



## **Third Party Independent Audit Durham York Energy Centre Facility Operations Phase Audit - 2022**

Prepared for:

**Durham York Energy Centre**  
**Region of Durham**  
1835 Energy Drive  
Courtice, ON L1E 2R2

Prepared by:

**BluMetric Environmental Inc.**  
825 Milner Avenue  
Toronto, ON M1B 3C3

Project Number: 210281  
April 28, 2023

**Third Party Independent Audit  
Durham York Energy Centre Facility  
Operations Phase Audit - 2022**

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## Executive Summary

BluMetric Environmental Inc. (BluMetric®) was retained by the Regional Municipality of Durham to complete the annual, third party, independent audit of the Durham York Energy Centre (DYEC) Facility Operations for a three-year period commencing in 2021 (operating year 2020) and ending after the final report is submitted in 2023 (operating year 2022).

The audit of the 2022 operating year was conducted on April 4 and 5, 2023 to satisfy Condition 16 of the DYEC Environmental Assessment Notice of Approval, Condition 15(2) of the Environmental Compliance Approval (ECA) as well as applicable environmental regulatory criteria. ECA Notice No. 2 was issued on December 23, 2021, to permit the increase in the amount of waste received and treated at the facility from 140,000 tonnes to 142,000 tonnes per year until December 31, 2021. There were no ECA amendments for the 2022 operating year.

The audit was completed in accordance with CSA Z773 Environmental Compliance Auditing Standard, the Durham York Energy Centre Operations Phase Audit Plan, Revision 1. Auditing evidence was collected through documentation review, interviews, and a site tour of interior and exterior operations. Document review included the most recent version of each document generated between January 1 and December 31, 2022, including a review of recommendations from the previous year's third party independent audit.

For the 2022 operational year, DYEC operated in general accordance with environmental legislations and their Environmental Assessment conditions. There were two opportunities for improvement identified for the 2022 operational year. There was one outstanding non-compliance item and one opportunity for improvement remaining from previous operational year external audits.

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# 1. Introduction

The Durham York Energy Centre (DYEC) is a waste-to-energy facility located in Courtice, Ontario that processed 140,000 tonnes of municipal solid waste (MSW) in 2022 and generated approximately 117,792 MWh of electricity. BluMetric Environmental Inc. (BluMetric®) was retained by the Regional Municipality of Durham to complete an annual third party independent audit of the DYEC Facility Operations for a three-year period commencing in 2021 (2020 operating year) and ending after the final report is submitted in 2023 (2022 operating year).

## 1.1 Scope of Work

The audit of the 2022 operating year was conducted on April 4 and 5, 2022 to satisfy Condition 16 of the DYEC Environmental Assessment Notice of Approval, Condition 15(2) of the Environmental Compliance Approval (ECA, formerly known as Certificate of Approval), as well as applicable environmental regulatory criteria as listed in Attachment #1 – DYEC Third Party Audit Legislative Review included with the Request for Proposal (RFP) documentation.

ECA Notice No. 2 was issued on December 23, 2021, to permit the increase in the amount of waste received and treated at the facility from 140,000 tonnes to 142,000 tonnes per year until December 31, 2021. There were no ECA amendments for the 2022 operating year.

The temporal scope of the audit was between January 1 and December 31, 2022, related to the following:

1. Confirmation that the operations at the Site are undertaken in accordance with the requirements of the Environmental Assessment Approval, Environmental Compliance Approval, and regulatory requirements.
2. A review of the monitoring and testing results required by the ECA.
3. A review of any complaints received about the operation of the Facility.
4. A review of recommendations for improving the operation of the Facility received from the Advisory Committee.
5. A review of all operations used in connection with the undertaking.

6. A detailed review of all records required to be kept by the EA Notice of Approval or under any other ministry approvals for the undertaking.
7. Recommendations for any improvements to ensure that facility operations are compliant and protective of human health and safety and the environment.
8. Observations made during the walkthrough of the site.

The limitations of this study are presented in **Appendix A**.

## 2. Audit Methodology

The audit was completed in accordance with CSA Z773 Environmental Compliance Auditing Standard and the Durham York Energy Centre Operations Phase Audit Plan, Revision 1. The third party audit was executed by BluMetric in three phases as follows:

- Phase I: Audit Plan and Document Review
- Phase II: On-Site and Remote Audit
- Phase III: Audit Reporting

### 2.1 Phase I: Audit Plan and Document Review

An Audit Plan was prepared by BluMetric and approved on March 24, 2023. The plan briefly described the audit objectives, scope and criteria, audit approach and methodology (site tour, site visit, interviews, etc.), presented the schedule and timetable, audit activities and documents to be reviewed on-site. The Audit Plan is presented in **Appendix B**.

Prior to the on-site audit, the BluMetric auditors reviewed available documentation to verify the scope of the audit, began to populate the audit checklists, and created site specific audit questions. Documentation was available from the [DYEC Website](#) and consisted of the most recent version of approvals, agreements, annual environmental monitoring reports, facility operations reports and facility management plans. A complete list of documents reviewed is provided in **Appendix C**. The 2021 Operations Independent Third Party Audit Report was reviewed and the status of the recommendations from this report were noted as audit questions.

## **2.2 Phase II: On-Site Examination**

The on-site examination was conducted on April 4 and 5, 2023 by BluMetric auditor Philippa McPhee, B. Sc. (Auditor) and Jessica Petrocco M. Eng., P. Eng., EP (CEA) (Lead Auditor – participated virtually). Ian Macdonald, M.Sc., P. Geo., EP (CEA) (Senior Review) provided senior review of pre/post audit activities and report preparation. The on-site audit consisted of the following major steps.

### **2.2.1 Opening Meeting**

As per the schedule of the Audit Plan, the opening meeting commenced at 9:00 am on April 4, 2023. The purpose of the opening meeting was to introduce the audit team and site representatives, summarize the objectives, scope, and criteria of the audit, outline the audit protocols, review health and safety protocols and review the audit schedule and facility operations. The following stakeholders attended the Opening Meeting:

- Lyndsay Waller, Operations Technician, Regional Municipality of Durham
- Lipika Saha, DYEC Project Manager, Regional Municipality of Durham
- Andrew Evans, Manager, Regional Municipality of Durham (virtual)
- Muneeb Farid, Environmental Services Engineer, Regional Municipality of York (virtual)
- Lydia Kwan, Environmental Specialist, Covanta
- Ben Parayankuzhiyil, Facility Manager, Covanta
- Philippa McPhee, External Auditor, BluMetric Environmental Inc.
- Jessica Petrocco, External Lead Auditor, BluMetric Environmental Inc. (virtual)

### **2.2.2 Inspection of Facility**

With support from the DYEC audit team, the on-site BluMetric auditor toured all exterior areas, including the east and west ponds, scale house, residue storage building, entrance to the tipping floor and all storage vessels of the DYEC facility in the morning of April 4, 2023. The weather was noted to be approximately 10°C and overcast. The interior of the DYEC facility including the tipping floor, Grizzly Building, Compressor Alley, Control Room and Maintenance Shop, were visited by the BluMetric auditor in the afternoon of April 4, 2023. The electrical building, fire water pump house, and CEMS building interiors were omitted from on-site examination.

The tour included inspection and documentation of facility operations, environmental controls and mitigation measures in place and interviews with DYEC operations staff. Interviews were brief and focused on aspects that are relevant to the job or position of the interviewee.

### **2.2.3 Collection and Review of Documents and Records**

An in-depth review of documents and records was completed to confirm that all site activities complied with legislative requirements and conditions of approvals and permits including the commitments made in the EA report. Additional documents reviewed on-site are included in **Appendix C**.

### **2.2.4 Closing Meeting**

BluMetric verbally presented audit findings to the DYEC stakeholders at the Closing Meeting on April 5, 2023. BluMetric solicited input from the DYEC audit team, providing BluMetric with an opportunity to receive feedback and undertake further verification if necessary. The following stakeholders were present at the closing meeting:

- Lyndsay Waller, Operations Technician, Regional Municipality of Durham
- Robyn McCormick, Works Technician, Regional Municipality of Durham
- Lipika Saha, DYEC Project Manager, Regional Municipality of Durham
- Andrew Evans, Manager, Regional Municipality of Durham (virtual)
- Muneeb Farid, Environmental Services Engineer, Regional Municipality of York (virtual)
- Lydia Kwan, Environmental Specialist, Covanta
- Ben Parayankuzhiyil, Facility Manager, Covanta
- Philippa McPhee, External Auditor, BluMetric Environmental Inc.
- Jessica Petrocco, External Lead Auditor, BluMetric Environmental Inc. (virtual)

## **2.3 Phase III: Audit Reporting**

This report has been prepared in accordance with the Durham York Energy Centre Operations Phase Audit Plan, Revision 1 and presents the audit observations, conclusions, and recommendations with respect to the 2022 operations of the DYEC. All review findings have been supported by evidence collected during the course of the audit. Observations made by the auditors are summarized in the ECA and EA checklists



included in **Appendix D** as well as the DYEC Third Party Audit Legislative Review Table included in **Appendix E**.

## **3. Findings and Recommendations**

### **3.1 Previous Audit Findings**

The Independent Third Party Audit for the 2021 Operational Year was completed by BluMetric. Each year, previous audit findings are considered as potential risk areas and are therefore re-visited to assess status. The findings presented in the Audit Report dated April 28, 2022, are listed in Table 1 below with the current compliance status.

**Table 1: Previous Audit Findings**

Audit Year	Finding	2022 Audit Status
2016	<p><i>Non-Compliance</i>                      ECA 8(15) – requires visual screening in accordance with documentation in “Schedule A”. Although the visual screening is in place, sign off for landscaping remains outstanding from the Municipality of Clarington because some of the trees have not remained viable for the minimum required time period.</p> <p>2021: Facility personnel stated that this item is still an outstanding item.</p>	<p>The Climate Change Office of the Region of Durham is working with the Trees for Life initiative to plant trees at the site including the east boundary.</p> <p><b>This finding remains open.</b></p>
2020	<p><i>Opportunity for Improvement (OFI)</i>                      Some litter was around the east pond and along the site access roads.</p> <p>Remove litter so that it does not reach the property boundaries and fences and become a noncompliance.</p> <p><b>2021: OFI 2021 (ECA Condition 8(12))</b>                      As is common for this time or year, following snow melt and before the summer landscaping begins, there is some minor litter observed around the site. In particular, there were lots of cigarette butts on the ground around the cigarette canister in the parking lot.</p>	<p>Very little litter (3 pieces) were observed around the facility in 2022.</p> <p><b>This finding is closed.</b></p>

Audit Year	Finding	2022 Audit Status
2020	<p><i>Non-Compliance</i>  The carrier driver signed Part A generator/consignor of waste manifest YH93448-7, January 7, 2020.</p> <p>Action was taken to notify the carrier company.</p> <p>Investigation into the occurrence should be conducted to verify if adequate controls are in place to ensure that the correct personnel from Covanta sign the manifest.</p> <p>2021: Covanta followed up with the Carrier via email to correct the issue. Covanta identified that controls were in place.</p> <p><b>2021 Non-Compliance  (O. Reg. 347, Section 19)</b>  The same driver as last year signed part A generator, consignor of waste manifest MX342361 dated June 14, 2021. Covanta followed up with the Carrier via email, on June 29, 2021, to address the recurring action. Following the email correspondence, the driver had reached out to the designated Covanta personnel to have a manifest signed.</p>	<p>All manifests reviewed were signed by Covanta personnel.</p> <p><b>This finding is closed.</b></p>

