



Energy from Waste-Waste Management Advisory Committee Agenda

Tuesday, May 27, 2025

7:00 PM

Microsoft Teams Meeting

Please note: The Region of Durham continues to hold electronic meetings for Advisory Committees with limited in-person attendance at this time. Members of the public may view the [Committee meeting via live stream](#). If you wish to register as a delegate regarding an agenda item, you may submit a [delegation request form](#) in advance of the meeting by noon on the day prior to the meeting and you will be provided with the details to delegate electronically.

1. Roll Call

2. Declarations of Interest

3. Adoption of Minutes

A) Of the EFW-WMAC meeting held on March 25, 2025

Pages 3 to 7

4. Elections

A) Chair

B) Vice Chair

5. Presentations

A) Overview of DYEC Monitoring Program (presented by Lipika Saha, Manager, Waste Management Services)

Pages 8 to 14

6. Delegations

There are no delegations.

7. Correspondence

There are no items of correspondence.

8. Administrative Matters

A) EFW-WMAC Work Plan (2025-2026) – Working Group Establishment

9. Other Business

A) DYEC Reporting/Updates.

B) Community and Upcoming Events

C) Operations Update (automated carts/ MR organics rollout).

10. Date of Next Meeting

Tuesday, September 23, 2025

11. Adjournment

The Regional Municipality of Durham

Minutes

Energy From Waste – Waste Management Advisory Committee

Tuesday, March 25, 2025

A meeting of the Energy from Waste – Waste Management Advisory Committee was held on Tuesday, March 25, 2025 in Council Chambers, Regional Headquarters, 605 Rossland Road East, Whitby, at 7:04 PM. Electronic participation was permitted for this meeting.

1. Roll Call

Present: G. Baswick, Clarington
M. Brennan, Oshawa
M. Hewitt, Oshawa
A. Mohan, Pickering
P. Panchal, Clarington
G. Rowden, Clarington
D. Spaeth, Clarington

***all members of the Committee participated electronically**

Absent: R. Fleming, Pickering
G. Gordon, Whitby

Non-Voting Members

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

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

Staff

Present: S. Ciani, Committee Clerk, Corporate Services – Legislative Services
R. Inacio, Systems Support Specialist – Information Technology
N. Williams, Project Manager

***all staff members participated electronically**

2. Welcome and Introductions

A. Evans, Director of Waste Management Services, welcomed the new and returning committee members who were then given the opportunity to provide some of their background and their interest in the EFW-WMAC.

3. Declarations of Pecuniary Interest

There were no declarations of pecuniary interest.

4. Elections

Moved by P. Panchal, Seconded by G. Baswick,
That the Election of the Chair and Vice-Chair be deferred until the
May 27, 2025, Energy from Waste – Waste Management Advisory
Committee (EFW-WMAC).

CARRIED

5. Adoption of Minutes

Moved by G. Rowden, Seconded by A. Mohan,
That the minutes of the EFW-WMAC meeting held on Tuesday,
November 26, 2024, be adopted.

CARRIED

6. Announcements

There were no announcements made.

7. Presentations

- A) Presentation by Andrew Evans, Director, Waste Management Services, and Lipika Saha, Manager, Waste Services, the Regional Municipality of Durham, regarding Waste Management Services Programs and Initiatives

Andrew Evans, Director, Waste Management Services, and Lipika Saha, Manager, Waste Services provided a PowerPoint presentation regarding the Waste Management Services Programs and Initiatives.

Highlights from the presentation included:

- Who Does What
- Who Receives Waste Management Services
- Integrated Waste management System
- Waste Disposal with Energy Recovery
- Waste Management Hierarchy
- Rethink, Reduce and Reuse Initiatives

- Rethink and Reduce Initiatives
- Source Separated Organics Management
- Source Separated Organics Trend
- Garbage Generation Trend
- Blue Box Recycling
- Automated Cart Collection
- Automated Cart Collection Pilot
- Durham York Energy Centre (DYEC)
- DYEC Quick Facts
- The Energy from Waste (EFW) Process
- DYEC Waste Receiving
- DYEC Waste Processing
- DYEC Environmental Monitoring Program
- Emissions Performance
- DYEC Ambient Air Monitoring Stations
- Dr. Adams Ambient Air Study
- Long-Term Waste Management Plan 2022-2040
- Waste Plan Objectives
- Conclusion

A. Evans responded to questions from the Committee regarding the location of the organics processing and biogas facility; whether there will be a multi-residential program in the Region of Durham (excluding the Town of Whitby and the City of Oshawa); where the excess waste goes once the limit has been reached at the DYEC; whether tipping fees for waste disposal have increased; and whether the DYEC has seen an increase in plastics that cannot be recycled since the introduction of the Extended Producer Responsibility (EPR) program.

