and all municipalities in Ontario.

Carried.

Yours truly,



Raylene Martell
Town Clerk

 Corporate Services Department Legislative Services Division	
Date & Time Received:	March 20, 2024 3:00 pm
Original To:	CIP
Copies To:	
Take Appropriate Action	<input type="checkbox"/> File <input type="checkbox"/>
Notes/Comments:	

March 20, 2024

Hon. Paul Calandra
 Minister of Municipal Affairs and Housing
 Sent by email to: Paul.Calandra@pc.ola.org

Re: Operational Budget Funding

At its regular meeting of Council held on March 19, 2024, the Council of the Municipality of Powassan passed the following resolution:

Resolution #: 2024-93

Moved by: M. Wand **Seconded by:** R. Hall

That the council of the Municipality of Powassan supports the request of the Township of Amaranth calling upon the Province of Ontario to treat all municipalities fairly and provide equivalent representative operational budget funding amounts to all Ontario municipalities.

If you have any questions regarding the above, please feel free to contact me.

Sincerely,



Allison Quinn
 Clerk
 Municipality of Powassan

Cc: Premier of Ontario; AMO; Ontario Municipalities



374028 6TH LINE • AMARANTH ON • L9W 0M6

March 12, 2024

Hon. Paul Calandra
Minister of Municipal Affairs and Housing

Sent by email to: Paul.Calandra@pc.ola.org

Re: Operational Budget Funding

At its regular meeting of Council held on March 6, 2024, the Township of Amaranth Council passed the following resolution.

Resolution #: 4

Moved by: G Little

Seconded by: A. Stirk

Whereas all Ontario municipalities are prohibited from running budget deficits for operating purposes, and;

Whereas all Ontario municipalities have similar pressures with respect to aging infrastructure and operating costs for policing, and;

Whereas the City of Toronto has recently received Provincial funding to cover a \$1.2 billion dollar operating shortfall and approximately \$12 million in Federal and Provincial funding for their Police operating budget, and;

Whereas the City of Toronto has the lowest tax rates in the Province, approximately 40% less than the average Dufferin rural municipal tax rate.

Be it Resolved That the Township of Amaranth call on the Province of Ontario to treat all municipalities fairly and provide equivalent representative operational budget funding amounts to all Ontario municipalities.

CARRIED

Please do not hesitate to contact the office if you require any further information on this matter.

Yours truly,

Nicole Martin, Dipl. M.A.

CAO/Clerk

C: Premier of Ontario; AMO; Ontario Municipalities