Audit Year	Finding	2022 Audit Status
2021	<p><i>Non-Compliance</i> Two smaller cylinders were not secured in the cage located outside of the CEMS Building and in the cage near the incline conveyor. The cylinder outside of the CEMS Building was visibly moving in the wind. Propane tanks were observed stacked on top of each other and unsecured in the storage cage near the conveyor.</p> <p>Several regular cylinders were observed without their safety cap in place although they were marked as empty.</p> <p>Two cylinders on a cart in the Maintenance Shop were not connected to the welder but the safety caps were not on.</p> <p>Ensure that cylinder tanks are secured with a chain at approximately 2/3 from the bottom and with the safety cap on when not in use.</p>	<p>All cylinders were in or beside cages or on carts and cages.</p> <p><b>This finding is closed.</b></p>
2021	<p><i>Non-Compliance</i> The Site sign located beside the visitor parking lot is partially obscured by plant growth. Plants need to be cut back so that the information posted on the sign can be visible from the road.</p> <p>Consider a corrective action that would prevent this from recurring each year (e.g., increase the height of the sign).</p>	<p>All signs were visible.</p> <p><b>This finding is closed.</b></p>

Audit Year	Finding	2022 Audit Status
2021	<p><i>OFI</i></p> <p>The secondary containment capacity in the gas and diesel storage cage was reduced with rainwater. The secondary containment capacity may have been exceeded. There were 4 x 25 L jerry cans on one side.</p> <p>The secondary containment under the hydraulic fluid drums in the water treatment area was slightly reduced with oily water.</p> <p>Ensure that secondary containment is drained regularly so that its capacity is not reduced. The Rule of thumb for containment capacity is 100% of the volume of the largest container plus the greater of 10% of the volume of the largest container or 10% of the aggregate volume of all remaining containers, whichever is greater.</p> <p>Ensure that secondary containment is free of any product so that there is no accumulation of flammable or other hazardous material.</p>	<p>All secondary containment areas (ammonia, diesel tank, water treatment area) were empty.</p> <p><b>This finding is closed.</b></p>

Audit Year	Finding	2022 Audit Status
2021	<p><i>OFI</i></p> <p>In an emergency situation, where a Frac Tank is not available, water from the Settling Basin is occasionally pumped into the secondary containment of the ammonia tank when the Settling Basin is close to capacity.</p> <p>If this option is used again in the future, ensure that the secondary containment capacity of the ammonia tank is not reduced below the current volume of ammonia in the tank during this process and ensure that the pre-assessment of available capacity and the volume of ammonia in the tank is documented.</p>	<p>In response to the finding from the 2021 report, the Operations Manager/Chief Operating Engineer sent an email to staff on April 28, 2022, indicating that containment areas will no longer be used for temporary or emergency storage of water from the settling basin (or otherwise). The email clearly stated that if the practice was deemed necessary, that it would require their approval.</p> <p><b>This finding is closed.</b></p>
2021	<p><i>OFI</i></p> <p>There is no documented procedure for filling Jerry Cans on-site or for filling equipment from Jerry Cans (e.g., heaters in Residue Building).</p> <p>Covanta JSA Form DYEC-JSA-019 Refueling the Loader states that a drip pan should be placed under the fill area while fueling.</p> <p>Covanta DYEC-ENV-015 Receiving Diesel Fuel is a procedure for the delivery and transfer of diesel fuel to the fire water pumps, the emergency diesel generator and the diesel fuel tank.</p> <p>Ensure that preventative spill control measures are in place for filling and use of Jerry Cans (e.g., drip pan, adequate training).</p>	<p>This has been integrated into annual spills training. Some form of drip containment is adopted (e.g., bucket, spill pad on clip board) when transferring.</p> <p><b>This finding is closed.</b></p>

Audit Year	Finding	2022 Audit Status
2021	<p><i>OFI</i></p> <p>There were several instances of faded precautionary labels:</p> <ul style="list-style-type: none"> <li>- 'Pull Firmly' sticker on the fire extinguisher (EX) box near the CEMS building</li> </ul> <p>There are older faded and peeling hazard and precautionary labels on the Diesel storage tank. Labels have been replaced.</p> <p>Ensure that older labels are removed.</p> <p>Consider replacing the 'Pull Firmly' sticker on the fire extinguisher (EX) box near the CEMS building or repair the box so it is easier to open (possibly tight due to weather seal).</p>	<p>Diesel tank labels had been updated and other labels on cylinder storage cages were new and clear.</p> <p><b>This finding is closed.</b></p>
2021	<p><i>OFI</i></p> <p>All fire extinguishers are inventoried (EX) and most were labelled. This is a good practice.</p> <p>Several fire extinguishers in the Maintenance Shop were not tagged and not secured. Unsecured units were noted on the November 26, 2021, Environmental Weekly Checklist.</p> <p>The fire extinguisher in the box outside the CEMS building was not labelled.</p>	<p>Fire extinguishers (FEX) and Fire Hoses examined were all inspected in 2022. It was noted that the tags were replaced early in May 2022, as indicated by annual inspection tags, so January to April were crossed out.</p> <p>Two loose FEX were observed in the Maintenance Shop; one un-numbered beside the flammable cabinet and FEX-112 near the workbench. Both had been inspected through 2022.</p> <p>Ensure that fire extinguishers are mounted so that they are visible and accessible at all times (NFPA 10 s. 6.1.3.4).</p>

Audit Year	Finding	2022 Audit Status
	<p>Several fire extinguishers inspected were missing monthly inspection sign-offs (initials) on the tags (e.g., EX-72 in June, East door of Maintenance Shop in October, Unit outside CEMS in July); however, the monthly inspection record forms showed that these were actually completed.</p> <p>There were several units that do not appear to have been inspected per the Monthly Inspection Checklist (EX109, EX-122, Replacement 5 &amp; 10 in February, EX-77 in March, EX-116 and Replacement 14 in May, EX-CO-004, EX-23, EX-122 and several replacements in September, EX-CO-004, EX-23, EX-112, EX-113 and several replacements in November, EX-CO-004, EX-23, EX-112, EX-113 and several Replacements in December).</p> <p>The annual inspections were completed in June 2021.</p> <p>Ensure that all inspections are completed and documented on both the extinguisher unit tag and the monthly inspection form. Ensure that rationale is documented if units are missed.</p>	<p>Ensure that fire extinguishers are installed so that the top of the extinguisher is not more than 1.1 m above the floor (&gt;18 Kg) or so that the top of the extinguisher is not more than 1.5 m above the floor (&lt; 18 Kg) (O. Reg. 213/07: Fire Code s. 6.2.4.2 and 6.2.4.3). The status of FEX should be added to a workplace inspection list.</p> <p><b>Remains as an OFI</b></p>
2021	<p><i>OFI</i></p> <p>Several weekly eyewash station inspections were missing, particularly in February, March, April, September, October, and November.</p> <p>Ensure that monthly eyewash station inspections are completed.</p>	<p>February and October 2022 inspections were reviewed and were completed. The inspection records are documented on a separate form; the units are not tagged.</p> <p><b>The finding is closed.</b></p>



Audit Year	Finding	2022 Audit Status
2021	<p><i>OFI</i></p> <p>There were three drills documented in March, June, and December 2021. The drill in September was reportedly conducted on September 21, 2021, but the drill record was not completed.</p> <p>The first drill indicated that the evacuation head count took 30 minutes, but the 'Speed of Evacuation' was marked as N/A in the Evaluation of Drill section. This drill was conducted on a Saturday with a skeleton crew. The evacuation time was not valid as the drill was conducted and participated by the same workers.</p> <p>Consider adding some quantitative targets for the Speed of Evacuation and other evaluation criteria.</p> <p>Ensure that drills are conducted quarterly and documented per the Emergency Action Plan (EAP).</p>	<p>Four drills were completed in 2022 and all records were completed in full and signed.</p> <p><b>This finding is closed.</b></p>

## 3.2 Positive Findings

Several specific positive findings were noted during the current audit as described below.

- Personnel throughout the facility were willing to help and provide answers to all questions asked; this demonstrates a supportive environment for environmental sustainability.
- The fill in operator at the scale house knew where to find the contractor sign in and the SOP for hot loads.
- Covanta critical life safety initiative and stickers were visible around the site; while this is out of scope, any safety initiative is positive.
- Overall, inside the facility was generally tidy. While this does not directly impact environmental compliance, it does influence workplace culture and foster a positive work environment.

There were no new non-compliances identified during the 2022 audit. Opportunities for improvement are presented in Table 2 the following section.

### 3.3 Opportunities for Improvement

**Table 2: 2022 Findings – Opportunities for Improvement**

ID	Finding/Observation	Requirement	Recommendation
1	<p>One outdoor pest control unit located on the west side of the Scale House was noted to be broken and open.</p> <p>Note that the facility indicated that the pest control company was on-site the following day.</p>	Good practice	Broken containers containing chemicals should be fixed or removed to ensure contaminants are not released into the natural environment.
2	<p>Based on the June and December 2022 fire extinguishers inspection list, several fire extinguishers were not inspected (Boiler Room), several units were missing CO<sub>2</sub> and several units were missing. The Facilities Safety Coordinator reviews the monthly records and takes action as required. A deficiency Summary Report dated May 3, 2022, provided a summary of units out of service but it does not document the identification numbers of each one.</p>	Good practice	Consider documenting the status or action required for each deficiency noted on the monthly report itself. An example of this practice is shown on the June 2022 version (e.g., EX_96).

## 4. Audit Conclusions

During the audit, facility personnel were cooperative throughout the process and willing to answer questions and provide requested documentation in a timely manner. Personnel demonstrated an interest in developing and implementing corrective measures, which reflects the personnel's commitment and the site's culture with respect to environmental protection.

For the 2022 operating year, DYEC operated in general accordance with environmental legislations and their EA conditions. Of the findings identified in the previous audit report (2021 operational year), two findings remain open. These findings pertain to visual screenings and the installation of fire extinguishers. Additionally, there were two opportunities for improvement identified for the 2022 Operational Year Audit; these findings generally pertain to hazardous materials use and emergency management.

Respectfully submitted,  
**BluMetric Environmental Inc.**

Jessica Petrocco, M. Eng., P. Eng., EP (CEA)  
Auditor

Philippa McPhee, B.Sc.  
Auditor

Ian Macdonald, M. Sc., P. Geo., EP (CEA)  
Senior Auditor

# Appendix A

Limiting Conditions

The International Organization for Standardization (ISO) 19011: Guidelines for the audit of quality and / or environmental management systems, states that there is an element of uncertainty in any environmental audit because it is limited in time and requires limited resources. This results in audit evidence being based on a sampling of available information. In order to maintain a reasonable budget and conform to time restraints, audits are always based upon a sampling of processes, systems, operations, and documents. Not every single document, operation, system, process, or piece of information relating to environmental performance can be reviewed. The size of the sample selected by the auditors is appropriate to the size and scale of the operation and information available. Objective evidence collected by the auditor is based upon the sampling.

BluMetric Environmental Inc.'s (BluMetric™) use of audit protocols, recognized auditing practices and a team of qualified professionals is intended to minimize the risk of errors and omissions as a result of time and resource restraints allocated for the audit.

The results of this audit are based on document review, site visit and interviews with personnel of DYEC. The audit results cannot be considered as a guarantee that all potential non-compliances have been identified. BluMetric accepts no responsibility for the validity of the report for persons other than DYEC. Please note that this report does not constitute legal advice.

The text should be read as a whole, since sections taken out of context could be confusing. Should there be any discrepancies between the draft and the final version of this report, the most recent version shall prevail.