8. Delegations

There were no delegations to be heard.

9. Correspondence

There were no correspondence items to be considered.

10. Administrative Matters

A) EFW-WMAC Work Plan (2025-2026)

Discussion ensued regarding how the multi-residential units can be targeted with respect to ensuring that residents are sorting the waste and recycling materials correctly; how to ensure that all residents in the Region are receiving any communication items sent out by Regional staff; and how subscribers to the various waste apps can be increased.

Moved by A. Mohan, Seconded by G. Rowden,
That we recommend to the Works Committee for approval and
subsequent recommendation to Regional Council:

That the proposed 2025-2026 EFW-WMAC Work Plan be amended as
follows, and as amended, be approved:

Under the heading of Section 5.3 a), add a new part iv) as follows, “Research
opportunities for renewed communication strategies”.

CARRIED

B) Proposed 2025 Meeting Schedule

Moved by M. Brennan, Seconded by S. Spaeth,
That the following proposed 2025 EFW-WMAC meeting dates be
approved:

- May 27, 2025;
- September 23, 2025; and
- November 25, 2025.

CARRIED

11. Other Business

A) Update by Lipika Saha, Manager, Waste Services, the Regional Municipality of
Durham, regarding 2025 Community and Outreach Activities

L. Saha highlighted a number of special events occurring in the Region of
Durham for 2025 including the Compost Giveaway Days occurring in April
and May, and the Environment Days occurring in April, August, September,
and October.

L. Saha advised that volunteers from the Committee would be encouraged at
any of these waste management events.

L. Saha responded to a question from the Committee regarding whether any
special events were being arranged for residents to drop off various textile
materials.

B) Tour of the Durham York Energy Centre (DYEC)

The Committee expressed their interest in touring the Durham York Energy
Centre (DYEC). Staff advised that a tour could be arranged for a future date.

12. Next Meeting

The next regularly scheduled meeting of the EFW-WMAC will be held on Thursday, May 27, 2025 in Council Chambers, at 7:00 PM, Regional Headquarters, 605 Rossland Road East, Whitby.

13. Adjournment

Moved by A. Mohan, Seconded by P. Panchal,
That the meeting be adjourned.

CARRIED

The meeting adjourned at 8:46 PM.

A. Evans, Director, Waste Management Services

S. Ciani, Committee Clerk

DYEC Environmental Monitoring Plans

Presented to
Energy From Waste — Waste Management
Advisory Committee

Presented by
Lipika Saha

DYEC Environmental Monitoring Plans



The DYEC operates in accordance with a strict environmental monitoring program.



These Environmental Monitoring Programs include:

Internal Monitoring

External Monitoring

Internal Monitoring Programs

- **Continuous Emission Monitoring**
 - Real-time continuous emissions can be viewed on the DYEC website www.durhamyorkwaste.ca and at the DYEC Visitor's Centre
- **Stack (source) testing**
 - Compliance and Voluntary test
 - 1 Performed by a third-party testing company
 - Test samples are sent to accredited laboratories
 - Reported to the MECP after each test
- **AMESA (Adsorption Method for Sampling of Dioxins and Furans)**
 - Used to determine emission trends
 - Performed by accredited laboratory
 - Reported to the MECP in the Annual Report and to Regional Council quarterly and posted to the DYEC website

Pollutant	Units	European Union	Ontario A-7	DYEC ECA
Particulate Matter (PM)	mg/Rm3	9	14	9
Opacity		N/A	10% 5%	10% 5%
Cadmium	ug/Rm3	Not specified	7	7
Lead	ug/Rm3	Not specified	60	50
Mercury (Hg)	ug/Rm3	46	20	15
Dioxins & furans	pg/Rm3	92	80	60
Hydrochloric acid (HCl)	mg/Rm3	9	27	9
Sulphur dioxide (SOx)	mg/Rm3	46	56	35
Nitrogen dioxide (Nox)	mg/Rm3	183	198	121
Organic Matter (methane)	mg/Rm3	N/A	33	33
Carbon Monoxide (CO)	mg/Rm3	46	40	40

Air Emission Limits (source)

The DYEC's advanced pollution control systems, coupled with the site's Air Emissions Monitoring Plan, effectively control the facility's air emissions.

DYEC Environmental Compliance Approval (ECA) limits are more stringent than seven performance limits and meet the remaining four performance limits.