# Appendix B

Audit Plan

# Audit Plan

Name of Audit and Site	Date of Site Visit
Third Party Independent Audit of the Durham York Energy Centre Facility Operations BluMetric Project No. 210281	April 4 and 5, 2023
<b>BluMetric Audit Team and Certification/ Qualification</b>	
Ian Macdonald, M.Sc., P.Geo., EP (CEA), Senior Review p. 519.742.6685 x212 e. <a href="mailto:imac@blumetric.ca">imac@blumetric.ca</a> Philippa McPhee, B.Sc., Project Team Lead and Compliance Auditor p. 905.242.1244 e. <a href="mailto:pmcphee@blumetric.ca">pmcphee@blumetric.ca</a> Jessica Petrocco, M.Eng., P.Eng., EP(CEA), Senior Environmental Engineer and Lead Auditor p. 613.298.5046 e. <a href="mailto:jpetrocco@blumetric.ca">jpetrocco@blumetric.ca</a>	
<b>DYEC Audit Team</b>	
Lyndsay Waller – Operations Technician, Region of Durham Robyn McCormick – Works Technician, Region of Durham Lipika Saha – DYEC Project Manager, Region of Durham Muneeb Farid – Environmental Services Engineer, Regional Municipality of York Lydia Kwan – Environmental Specialist, Covanta Representative Ben Parayankuzhiyil – Covanta Representative	
<b>Audit Objectives</b>	
The objective of the project is to conduct the 2022 annual third party independent audit of the Durham York Energy Centre (DYEC) Facility Operations. The operations audit is being carried out to satisfy Condition 16 of the DYEC Environmental Assessment (EA) Notice of Approval and Condition 15(2) of the Environmental Compliance Approval (ECA). This is the third of a three-year audit contract with BluMetric Environmental Inc. (BluMetric).	
<b>Audit Scope and Criteria</b>	
The audit scope includes the entire DYEC facility and operations per the DYEC <i>Operations Phase Audit Plan, Revision 1, dated April 7, 2020</i> . The 2023 audit will include the 2022 reporting year (RY22) from January 1, 2022 to December 31, 2022.  The audit criteria will include the requirements of the site ECA and EA Notice as noted above and applicable environmental federal, provincial and municipal regulatory criteria.	





**Audit Approach and Methodology**

The audit will be completed in accordance with the CSA Z773 Environmental Compliance Auditing Standard. Where remote auditing is required, the following standards will be used:

- IAF MD 4:2018 (Issue 2) IAF Mandatory Document for the Use of Information and Communication Technology (ICT) for Auditing/Assessment Purposes
- IAF ID 12:2015 (Issue 1) Principles on Remote Assessment

BluMetric will execute a three-phase work plan to meet the scope of work and project deliverable deadlines.

**Phase I** – Audit plan and document review activities including: audit planning discussion; examination of background documentation; preparation and submission of the Audit Plan; review and update of the audit-specific checklist, planning interviews and updating the Health & Safety Plan.

**Phase II** - Examination through on-site audit & analysis. One BluMetric auditor will conduct the on-site examination while the other will conduct document review remotely and participate in meetings using MS Teams.

**Phase III** - Reporting including draft and final reports; debriefings.

**Audit Activities, Schedule & Deliverables**

Submission of Draft Audit Plan to DYEC	March 21, 2023
Preparation of HASP	March 31, 2023
Approval of Final Audit Plan	March 28, 2023
On-Site Audit (see details below)	April 4 & 5, 2023
Draft Report Submission to DYEC	April 21, 2023
Comments from DYEC	April 26, 2023
Final Report & Invoicing	April 28, 2023

<b>On-Site Audit - Day One</b>	<b>Time</b>
Opening Meeting: Introduction, validation of the objectives, confirmation of site safety requirements and audit activities of the day	09h00
Site Tour	09h30
Lunch	12h00
Site Tour, Interviews / Document Review	12h30
Interim closing meeting	16h15 to 16h30
<b>On-Site - Day Two</b>	<b>Time</b>
Opening Meeting: confirmation of the audit activities of the day.	09h00
Interviews / Document Review, Site Tour (return to any area as required)	09h30
Lunch	12h00
Interviews / Document Review, review of previous audit findings and related corrective actions	12h30
Auditor Preparation for Closing Meeting	15h30
Closing Meeting	16h00 to 16h30
<b>Roles and Responsibilities of Participants to the Audit</b>	
<b>Lead Auditor:</b> ensure that the audit team members conduct the examination phase according to the Audit Plan.	
<b>Auditors:</b> gather evidence, collect information, assess conformance status, and present the preliminary results.	
<b>Site Representative:</b> prepare the required documentation, ensure safe access to facilities, ensure the availability of resources such as staff availability for site tour.	

### Document Availability – During Audit

The following list of documents should be available for review during the audit, where applicable. Documentation will be uploaded to the DYEC OneDrive folder with access provided to BluMetric. Additional documentation may be requested as discovered.

- 2022 DYEC Facility Operations Annual Report (was not posted to the website as of March 21, 2023)
- Updates to as-built drawings
- Pest Control Status Reports for the months of January, April, July and October 2022
- Pesticide operator/exterminator licences
- Ambient Air Monitoring Correspondence
- Ambient Air Monitoring & Emission Testing Reports
- Compliance Obligations Table
- Consumables, Equipment and Spare Parts List
- Covanta Annual Sewage Inspection Report
- Covanta Annual Sewage Works Inspection Form
- Covanta CRO Logbook – can review on-site
- Covanta Diesel fuel Delivery Checklist
- Covanta Bottom Ash Sampling Records and laboratory results
- Covanta Fly Ash Sampling Records and laboratory results
- Covanta DYEC Customer/Material Report Jan 1, 2022 to Dec 31, 2022
- Covanta DYEC Emergency Action Plan/Fire Safety Plan
- Settling Basin cleanout - Covanta Work Clearance Permit/record of completion
- Covanta Emergency Diesel Generator Data Record Sheet
- Covanta Environmental 5-day Notification Report
- Covanta Evacuation/Emergency Drill Report
- Covanta Meter Reading File, Pit Inventory
- Covanta Outside Environmental Checklists – May 11, June 6, August 2, Sept 8, 2022
- Covanta Weekly Environmental Site Inspection Form – week of March 14, July 17, October 30, December 4, 2022
- Covanta Production Activities and Data
- Covanta Shift Engineer Logbook – can review on-site
- Covanta 2022 Spill Report Log
- Covanta Spill Reporting Forms for 2022
- Customer/Material Report
- Daily Waste Logs
- Durham Region Daily and Monthly Checklist - review on-site

**Document Availability – During Audit**

- MECP inspections reports/emails documenting MECP action items and meetings
- Durham York Energy Centre Odour Plans & Reports Binder – review on-site
- Durham Daily Odour Monitoring Log Sheet
- Durham Monthly OHS/Operational Workplace Inspections
- DYEC Groundwater and Surface Water Monitoring Plan and Reports Binder – review on-site
- DYEC Training Matrix
- DYEC Waste Screening Report - Tipping Floor - February 12, April 14, June 24, November 10, December 11, 2022
- Current Emission Summary and Dispersion Modelling Report
- GHG Reporting (RY 2021): Confirmation of Submission and Report Preview printouts; calculations
- NPRI Reporting (RY 2021): Confirmation of Submission and Report Preview printouts; calculations
- Letter to the Ministry regarding Notice of Emergency Storage of Waste
- Waste manifests (both Covanta and Region of Durham)
- Covanta 2022 Complaint Log
- Radiation Detection logs - review on-site
- Scale House Calibration Reports
- Fire Inspection Reports, Fire Suppression and Sprinkler Inspection Reports
- TDG Certificates for those signing waste manifests
- Covanta Unacceptable Waste Logs for 2022
- WHMIS training records
- Storage Tank Inspection Reports
- List of halocarbon containing units on-site
- SOP DYEC-REF-007 Unacceptable Waste Receiving Handling Storage and Disposal
- DYEC-REF-004 Residue Building Loader Cleaning

**Agreement with Audit Plan**

The signatures of both the DYEC Audit Coordinator and Lead Auditor are required to indicate that they agree with the Audit Plan.

Print Name of DYEC Coordinator: Lyndsay Waller

Signature:

Date:

Print Name of Lead Auditor:

Signature:

Date:

## **Appendix C**

List of Records and Documents Reviewed

## List of Records and Documents Reviewed

### Reviewed from the DYEC Website

- 2021 Annual Waste Management Report, York Region
- 2021 Compliance Monitoring Report, MECP Acknowledgement Letter dated November 3, 2022
- 2021 Third Party Independent Audit DYEC Facility Operations Phase Audit Report, April 28, 2022
- 2021 Third Party Independent Audit DYEC Facility Operations Phase Audit Report, MECP Letter, August 18, 2022
- 2021 Third Party Independent Audit DYEC Facility Operations Phase Audit Report, Submission Letter, April 29, 2022
- 2022 Complaint and Inquiry Logs
- 2022 DYEC Facility Operations Annual ECA Report
- 2022 DYEC Facility Operations Annual Report Submission Letter, dated March 30, 2023
- 2022 Odour Management and Mitigation Monitoring Report, Covanta Durham York Renewable Energy, November 2022
- DYEC 2021 Annual Groundwater and Surface Water Monitoring Report, MECP Letter, April 29, 2022
- DYEC 2021 Annual Groundwater and Surface Water Monitoring Report, RWDI, April 27, 2022
- DYEC 2022 Compliance Monitoring Report, November 2, 2022
- DYEC 2022 Voluntary Compliance Emission Testing Program, ORTECH August 16, 2022
- DYEC Ambient Air Monitoring 2022 Q1 Report, MECP Submission Letter, May 13, 2022
- DYEC Ambient Air Monitoring 2022 Q2 Report, MECP Submission Letter, August 12, 2022
- DYEC Ambient Air Monitoring 2022 Q3 Report, MECP Submission Letter, November 14, 2022
- DYEC Ambient Air Monitoring 2022 Q4 Report, MECP Submission Letter, February 14, 2023
- DYEC Community Communications Plan, August 2013
- DYEC Long-Term Sampling System Q1 Report, January to March 2022

- DYEC Long-Term Sampling System Q2 Report, April to June 2022
- DYEC Long-Term Sampling System Q3 Report, July to September 2022
- DYEC Operations Phase Audit Plan Revision 1, April 7, 2020
- DYEC Submission of Durham Waste Diversion Program Monitoring Report for 2021, MECP Submission Letter, October 28, 2022
- DYEC Submission of the 2022 Odour Management and Mitigation Monitoring Report, MECP Submission Letter, November 25, 2022
- DYEC Submission of York Waste Diversion Program Monitoring Plan, MECP Submission Letter, October 14, 2022
- DYEC Third Party Independent Audit Report - Operation Year 2021, MECP Submission Letter, April 29, 2022
- RWDI, Q1 Ambient Air Quality Monitoring Report, May 12, 2022
- RWDI, Q2 Ambient Air Quality Monitoring Report, August 10, 2022
- RWDI, Q3 Ambient Air Quality Monitoring Report, November 11, 2022
- RWDI, Q4 Ambient Air Quality Monitoring Report, March 6, 2022
- Waste Management Annual Report 2021, Region of Durham

#### On-Site Documentation Reviewed

- 2021 GHGRP - Confirmation of Submission, dated May 31, 2022
- 2021 NPRI 2021 Part 4 Estimates
- 2021 NPRI Report Preview, Report Submitted May 31, 2022
- 2021 NPRI Total Released Calculations
- 22\_06 Monthly Fire Extinguisher Inspections.pdf
- 22\_12 Monthly Fire Extinguisher Inspection.pdf
- 2022 Evacuation Drills
  - 04-28-22 - Crew D - signed.pdf
  - 06-29-22 - Crew D - signed.pdf
  - 09-20-22 - Crew A - signed.pdf
  - 11-18-22 - Crew C - signed.pdf
- Abell Monthly Pest Management Status Reports, February 1, May 2, August 2, October 31, 2022
- Abell Ontario Pesticide License L-240-7034656781 expire date December 31, 2022
- ALS Environmental, Certificate of Analysis, Q1 Bottom Ash Total Metals, March 18, 2022