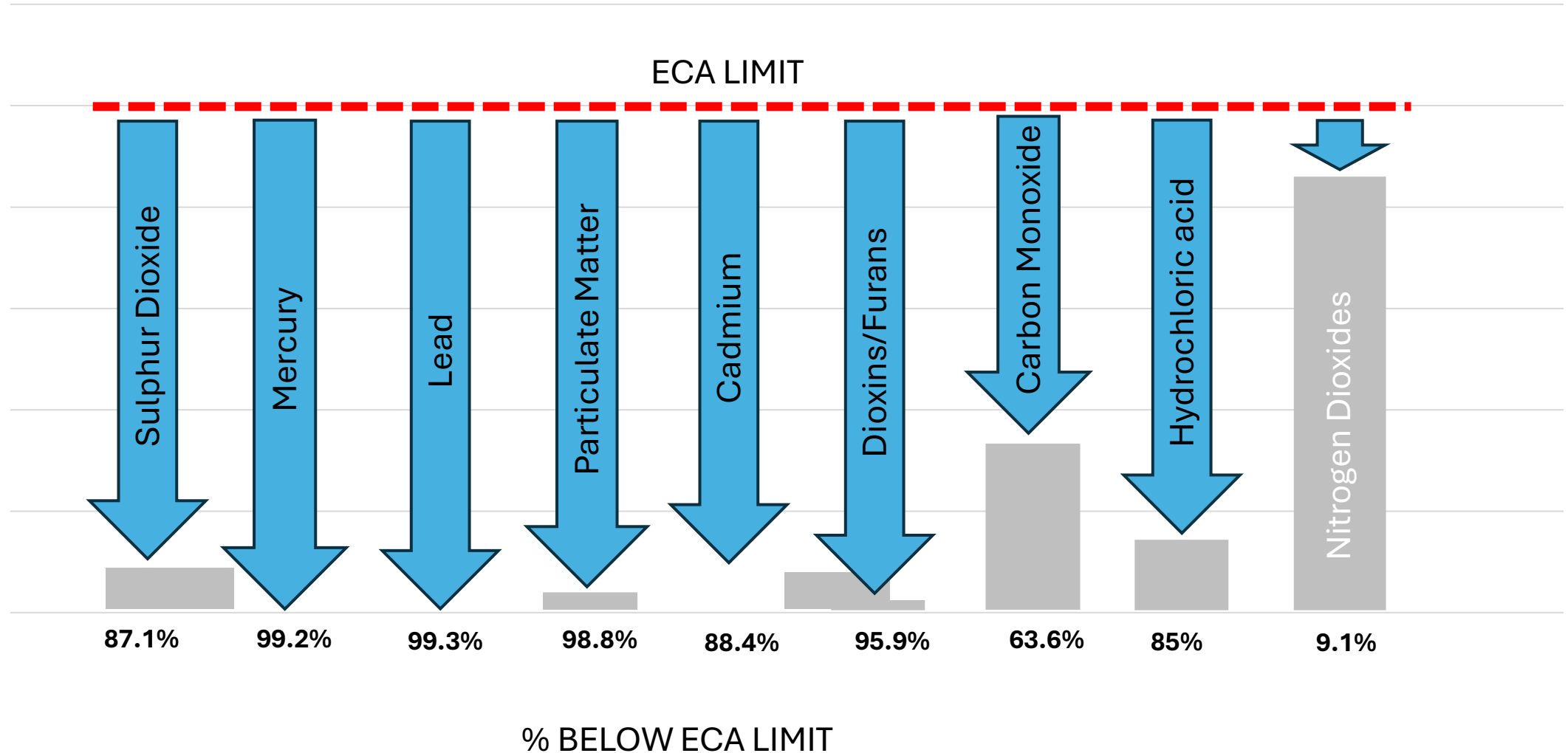
Emissions Performance

Voluntary 2024 Stack Test Results (Dec 2024)

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

Emissions Performance

Voluntary 2024 Stack Test Results (Dec 2024)



External Monitoring Programs



Groundwater

- 1 sampling event in the fall annually
- Reported in an annual report to the MECP

Surface Water

- 2 surface water stations in Tooley Creek (upstream and downstream locations)
- Reported in an annual report to the MECP

Ambient Air

- 2 monitoring stations (Upwind-Courtice and Downwind-Rundle Road)
- Reported quarterly and summarized annually to the MECP

Odour Monitoring

- Daily walk/inspections
- Area drive if needed
- Reported to the MECP annually

Noise Monitoring

- With facility process change and added equipment

Soil Monitoring

- 2 monitoring stations located beside the ambient air stations
- Every three years
- Reported to the MECP every 3 years.

Third-Party Audit

- Third-party consultant reviews all the annual documentation for compliance with the ECA and other regulatory requirements.
- Reported to the MECP annually after each audit.