- ALS Environmental, Certificate of Analysis, Q1 Fly Ash Total Metals, March 3, 2022
- ALS Environmental, Certificate of Analysis, Q2 Bottom Ash Total Metals, June 23, 2022
- ALS Environmental, Certificate of Analysis, Q2 Fly Ash Total Metals, June 15, 2022
- ALS Environmental, Certificate of Analysis, Q3 Bottom Ash Total Metals, September 26, 2022
- ALS Environmental, Certificate of Analysis, Q3 Fly Ash Total Metals, September 9, 2022
- ALS Environmental, Certificate of Analysis, Q4 Bottom Ash Total Metals, November 24, 2022
- ALS Environmental, Certificate of Analysis, Q4 Fly Ash Total Metals, November 16, 2022
- ALS Life Sciences, Certificate of Analysis, U1 70B March 21, 2022
- AMESA measurement summary Run 70 Jan 5 to Feb 4, 2022
- AMESA measurement summary Unit 1 Run 74 May 25 to Jun 15, 2022
- Ammonia monitoring/alarm equipment check / PM:
  - VAHH-3852-1 Elevation 18 - Ammonia Lances on December 7, 2022
  - VAHH-3852-2 Elevation 18 - Ammonia Lances on December 7, 2022
  - C-AIT-3830-5 Elevation 18 - Ammonia Lances on December 7, 2022
  - C-AIT-3830-1 Ammonia Dyke on December 6, 2022
  - C-AIT-3830-2 Ammonia Dyke on December 6, 2022
  - C-AIT-3830-3 Ammonia Dyke on December 6, 2022
  - C-AIT-3830-4 Ammonia Dyke on December 6, 2022
- Compliance Obligations Table, October 3, 2022
- Covanta 2022 Complaint/Concerns received at DYEC Log
- Covanta Annual Sewage Inspection Form, November 1, 2022
- Covanta DURYK Work Clearance Permit - Settling Basin, April 29, 2022
- Covanta DURYK Work Clearance Permit - Settling Basin, October 27, 2022
- Covanta DYEC Amesa - Investigation Checklist, August 26, 2022
- Covanta DYEC Amesa - Investigation Checklist, September 19, 2022
- Covanta DYEC Bottom Ash Sampling Record, February 15, 2022
- Covanta DYEC Bottom Ash Sampling Record, June 13, 2022
- Covanta DYEC Bottom Ash Sampling Record, November 8, 2022
- Covanta DYEC Bottom Ash Sampling Record, September 12, 2022

- Covanta DYEC Customer/Material Report January 1, 2022 to December 31, 2022
- Covanta DYEC Fly Ash Sampling Record, August 29, 2022
- Covanta DYEC Fly Ash Sampling Record, February 15, 2022
- Covanta DYEC Fly Ash Sampling Record, May 29, 2022
- Covanta DYEC Fly Ash Sampling Record, November 8, 2022
- Covanta DYEC Inventory Stocking Report, Jan 23, 2023
- Covanta DYEC List of Consumables, Equipment Listing as of December 31, 2022
- Covanta DYEC Spill Report Log: Year 2022
- Covanta Env Weekly Walkdown EFW, March 18, July 22, October 14, October 21, November 4, 2022
- Covanta Environmental 5 Day Notification Report template, Rev 1. 22-Jul-19
- Covanta Knowledge Verification - GHS/WHMIS, July 2022
- Covanta Knowledge Verification - Tipping Floor Waste for New Hires, April 2021
- Covanta Odour Log, March 16 and 17, 2022
- Covanta Odour Log, Sept 30 - Oct 4, 2022
- Covanta Outside Environmental Checklist, May 11, June 6, August 2, September 8, October 12, 2022
- Covanta Radiation Detection Log, April 25, 2022
- Covanta Radiation Detection Log, July 20, 2022
- Covanta Radiation Detection Log, March 1, 2022
- Covanta Safety Training Matrix R. 3 Feb 9, 2023
- Covanta Spill Reporting Form and MECF Email Correspondence Re: Durham York - Hydraulic Oil Stain, September 15, 2022
- Covanta Spill Reporting Form, January 28, 2022
- Covanta Unacceptable Waste Log, August 31, 2022 to November 25, 2022
- Covanta Unacceptable Waste Log, February 22, 2022 to May 27, 2022
- Covanta Unacceptable Waste Log, May 28, 2022 to August 30, 2022
- Covanta Unacceptable Waste Log, November 22, 2021 to February 18, 2022
- Covanta Waste Screening Report - Tipping Floor, January 3, February 8, May 27, July 8, August 31, October 4, 2022
- Covanta DYEC Emergency Action/Fire Safety Plan, Revision 17, Nov 14, 2022, Reviewed Jan 31, 2023
- DYEC Tank Compilation, Feb 21, 2023
- DYEC-REF-004 Residue Building Loader Cleaning, November 9, 2020

- DYEC-REF-007 Unacceptable Waste Receiving, Handling, Storage & Disposal, December 9, 2020
- Email correspondence RE: 73 C and D, July 4, 2022
- Email correspondence RE: DYEC - Annual Review of SOPs and EAPs for Scale House February 17 - 22, 2022
- Email correspondence RE: DYEC: Odour Concern received 06-Jun-22, June 9, 2022
- Email correspondence RE: DYEC: Odour Concern received 07-Sep-22, Sept 9, 2022
- Email correspondence RE: Odour Concern received 11-May-22, May 13, 2022
- Email correspondence RE: Roll Off bin Deliveries, July 4 to 7, 2022
- Emergency Response Training Records for:
  - Dan Williams - Durham Scale Operator - EAP Scale House Attendant Requirements
  - Tim Hanlon - Control Room Operator - 10 Modules
- Emission sensor calibration records (2 sensors) for:
  - QUARTERLY OPACITY AUDIT REPORT Unit #1 Unit #2 on 1/28/22
  - Q1 Certification of Neutral Density Audit Filters
  - DurhamCGA Rev Q1 2022
  - Q1 CGA CofA
  - 20220205 CEMS Boiler 1 Daily Cal.pdf
  - 20220211 Weekly Status Report.pdf
  - 20220225 Weekly Status Report - Monthly PM Completed.pdf
  - 20220305 AMESA bi-annual mtc.pdf
- Eyewash Inspections records for February 2022
- Gamble Technologies Limited, Calibration Certificate 74-74529, September 8, 2022
- Gamble Technologies Limited, Email Correspondence RE: PO 2565 - Covanta Durham York LFM-3 Service Quote 2022, April 5 - 11, 2022
- Gamble Technologies Limited, Service Report - On-site PM for LFM-3 Monitor, February 18, 2022
- Gamble Technologies Limited, Service Report - On-site PM for LFM-3 Monitor, February 22, 2022
- Letter to the Ministry regarding Notice of Emergency Storage of Waste, dated March 9, 2022

- Letter to the Ministry regarding Notice of Emergency Storage of Waste, dated October 3, 2022
- Letter to the Ministry regarding the Termination of Notice of Emergency Storage of Waste, Dated March 29, 2022
- Letter to the Ministry regarding the Termination of Notice of Emergency Storage of Waste, Dated October 7, 2022
- Manifest MX091276-0 November 24, 2022, white copy 1, green copy 2
- Manifest MX091944-3 May 27, 2022, white copy 1, green copy 2, brown copy 6
- Manifest MX518448-0 December 23, 2022, green copy 2, brown copy 6, yellow copy 3
- Manifest MX519850-6, April 7, 2022, white copy 1, green copy 2, brown copy 6
- Manifest MX537354-7, April 16, 2022, green copy 2, yellow copy 3, white copy 3
- Manifest MX626550-2, July 15, 2022, green copy 2, blue copy 5, brown copy 6
- Manifest MX681722-9, October 31, 2022, white copy 1, green copy 2, brown copy 6, yellow copy 3
- Manifest MX690635-2, July 9, 2022, white copy 1, green copy 2, brown copy 6, yellow copy 3
- Manifest MX729748-8 August 30, 2022, white copy 1, green copy 2, brown copy 6
- Outlook Calendar Q1 DYEC Update March 3, 2022
- Outlook Calendar Q2 DYEC Update June 7, 2022
- PCScale Customer Material Report 2022
- Photech, Straight Bill of Lading 595437, February 18, 2022
- Pumping of Waste Water Settling Basin to Ammonia Dike.msg
- Saturn Scale Systems Inc. Truck Scale Calibration Report, Inbound and Outbound, August 10, 2022
- Saturn Scale Systems Inc. Truck Scale Calibration Report, Inbound and Outbound, Feb 8, 2022
- Saturn Scale Systems Inc. Truck Scale Calibration Report, Inbound and Outbound, May 6, 2022
- Saturn Scale Systems Inc. Truck Scale Calibration Report, Inbound and Outbound, November 18, 2022
- SGS Certificate of Analysis, Bottom Ash LOI, June 28, 2022
- SGS Certificate of Analysis, Bottom Ash LOI, March 3, 2022
- SGS Certificate of Analysis, Bottom Ash LOI, November 21, 2022
- SGS Certificate of Analysis, Bottom Ash LOI, September 26, 2022

- Spills Response Training Records for 37 applicable Covanta workers - 2022
- Transportation of Dangerous Goods for Shippers Certificate of Training, Completed April 22, 2022, Korey Glover
- Transportation of Dangerous Goods for Shippers Certificate of Training, Completed April 29, 2022, Francis Trottier
- Transportation of Dangerous Goods for Shippers Certificate of Training, Completed April 4, 2022, Lydia Kwan
- Transportation of Dangerous Goods for Shippers Certificate of Training, Completed December 10, 2022, Drew Allen
- Transportation of Dangerous Goods for Shippers Certificate of Training, Completed November 26, 2020, Logan McDonell

## **Appendix D**

ECA and EA Checklists

**Appendix D1**  
**Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence <b>Apr 4-5, 2023</b>
1	<b>GENERAL Compliance ECA 1(1)</b> The Owner shall ensure compliance with all the conditions of this Certificate and shall ensure that any person authorized to carry out work on or operate any aspect of the Site, including the Works, is notified of this Certificate and the conditions herein and shall take all reasonable measures to ensure any such person complies with the same.	2022 ECA Annual Report submitted March 30, 2023 to the MECP.  Employee and contractor training completed as per the Covanta Operator Qualification Program and Environmental Training Matrix, as appropriate.
2	<b>ECA 1(2)</b> Any person authorized to carry out work on or operate any aspect of the Site shall comply with the conditions of this Certificate.	2022 ECA Annual Report and as observed during the site visit.
3	<b>Build in Accordance ECA 1(3)(a)</b> Except as otherwise provided by this Certificate, the Site shall be designed, developed, built, operated, monitored, inspected and maintained in accordance with the following applications: (i) Applications for a Certificate of Approval (Air) dated March 2, 2011, each signed by Cliff Curtis, Commissioner of Works, The Regional Municipality of Durham, by Erin Mahoney, Commissioner of Environmental Services, The Regional Municipality of York and by Matthew R. Mulcahy, Senior Vice President, Business Development, Covanta Durham York Renewable Energy Limited Partnership, and the Supporting Documentation listed in the attached Schedule "A".	No changes made in 2022
4	<b>ECA 1(3)(a)(ii)</b> Applications for a Provisional Certificate of Approval (Waste Disposal Site) dated March 2, 2011, each signed by Cliff Curtis, Commissioner of Works, The Regional Municipality of Durham, by Erin Mahoney, Commissioner of Environmental Services, The Regional Municipality of York and by Matthew R. Mulcahy, Senior Vice President, Business Development, Covanta Durham York Renewable Energy Limited Partnership, and the Supporting Documentation listed in the attached Schedule "A".	No changes made in 2022
5	<b>ECA 1(3)(a)(iii)</b> Applications for a Certificate of Approval of Municipal and Private Sewage Works dated March 2, 2011, each signed by Cliff Curtis, Commissioner of Works, The Regional Municipality of Durham, by Erin Mahoney, Commissioner of Environmental Services, The Regional Municipality of York and by Matthew R. Mulcahy, Senior Vice President, Business Development, Covanta Durham York Renewable Energy Limited Partnership, and the Supporting Documentation listed in the attached Schedule "A".	No changes made in 2022
6	<b>ECA 1(3)(b)(i)</b> Any design optimization or modification that is inconsistent with the conceptual design set out in the Supporting Documentation in Schedule "A" shall be clearly identified, along with an explanation of the reasons for the change and submitted to the Director for approval.	No changes made in 2022
7	<b>ECA 1(3)(b)(ii)</b> If a change to the conceptual design is submitted to the Director for approval, no construction of the Site shall commence prior to the Director approving, in writing, the final conceptual design of the Site.	N/A
8	<b>As built Drawings ECA 1(4):</b> (a) Within ninety (90) days of the completion of the initial successful Source Testing program, a set of as built drawings showing the Facility and the Works and bearing the stamp of a Professional Engineer, shall be prepared and retained at the Site. (b) These drawings shall be kept up to date through revisions undertaken from time to time and a copy shall be retained at the location of the Site or at the operational office of the Owner for the operational life of the Site. (c) Notwithstanding provisions of Condition 1(4)(b), an amendment to this Certificate shall be sought for changes to the as built drawings, requiring approval. (d) The as built drawings shall be made available to Ministry staff upon request.	As-built drawings were located in the Visitor Center. The most recent date on the as-built drawing located in the Visitor Center was October 27, 2016. Facility staff noted that there were no changes to the as-built drawings in 2022.
9	<b>Interpretation ECA 1(5)</b> Where there is a conflict between a provision of any document, including the application referred to in this Certificate and the conditions of this Certificate, the conditions in this Certificate shall take precedence. (6) Where there is a conflict between the applications and a provision in any documents listed in Schedule "A", the applications shall take precedence, unless it is clear that the purpose of the document was to amend the applications and that the Ministry approved the amendment. (7) Where there is a conflict between any two documents listed in Schedule "A", other than the applications, the document bearing the most recent date shall take precedence. (8) The requirements of this Certificate are severable. If any requirement of this Certificate, or the application of any requirement of this Certificate to any circumstance, is held invalid or unenforceable, the application of such requirement to other circumstances and the remainder of this Certificate shall not be affected thereby.	N/A
10	<b>Other Legal Obligations ECA 1(9)</b> The issuance of, and compliance with the conditions of this Certificate does not: (a) relieve any person of any obligation to comply with any provision of any applicable statute, regulation or other legal requirement; or (b) limit in any way the authority of the Ministry to require certain steps be taken or to require the Owner to furnish any further information related to compliance with this Certificate.	Legal Listing is maintained for the Facility's ISO 14001 Certification. Compliance Obligations Table last updated on October 3, 2022.
11	<b>Adverse Effects ECA</b> <b>1(10)</b> The Site shall be constructed, operated and maintained in a manner which ensures the health and safety of all persons and prevents adverse effects on the natural environment or on any persons. <b>(11)</b> The Owner shall take steps to minimize and ameliorate any adverse effect on the natural environment or impairment of water quality resulting from the approved operations at the Site, including such accelerated or additional monitoring as may be necessary to determine the nature and extent of the effect or impairment. <b>(12)</b> Despite the Owner or any other person fulfilling any obligations imposed by this Certificate, the person remains responsible for any contravention of any other condition of this Certificate or any applicable statute, regulation, or other legal requirement resulting from any act or emission that caused the adverse effect to the natural environment or impairment of water quality. <b>(13)</b> If at any time odours, pests, litter, dust, noise or other such negative effects are generated at this Site and cause an adverse effect, the Owner shall take immediate appropriate remedial action that may be necessary to alleviate the adverse effect, including suspension of all waste management activities if necessary.	11) Not applicable for 2022. 12) Covanta maintains a legal registry (Compliance Obligations Table). 13) Daily and monthly checklist are completed by the Region to record negative effects such as odour, pests, litter, dust, noise or other. Abell Pest Management Program (Abell Pest Control) 2022 Monthly Pest Control Status Reports indicated that there are 43 exterior stations and 23 interior stations.

**Appendix D1  
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence <b>Apr 4-5, 2023</b>
12	<p><b>Change of Ownership ECA 1(14) amended</b> The Regions shall notify the Director in writing, and forward a copy of the notification to the District Manager, within thirty (30) days of the occurrence of any changes:</p> <p>(a) the ownership of the Site;            (b) the operator of the Site;            (c) the address of the Regions;            (d) the partners, where the Regions are or at any time become a partnership and a copy of the most recent declaration filed under the Business Names Act, R.S.O. 1990, c. B.17, as amended, shall be included in the notification;            (e) the name of the corporation where the Regions are or at any time become a corporation, other than a municipal corporation, and a copy of the most current information filed under the Corporations Information Act, R.S.O. 1990, c. C.39, as amended, shall be included in the notification.</p>	No change of Ownership in 2022
13	<p><b>ECA 1(15) amended</b> No portion of this Site shall be transferred or encumbered prior to or after closing of the Site unless the Director is notified in advance. In the event of any change in ownership of the Site, other than change to a successor municipality, the Regions shall notify the successor of and provide the successor with a copy of this Approval, and the Regions shall provide a copy of the notification to the District Manager and the Director.</p>	No change of Ownership in 2022
14	<p><b>Inspections by the Ministry ECA 1(16)</b> No person shall hinder or obstruct a Provincial Officer from carrying out any and all inspections authorized by the OWRA, the EPA, the PA, the SDWA or the NMA of any place to which this Certificate relates, and without limiting the foregoing:</p> <p>(a) to enter upon the premises where the approved processing is undertaken, or the location where the records required by the conditions of this Certificate are kept;            (b) to have access to, inspect, and copy any records required to be kept by the conditions of this Certificate; (c) to inspect the Site, related equipment and appurtenances;            (d) to inspect the practices, procedures, or operations required by the conditions of this Certificate;            (e) to conduct interviews with staff, contractors, agents and assignees of the Owner; and            (f) to sample and monitor for the purposes of assessing compliance with the terms and conditions of this Certificate or the EPA, the OWRA, the PA, the SDWA or the NMA.</p>	No MECP Inspection Reports were issued in 2022.
15	<p><b>Information ECA 1(17)</b> Any information requested by the Ministry, concerning the operation of the Site and its operation under this Certificate, including but not limited to any records required to be kept by this Certificate, manuals, plans, records, data, procedures and supporting documentation shall be provided to the Ministry, in a timely manner, upon request.</p>	There were no specific requests by the Ministry in 2022, as reported by facility. As per the 2022 ECA Annual Report, the facility was operating in compliance with the ECA. In 2022, there were no excursions to Performance Requirements as listed in Condition 6.
16	<p><b>ECA 1(18)</b> The receipt of any information by the Ministry or the failure of the Ministry to prosecute any person or to require any person to take any action, under this Certificate or under any statute, regulation or other legal requirement, in relation to the information, shall not be construed as:</p> <p>(a) an approval, waiver, or justification by the Ministry of any act or omission of any person that contravenes any term or condition of this Certificate or any statute, regulation or other legal requirement; or            (b) acceptance by the Ministry of the information's completeness or accuracy.</p>	N/A
17	<p><b>ECA 1(19)</b> The Owner shall ensure that a copy of this Certificate, in its entirety and including all its Notices of Amendment and the Supporting Documentation listed in Schedule "A" are retained at the Site at all times.</p>	Copies of the ECA Certificate, Notice 1 and 2 are available on the company's website.
18	<p><b>SERVICE AREA, APPROVED WASTE TYPES, RATES and STORAGE ECA 2(1)</b> The service area for the Site is the area within the jurisdictional boundaries of The Regional Municipality of Durham and The Regional Municipality of York.</p>	As listed in Section 2.2 of the 2022 ECA Annual Report and the Covanta DYEC Customer/Material Report, the waste sources are from the Regional Municipality of Durham and York.
19	<p><b>ECA 2(2)</b> The operation of this Site is limited to:</p> <p>(a) receipt, temporary storage, transfer and processing, including thermal treatment, of solid non hazardous waste remaining after Waste Diversion required by the EA Approval, limited to Waste from the following sources:            (i) domestic waste and Industrial Commercial and Institutional waste from the Regions' curbside collection and/or from the Regions' waste management facilities; and            (ii) waste generated on Site through activities not relating to the handling and processing of Waste (ie. office, lunch room, etc.);            (b) collection and management of the storm water run off generated at the Site.</p>	Refer to Item 18. (i) Regional curbside program as described in 2021 Durham Region Waste Management Annual Report and 2021 York Region Annual Solid Waste Diversion Report. (ii) Staff description of programs in place. a) Two settling ponds observed during the site visit. No visible sheen was observed. Spill kits were in place at each.
20	<p><b>ECA 2(3)</b> The following Unacceptable Waste is prohibited from being accepted at the Site:</p> <p>(a) hazardous waste, as defined in the O. Reg. 347;            (b) wastes which have been source separated for the purposes of diversion.</p>	As stated in Section 32.3 of the Project Agreement and SOP DYEC-REF-007 Unacceptable Waste Receiving Handling Storage and Disposal Revision 4, December 9, 2020, the Contractor shall not knowingly accept any delivery of unacceptable waste. The SOP defines the terms hazardous waste and unacceptable waste. Radioactive waste detected at the Scale House is diverted from the site.
21	<p><b>ECA 2(3)</b> (c) international waste generated outside of Canada, but collected within the jurisdictional boundaries of The Regional Municipality of Durham and The Regional Municipality of York.</p>	Refer to Item 18.
22	<p><b>ECA 2(4)</b> Waste Receipt Rate:            (a) The maximum daily amount of Waste that is approved to be accepted at the Site shall not exceed 1,520 tonnes per day.</p>	2022 ECA Annual Report, Section 2.3 states that the maximum amount received in one day was 865.77 tonnes on May 26, 2022. Review of Customer Material Reports.



**Appendix D1**  
**Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence Apr 4-5, 2023
23	<b>Storage Restrictions: Solids ECA 2(5)(a)</b> A maximum of 7,350 cubic metres shall be stored inside the Waste pit within the Tipping Building as shown in the Supporting Documentation.	2022 ECA Annual Report, Section 2.3 states that the greatest amount of waste stored in one day was 2,999 tonnes (approximately 7,226 m <sup>3</sup> ) on October 6, 2022. Confirmed with the Meter Reading File that the Pit Inventory at midnight on October 6, 2022 was 2,999 tonnes.
24	<b>ECA 2(5)(b)</b> Rejected Waste, limited to the Bulky Unprocessable Items removed from the incoming Waste in the Tipping Building shall be stored: (i) in two (2) roll off bins having a maximum total storage capacity of 30 cubic metres, located within the confines of the Tipping Building; and/or (ii) in the appropriate dedicated bunkers, located within the confines of the Residue Building and described in Conditions 2(5)(c), 2(5)(d) and 2(5)(d).	In 2022, there were thirty-four shipments of Bulky Unprocessable Items. Bulky unprocessable items reportedly included hot tubs, plastic totes and pipes.  One bin was noted in the Tipping Building during the 2022 on-site examination. It was approximately 1/2 full.
25	<b>ECA 2(5)(b)(iii) amended</b> The Owner may use equipment used to handle the hazardous wastes to handle other wastes provided that prior to such use the equipment has been thoroughly cleaned first.	Loader is used for bottom ash, fly ash, ferrous and non-ferrous. DYEC-REF-004 Residue Building Loader Cleaning Revision 1, November 9, 2020 in place.  During the 2022 on-site examination, the loader was parked in the Residue building.
26	<b>ECA 2(5)(c) amended</b> A maximum of approximately 77 tonnes or 106 cubic metres of the Residual Waste, limited to the recovered ferrous metals, shall be stored in one (1) dedicated bunker, located within the confines of the Residue Building, described in the Supporting Documentation.	2022 ECA Annual Report, Table 5 (daily maximum of 71 tonnes was reported in August 2022). The size of the bunker will not permit the storage of the maximum allowable limit. Ferrous bunker was approximately 1/3 full during 2022 on-site examination. Average 4 to 6 pick ups per month by Triple M from Brampton. December 2022 weigh bills reviewed.
27	<b>ECA 2(5)(d) amended</b> A maximum of approximately 120 tonnes or 100 cubic metres of the Residual Waste, limited to the recovered non ferrous metals, shall be stored in one (1) dedicated bunker, located within the confines of the Residue Building, described in the Supporting Documentation.	2022 ECA Annual Report, Table 5 (daily maximum of 49 tonnes was reported in December 2022). The size of the bunker will only permit the storage of up to the maximum allowable limit. Non-ferrous residual waste was approximately 1/3 full during 2022 on-site examination. Average 1 pick up per month by Triple M from Brampton. December 2022 weigh bills reviewed.
28	<b>ECA 2(5)(e) amended</b> A maximum of 630 tonnes of the Residual Waste, limited to the bottom ash shall be stored in two (2) dedicated bunkers, located within the confines of the Residue Building, described in the Supporting Documentation.	2022 ECA Annual Report, Table 5 (daily maximum of 617 tonnes was reported in September 2022). The size of the bunkers will not permit the storage of the maximum allowable limit. Bottom Ash bunkers were approximately 1/8 and 1/4 full during the 2022 on-site examination.
29	<b>ECA 2(5)(f) amended</b> A maximum of 700 tonnes of the Residual Waste, limited to the fly ash shall be stored in seven (7) dedicated bunkers, located within the confines of the Residue Building, described in the Supporting Documentation.	2022 ECA Annual Report, Table 5 (daily maximum of 492 tonnes was reported in July 2022). The size of the bunkers will not permit the storage of the maximum allowable limit. Fly ash bunkers 1 to 6 were all well below their maximum limit as follows: empty, residue, 1/3 full, 1/4 full, 1/8 full, 1/4 full). Raw fly ash in bunker 7 was approximately 1/4 full and marked with an orange cone so not picked up.
30	<b>ECA 2(5)(g)</b> A maximum of 85 cubic metres of activated carbon for the carbon injection system shall be stored in one (1) outdoor tank, located adjacent to the APC Building.	Tank observed during site visit.
31	<b>ECA 2(5)(h)</b> A maximum of 150 cubic metres of lime for the dry scrubber shall be stored in one (1) or more indoor tank(s), located within the confines of the APC Building.	Lime storage vessel observed during site visit.
32	<b>ECA 2(5)(i)</b> If required, recirculated residue shall be stored in one (1) or more indoor tank(s), located within the confines of the APC Building.	None observed during the 2022 on-site examination.
33	<b>ECA 2(5)(j) amended</b> A maximum of 65 cubic metres of cement for fly ash conditioning shall be stored in one (1) outdoor silo, located adjacent to the Residue Building.	Silo observed during site visit.
34	<b>ECA 2(5)(k) amended</b> A maximum of 105 cubic metres of pozzolan for fly ash conditioning shall be stored in one (1) outdoor silo, located adjacent to the Residue Building.	Silo observed during site visit.
35	<b>Liquids ECA 2(5)(l)(i) amended</b> A maximum of 57 cubic metres of aqueous ammonia for the SNCR System shall be stored in one (1) outdoor tank, located adjacent to the Residue Building.	Storage vessel observed during site visit. The secondary containment was empty during the 2022 on-site examination.

**Appendix D1  
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence <b>Apr 4-5, 2023</b>
36	<b>ECA 2(5)(i)(ii)</b> The Owner shall ensure that the aqueous ammonia storage tank is equipped with a liquid level monitoring device designed to provide a visual and an auditory alarm when the high level set point is reached.	Monitoring/alarm equipment observed during site visit. PM's are conducted every 6 months. The 2022 annual calibrations records were reviewed. Alarm settings were all deemed as TRUE. As found results were slightly out of tolerance for several instruments in the lower detection range that indicated that sensors readings may have been slightly higher than actual.
37	<b>ECA 2(5)(i)(iii)</b> The aqueous ammonia storage tank spill containment area and the loading area shall be designed in accordance with the requirements in the Ministry's document entitled "Guidelines for Environmental Protection Measures at Chemical and Waste Storage Facilities" dated May 2007, as amended.	Ammonia containment observed to be empty during 2022 on-site examination. Water levels are checked during the daily Outdoor Environmental Checklist and weekly Environmental Site Inspection. Ten examples from 2022 were reviewed during the 2022 on-site examination.  In response to finding from 2021 report, the Operations Manager/Chief Operating Engineer sent an email to staff on April 28, 2022 that containment areas will no longer be used for temporary or emergency storage of water from the settling basin (or otherwise). The email clearly stated that if the practice was deemed necessary, that it would require his approval.
38	<b>ECA 2(6)</b> No outdoor storage of waste, including storage in vehicles, is approved under this Certificate.	None observed during the site visit.  The only exception would be the empty compressed gas cylinders (unacceptable waste) stored outside of the tipping floor in a secure container (approved by Ministry in 2018). Two empty helium tanks and one small propane tank were observed in the secure bin outside the tipping floor bay door during the 2022 on-site examination.
39	<b>ECA 2(7)</b> The Owner shall ensure that storage of all wastes is undertaken in a manner that does not cause an adverse effect or a hazard to the environment or any person.	During the 2022 on-site examination, storage and containment of wastes was managed to prevent an adverse effect. Trucks were closed, tipping floor doors were closed before unloading / loading.
40	<b>ECA 2(8)(a) amended</b> Waste received at the Site shall be processed within six (6) days from its receipt at the Site.	See item 41.
41	<b>ECA 2(8)(b) amended</b> Emergency Storage of Waste Requirements: (i) On emergency basis only, the storage duration of Waste inside the tipping pit may be extended beyond the limit set out in Condition 2.(8)(a) above, subject to compliance with the following requirements: (A) prior to the start of the emergency storage of Waste, the Owner shall notify, in writing, the District Manager that the incoming Waste will be stored longer than six (6) days from its receipt; (B) any additional information that the District Manager may require shall be submitted within a time period acceptable to the District Manager; (C) the proposed preventative measures for emergency storage of Waste as identified in the Operations and Maintenance Manual shall be implemented upon commencement of the emergency storage of Waste and shall remain in effect for the entire duration of the emergency storage, unless otherwise advised by the District Manager; and (D) the Owner shall notify, in writing, the District Manager when emergency storage is no longer required.	Covanta DYEC - Notice of Emergency Storage of Waste, dated March 9, 2022 (as a result of Boiler maintenance). Covanta DYEC - Notice of Termination of Emergency Storage of Waste, dated March 29, 2022.  Covanta DYEC - Notice of Emergency Storage of Waste, dated October 3, 2022 (as a result of Boiler maintenance). Covanta DYEC - Notice of Termination of Emergency Storage of Waste, dated October 7, 2022.
42	<b>ECA 2(9)</b> In the event that Waste cannot be processed at the Site and the Site is at its approved storage capacity, the Owner shall cease accepting additional Waste. Receipt of additional Waste may be resumed once such receipt complies with the waste storage limitations approved in this Certificate.	Maximum storage capacity not reached in 2022, see item 23.
43	Signs and Site Security ECA 3(1) Prior to receipt of Waste at the Site, the Owner shall ensure that a sign is posted at the entrance to the Site. The sign shall be visible from the main road leading to the Site. The following information shall be included on the sign: (a) name of the Owner; (b) this Certificate number; (c) hours during which the Site is open; (d) waste types that are approved to be accepted at the Site; (e) Owner's telephone number to which complaints may be directed; (f) Owner's twenty four hour emergency telephone number (if different from above); (g) a warning against unauthorized access; and (h) a warning against dumping at the Site.	Observed sign during site visit and included all items listed. Signage at both entrances were visible during the 2022 on-site examination.
44	<b>ECA 3(2)</b> The Owner shall ensure that appropriate and visible signs are posted at the Site clearly identifying the wastes and the process reagents and stating warnings about the nature and any possible hazards of the wastes and the reagents.	Signage clearly posted.
45	<b>ECA 3(3)</b> The Owner shall ensure that appropriate and visible signs are posted at the Site to prohibit smoking, open flames or sources of ignition from being allowed near any flammable materials storage areas.	Observed "no smoking" signs on outside flammable gas storage cages. No smoking is permitted inside the plant.

**Appendix D1  
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence <b>Apr 4-5, 2023</b>
46	<b>ECA 3(4)</b> The Owner shall install and maintain appropriate and visible signs at the Site to direct vehicles to the Waste receiving and Residual Waste removal areas and to the reagent unloading areas.	Observed signs and painted arrows on roadways during site visit. The Scale House operator interviewed in the 2022 on-site examination confirmed the process for new drivers or contractors to the site.
47	<b>ECA 3(5)</b> The Owner shall post appropriate and visible signs along the traffic route providing clear directions to the Site.	There are visible signs and painted arrows on roadway directing traffic to the Site.
48	<b>ECA 3(6)</b> The Owner shall ensure that the Site is fenced in and that all entrances are secured by lockable gates to restrict access only to authorized personnel when the Site is not open.	Observed signs during site visit. Lockable gates and doors were observed. Access to on site buildings and operations is restricted only to authorized personnel. Monthly Health and Safety/Operational - Workplace Inspection are completed by the Region. This includes a check of the fence, gate and security.
49	<b>ECA 3(7)</b> The Owner shall ensure that access to the Site, with the exception of the area designated as a Public Information Centre, is regulated and that no unauthorized persons are permitted at the Site without the Trained Personnel escort.	Confirmed during site visit. No unauthorized persons permitted in the facility. Facility entrances are locked. There is a buzzer to enter the visitor centre. Contractors are required to sign in at the front desk and/or the Scale House.
50	<b>ECA 3(8)</b> The Owner shall ensure that the Site is operated in a safe and secure manner, and that Waste, the Residual Waste and the Unacceptable Waste are properly handled, packaged or contained and stored so as not to pose any threat to the general public and the Site personnel.	Observed during site visit that waste is handled and stored inside. Waste areas are well labeled. Residual Waste is stored in the Residue Building.  Unacceptable waste is logged on the Unacceptable Waste Log form, indicating the item, truck ID, Transfer Station and Destination at the facility. The date removed, manifest #, hauler and receiver are also documented. No extreme odour reported on waste logs reviewed.
51	<b>Site Operations: Operating hours:</b> <b>ECA 4(1)(a)</b> The Site is approved to operate twenty four (24) hours per day three hundred and sixty five (365) days per year. <b>ECA 4(1)(b)</b> Notwithstanding Condition 4.(1)(a), Waste shall only be received at the Site and the Residual Waste shall only be transferred from the Site between 7:00 a.m. and 7:00 p.m. Monday to Saturday. No receipt of the Waste or transfer of the Residual Waste shall be undertaken on statutory holidays.	(b) Covanta Waste Screening Report - Tipping Floor and Customer Material records indicated that waste was only received at the Site between 7:00am and 7:00 pm Monday to Saturday.
52	<b>ECA 4(1)(c)</b> Emergency Receipt of Waste: (i) The Owner may receive Waste at the Site outside of the operating hours specified in Condition 4(1)(b), above, on an emergency basis only. (ii) Within twenty four (24) hours from the receipt of Waste outside of the approved receiving hours, the Owner shall notify, in writing, the District Manager that Waste was received outside of the approved receiving hours. (iii) Should there be complaints about Waste shipments outside of the approved hours, the Owner, in consultation with the District Manager, shall determine the cause of the complaint, propose appropriate abatement measures and implement the said measures upon receiving written concurrence from the District Manager within the time frame acceptable to the District Manager.	See item 51.
53	<b>ECA 4(2) Site Operations: Incoming Waste receipt:</b> (a) At the weigh scale, the Trained Personnel shall: (i) inspect the required documentation prior to acceptance of the incoming Waste at the Site; and (ii) inspect the incoming Waste with radiation detection equipment. (b) In the Tipping Building, the Trained Personnel shall: (i) visually inspect all incoming Waste being unloaded into the Waste pit; and (ii) once per hour, or as accepted by the District Manager, unload the incoming Waste on the tipping floor for a manual visual inspection and sorting of the incoming Waste. (c) The Owner shall only accept the incoming Waste that is delivered in vehicles that have been approved by the Ministry. (d) The Owner shall ensure that all unloading of incoming Waste at the Site takes place entirely within the confines of the Tipping Building.	Through discussion with the Scale House operator: (a) (i) the operator enters the waste delivery into the system as the truck arrives and the operator verifies that it is an approved supplier. The operator interviewed indicated that they just 'know' that the carrier is an approved vendor. In discussion with Covanta and the Region, there is an annual approved carrier process and the carriers and the truck ID numbers are documented in the PCScale program.  (ii) The radiation detectors scan truck; if there is an alarm, the operator asks the truck to re-pass detectors; if alarm persists, then check with hand held device to isolate location; if persists then load rejected. There were three records of rejected waste in 2022.  (b) (i) visual inspection of incoming waste on tipping floor once per hour as documented in Waste Screening Report - Tipping Floor (ii) DYEC Waste Screening Report - Tipping Floor, identifies truck ID, odour, unacceptable waste and sign off. (c) refer to (a) above. (d) unloading during site visit was conducted indoors with doors closed.

**Appendix D1  
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence <b>Apr 4-5, 2023</b>
54	<p><b>ECA 4(3) Site Operations: Unacceptable Waste handling:</b>            (a) In the event that waste that is not approved under this Certificate is inadvertently accepted at the Site, the Owner shall ensure that the Unacceptable Waste:            (i) is stored in a way that ensures that no adverse effects result from its storage;            (ii) is segregated from all other waste;            (iii) is handled and removed from the Site in accordance with the O. Reg. 347 and the EPA; and            (iv) is removed from the Site within 90 days of its receipt or as acceptable to the District Manager.            (b) The Owner shall ensure that all loading of the Unacceptable Waste into transport vehicles is carried out entirely within the confines of the Tipping Building.</p>	<p>2022 ECA Annual Report, Section 2.4 states that unacceptable waste is stored in a secure bermed area or dedicated cage outside the Tipping Floor. Based on an external fire safety inspection the MECP notified DYEC on June 11, 2018, to store empty compressed gas cylinders outside of the tipping floor in a secure cage.            4(3) (i-iii) SOP DYEC-REF-007 Unacceptable Waste Receiving, Handling, Storage and Disposal in place. Storage of unacceptable waste storage area observed during the site visit.            4(3) (b) SOP states that the loading of unacceptable waste into transport vehicles carried out entirely within the confines of the tipping building.</p>
55	<p><b>ECA 4(4) Waste Sorting:</b>            (a) The Trained Personnel shall remove the Bulky Unprocessable Items and Unacceptable Waste from the incoming Waste prior to charging of the Waste to the Boilers.            (b) All sorting of the incoming Waste at the Site shall be undertaken indoors, within the confines of the Tipping Building and/or the Refuse Building.</p>	<p>During the site visit unacceptable (bulky) waste was observed to be segregated and sorted in the Tipping Building and gas cylinders were stored just outside the Tipping Building bay door in a secure bin.             Residual burned tanks were also observed at end of Grizzly Building.</p>
56	<p><b>ECA 4(5)(a) Residual Waste Handling and Disposal:</b>            (a) (i) Except for transportation of the Residual Waste between the Grizzly Building and the Residue Building, the Owner shall ensure that all handling of the bottom ash and its segregated constituents, and of the fly ash, is undertaken within the confines of enclosed conveyors and enclosed buildings.            (ii) The Owner shall ensure that all loading of the Residual Waste into vehicles for its transport from the Site is carried out entirely within the confines of the Residue Building.</p>	<p>i) Observed enclosed conveyors and enclosed buildings during the site visit.            ii) Observed during the site visit.</p>
57	<p><b>ECA 4(5) Residual Waste Handling and Disposal:</b>            (b) (i) Different constituents of the Residual Waste shall not be comingled prior to the required compliance testing, unless all Residual Waste is to be disposed of at a Waste Disposal Site that is approved to accept hazardous waste.            (ii) The Owner shall ensure that the equipment used in handling of the hazardous wastes or that came in direct contact with the hazardous wastes is not used to handle other wastes.            (iii) Amended: The Owner may use the equipment that comes in contact with the hazardous wastes to handle other wastes provided that prior to such use, the equipment has been cleaned, as confirmed by visual inspections, to ensure the removal of any hazardous waste residues and to prevent cross contamination.</p>	<p>b)i) bottom and fly ash were tested separately.            ii-iii) Loader is used for bottom ash, fly ash, ferrous and non-ferrous. DYEC-REF-004 Residue Building Loader Cleaning Revision 1, November 9, 2020.</p>
58	<p><b>ECA 4(5) Residual Waste Handling and Disposal:</b>            (c) (i) Only haulers approved by the Ministry shall be used to transport the Residual Waste from the Site.            (ii) The Residual Waste shall be transported from the Site in appropriately covered vehicles that will not allow fugitive dust emissions to be emitted into the natural environment during the said transport.</p>	<p>(c) (i-ii) Covanta DYEC Customer/Materials Reports list the following companies for Residual Waste removal from Site:            Walker Environmental - Fly Ash            Modern Landfill - Bottom Ash            Triple M Metal - Residual Ferrous and Non-Ferrous            ii) The scale house operator interviewed in 2022 indicated that they check in-coming and outgoing trucks for evidence of obvious leaks or dripping waste. Observed only covered transport vehicles on-site.</p>
59	<p><b>ECA 4(5) Residual Waste Handling and Disposal:</b>            (d) Residual Waste generated at the Site shall be disposed of shall only be disposed of at an approved waste disposal site in accordance with the requirements in the EPA and the O. Reg. 347 or at a location with the appropriate jurisdictional approval or a license, if required.</p>	<p>2022 ECA Annual Report, Section 3.1 indicates that the bottom ash was transported to Modern Landfill in Model City, New York while fly ash was transported to Walker Industries' South Landfill in Thorold, Ontario. Both bottom and conditioned fly ash are mixed with soil and used as daily / interim cover.</p>
60	<p><b>ECA 4(5) Residual Waste Handling and Disposal:</b>            4.(5)(e) A maximum of 630 tonnes of the Residual Waste, limited to the bottom ash shall be stored in two (2) dedicated bunkers, located within the confines of the Residue Building, described in the Supporting Documentation. The storage duration is as follows:            (i) The storage duration is limited to a maximum of seven (7) days.            (ii) Should longer storage duration be required to accommodate the duration of the required compliance testing, a minimum of forty eight (48) hours before the storage extension is commenced, the Owner shall notify the District Manager of the required extension. The notification shall include the duration of the extension and the reasons.</p>	<p>2022 ECA Annual Report, Table 5 (daily maximum of 617 tonnes was reported in September 2022).            See Item 28 - Removed maximum storage duration - Amendment March 14, 2016.</p>
61	<p><b>ECA 4(6) Wastewater Management</b> (a) The Owner shall ensure that all wastewater generated at the Site is contained within enclosed buildings, tanks, pipes and conveyors at the Site and the approved outdoor Wastewater Settling Basin.</p>	<p>No process drains to the sanitary or storm sewers.</p>

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Item	Condition	Supporting Evidence Apr 4-5, 2023
62	<b>ECA 4(6) Wastewater Management</b> (b) The Owner shall ensure that all wastewater generated at the Site is collected in leak proof and sufficiently designed wastewater storage facilities: (i) Wastewater Holding Tank, to collect the continuous reject water flow from the Boiler make up water treatment system and the Boiler blowdown, having an approximate holding capacity of 100 cubic metres, located within the confines of the Boiler Building and venting to the atmosphere; and (ii) Wastewater Settling Basin, to collect the wastewater from the floor drains in the buildings at the Site, except for the Tipping Building and the Residue Building, the ash discharger overflow and drain water, the Boiler and turbine generator wash down water and the APC Equipment area wash down water, having an approximate holding capacity of 38 cubic metres, located outdoors, open to the atmosphere and equipped with a filter basket and an oil skimmer board.	See item 61 (b) Wastewater is collected in a settling basin that is equipped with a filter basket and oil skimmer board.  The settling basin was cleaned out and inspected by GFL on April 29, 2022 as per Work Clearance Permit. The settling basin was cleaned out and inspected by Covanta on October 27, 2022 as per Work Clearance Permit.
63	<b>ECA 4(6) Wastewater Management</b> (c) The wastewater pumps shall be located in the area designed in accordance with the Supporting Documentation to ensure that any potential leaks or drips are contained and directed to the Wastewater Settling Basin.	No change in 2022.
64	<b>ECA 4(6) Wastewater Management</b> (d) (i) The wastewater level in the Wastewater Holding Tank shall be monitored and controlled to ensure that the wastewater inflow to the Tank does not cause the Tank overflow. (ii) The wastewater level in the Wastewater Settling Basin shall be monitored and controlled to ensure that the atmospheric precipitation does not cause an overflow from the Basin.	i) observed during site visit ii) When required, portable frac tanks to pump overflow (required during shutdown), then wastewater is released back to settling basin when water level drops. Record of frac tank being on-site on October 14, 2022.  Wastewater Settling Basin is inspected during the daily Covanta inspection (Outdoor Environmental Checklist) for overflow. Sediment was removed from basin in April and October.
65	<b>ECA 4(6) Wastewater Management</b> (e) The Owner shall regularly empty, and clean as necessary, all sumps, wastewater storage/holding areas and equipment that are used to contain, collect and handling the wastewater generated at the Site.	Covanta identified that the sumps, drains and holding areas are emptied and cleaned out as required. A visual inspection is completed on a weekly basis.
66	<b>ECA 4(6)(f)</b> Should the Owner find it necessary to remove the wastewater from the Site, the wastewater shall only be disposed of at a Ministry approved site in accordance with the site's certificate of approval or be discharged to the sanitary sewer in accordance with the agreement with the municipality accepting the discharge.	No wastewater reportedly disposed from site in 2022.
67	<b>ECA 4(6)</b> (g) The floors of the Tipping Building and the Residue Building shall be sufficiently sloped to facilitate the flow of the wastewater generated from the floor cleaning activities and from the truck wash down towards the designated wastewater collection area.	Completed and no updates in 2022
68	<b>ECA 4(6)</b> (h) The Owner shall ensure that the Wastewater Settling Basin is regularly cleaned out and that it does not become a source of odour emissions.	No odour noted during site visit. See item 66.
69	<b>ECA 4(7)</b> All activities approved under this Certificate shall only be carried out by appropriately Trained Personnel.	Covanta Operator Qualification Program, Environmental Training Matrix and online training platform are used for training purposes.
70	<b>5. EQUIPMENT and SITE INSPECTIONS and MAINTENANCE Operation and Maintenance</b> (1) Prior to the receipt of the Waste at the Site, the Owner shall prepare and update as necessary, an Operation and Maintenance Manual for all the Equipment, the APC Equipment, the CEM Systems, the Works and any other equipment associated with managing of the Waste and with the control of environmental impacts from the Facility. The Manual shall be prepared in accordance with the written manufacturer's and/or supplier's specifications and good engineering practice. As a minimum, the Operation and Maintenance Manual shall specify: (a) operation procedures of the Equipment, the APC Equipment, the CEM Systems, the Works, and any other equipment associated with managing of the Waste and with the control of environmental impacts from the Facility, in accordance with manufacturers' recommendations and good engineering practices to achieve compliance with this Certificate, the EPA, the OWRA and their Regulations.	Procedures are updated as necessary. Digital copies are available in the Covanta Library (SharePoint).
71	(b) calibration procedures for the CEM Systems as required by this Certificate; (c) procedures for start up and shutdown, including Controlled Shutdown and Emergency Shutdown; (d) quality assurance procedures for the operation and calibration of the CEM Systems in accordance with 40 CFR 60, Appendix F or Report EPS 1/PG/7, as appropriate; (e) Waste receiving and screening procedures; (f) Waste, Rejected Waste and Residual Waste handling procedures; (g) testing and monitoring procedures as required by this Certificate.	Digital copies are available in the Covanta Library.
72	(h) maintenance and preventative maintenance procedures as required by this Certificate; (i) Facility inspection, including frequency of inspections, procedures; (j) procedure for handling complaints as required by this Certificate. (k) contingency measures to resolve upset conditions and/or minimize the environmental impacts from the Facility; (l) emergency response procedures, including procedures for dealing with power failure, fire, explosion, spills and any other potential emergencies; (m) procedures for record keeping activities as required by this Certificate; (n) description of the responsibilities of the Site personnel and the personnel training protocols; and (o) a list of personnel positions responsible for operation and maintenance, including supervisory personnel and personnel responsible for handling of the emergency situations, recording and reporting pursuant to the requirements of this Certificate, along with the training and experience required for the positions and a description of the responsibilities. (p) amended: all measures deemed necessary to prevent an occurrence of an adverse effect from the emergency storage of Waste.	h and i) Outside Environmental Checklist is completed daily. j) See Region EA and Public complaint SOP on-site. k, l) Emergency Action Plan/Fire Safety Plan, Revision 17 dated November 14, 2022. See Section 3 for SOPs m) Record Keeping Procedures - part of initial training n) Covanta roles and responsibilities and training requirements o) Covanta roles and responsibilities and training requirements for emergency situations p) See item 41

**Appendix D1**  
**Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence Apr 4-5, 2023
73	<b>ECA 5(2)</b> A copy of this Operations and Maintenance Manual shall be kept at the Site, be accessible to the Site personnel at all times and be updated, as required. The Operations and Maintenance Manual shall be available for inspection by a Provincial Officer upon request.	Operations and Maintenance Manual available on site and accessible to site personnel. One hardcopy was observed in the Control Room. They are also available on SharePoint site. Other SOP were viewed in the Scale House.
74	<b>ECA 5(3)</b> The Owner shall implement the operation, maintenance, preventative maintenance and calibration procedures set out in the Operations and Maintenance Manual required by this Certificate.	SOPs have been implemented related to operation, maintenance, preventative maintenance and calibration. Use PeopleSoft for tasks and tracking. Covanta use Sphera for reminders to complete environmental tasks.
75	<b>Critical Spare Parts ECA 5(4)</b> (a) The Owner shall prepare a list of critical spare parts, update this list annually or more frequently, if necessary, to ensure that this list is maintained up to date and shall be available for inspection by a Provincial Officer upon request. (b) The Owner shall ensure that the critical spare parts are available at the Site at all times or are immediately available from an off Site supplier.	Covanta DYEC List of Consumables, Equipment Listing as of December 31, 2022. Includes asset ID and description of equipment.  Covanta DYEC Inventory Stocking Report, Jan 23, 2023
76	<b>Inspections ECA 5(5)</b> Prior to receipt of the Waste at the Site, the Owner shall prepare a comprehensive written inspection program which includes inspections of all aspects of the Site's operations including, but not limited to the following: (a) buildings and the indoor waste storage facilities and presence of dust and odour and leaks in or near any openings, such as doorways, window, vent, louver or any other opening; (b) outdoor Residual Waste transport equipment, and the presence of dust and leaks at or near transfer points or the equipment seams; (c) the Equipment, the APC Equipment, the CEM Systems, the Works and any other equipment associated with managing of the Waste and with the control of environmental impacts from the Facility.	Weekly Environmental Site Inspection Form and Daily Outside Environmental Checklist were observed.
77	(d) spill containment areas, loading areas and the conditions around the Wastewater Settling Basin; (e) security fencing, gates, barriers and signs; (f) off site nuisance impacts such as odour, dust, litter, etc. (g) presence of storm water pooling at the Site; and (h) condition of the on Site roads for presence of leaks and drips from the waste delivery trucks or excessive dust emissions.	Weekly Environmental Site Inspection Form and Daily Outside Environmental Checklist were observed.
78	<b>Inspections ECA 5(6)</b> The inspections, except for the inspection of the Works, are to be undertaken daily by the Trained Personnel in accordance with the inspection program to ensure that the Facility is maintained in good working order at all times and that no off Site impacts are occurring. Any deficiencies detected during these regular inspections must be promptly corrected.	Weekly checklists - completed by Environmental Specialist, daily Outdoor Environmental Logs completed by the Utility Operator. Examples reviewed.  People Soft - schedule preventative maintenance, issues work orders and closes them out. Housekeeping requirements tracked through spreadsheet.
79	<b>Inspections and Maintenance of the Works ECA 5(7)</b> The Owner shall inspect the Works at least once a year and, if necessary, clean and maintain the Works to prevent the excessive build up of sediments and/or vegetation.	An annual inspection (Annual Sewage Works Inspection, November 1, 2022) is conducted in the fall of every year to complete a detailed inspection of the settling ponds. Including vegetation, sediment, structure, headwall, discharge points, etc.). Includes inspection of drains to East and West Storm Pond.
80	Removed extraneous duplicate reference from this Table (see item 85).	N/A
81	<b>6. PERFORMANCE REQUIREMENTS ECA 6(1)</b> The Owner shall, ensure that the Facility/Equipment is designed and operated in such a manner as to ensure that the following Performance Requirements are met: (a) the maximum 10 minute average concentration of odour at the most impacted Sensitive Receptor, resulting from the operation of the Facility/Equipment, calculated in accordance with the procedures outlined in the attached Schedule "B", shall not exceed 1 odour unit; (b) the noise emissions from the Facility shall comply with the limits set out in Ministry Publication NPC 205; (c) the vibration emissions from the Facility shall comply with the limits set out in Ministry Publication NPC 207.	6(1)(a) 2022 Odour Management & Mitigation Monitoring Report, Section 4.4 Source Odour Sampling. The maximum 10-minute average was 0.28 OU (2015), less than 1.0 OU as stated in Schedule B. (b and c) noise not required, see item 97
82	<b>ECA 6(2)</b> The Owner shall ensure that the Boilers and the associated APC Equipment and the CEM Systems are designed and operated in such a manner as to ensure that the following Performance Requirements are met: (a) (i) The temperature in the combustion zone of each Boiler shall reach a minimum of 1000 degrees Celsius (°C) for one second, prior to introduction of the Waste into the combustion chamber of the Boiler during the start up, and thereafter maintained during the entire thermal treatment cycle and subsequent shutdown until all Waste combustion is completed. (ii) Compliance with the minimum temperature requirement shall be demonstrated by direct measurement at the location where the combustion gases have achieved the residence time of one second at a minimum temperature of 1000°C (the Target Location) or by correlation of the required temperature of 1000°C for one second to the temperature measured downstream of the Target Location as proven by a method acceptable to the Director.	In 2022, the Performance Requirements were met in terms of combustion temperature. Minimum temperature was recorded as 1009°C.
83	<b>ECA 6(2)(b)</b> The concentration of residual oxygen in the Undiluted Gases leaving the combustion zone via the economizer outlet of each Boiler, as measured and recorded by the CEM System, shall not be less than 6 percent by volume on a dry basis.	There was no low oxygen level reported in 2022.
84	<b>ECA 6(2)(c)(i)</b> The operational target for the concentration of carbon monoxide in the Undiluted Gases leaving the combustion zone via the economizer outlet of each Boiler is 40 milligrams per dry cubic metre, as a 4 hour rolling average, normalized to 11 percent oxygen at a reference temperature of 25°C and a reference pressure of 101.3 kilopascals, as measured and recorded by the CEM System, for the period from and including initial commissioning of the facility to twelve months following the completion of the first Source Testing program.	Completed and no updates in 2022.

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**Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence Apr 4-5, 2023
85	<b>ECA 6(2)(c)</b> (ii) The 4 hour average concentration of carbon monoxide in the Undiluted Gases leaving the combustion zone via the economizer outlet of each Boiler, as measured and recorded by the CEM System, shall not be more than 40 milligrams per dry cubic metre, normalized to 11 percent oxygen at a reference temperature of 25oC and a reference pressure of 101.3 kilopascals, after the first twelve months following the completion of the first Source Testing program.	Completed and no updates in 2022.
86	<b>ECA 6(2)(d)</b> The emissions from the Boilers after those emissions have been controlled by the associated APC Equipment for discharge into the atmosphere via the Stack shall comply with the emission concentration limits listed in the attached Schedule "C", as measured by a CEM System or by Source Testing as applicable.	Emissions were below the limits in 2022.
87	<b>ECA 6(2)(e)</b> The Boilers shall include combustion air control systems, which are capable of automatically adjusting the distribution and the quantity of combustion air, in such a manner that changes in the Waste Processing Rate and/or Waste composition or irregularities in the loading and/or combustion shall not adversely affect the performance of the Boilers.	Observed and discussed with the operator on-site in the Control Room during the 2022 Operational Audit. Emergency shut-down procedure was also reviewed.
88	<b>ECA 6(2)(f)</b> The Boilers shall provide and maintain a high degree of gas turbulence and mixing in the combustion chamber. (g) The Boilers shall achieve the temperature, oxygen availability and turbulence requirements over the complete range of operating parameters, including feed rate, feed characteristics, combustion air, flue gas flow rate and heat losses. (h) The inlet temperature into each baghouse of the APC Equipment of the Boilers shall not be less than 120°C and not more than 185°C.	Observed boiler parameters on the operator's screens in the Control Room during the 2022 Operational Audit. Limits are set for SO <sub>2</sub> , HCL, NO <sub>x</sub> , HF, CO, O <sub>2</sub> dry, Baghouse Temperature and Combustion Temperature.  Noted that the carbon sensor on the control panel was in yellow 'warning' state. They are waiting for a new sensor. The parameter is still monitored on the APC additive screen (flow rate as indicator) and manually checked twice per shift on displays in plant (near Maintenance Shop) and documented in log book.  Confirmed that inlet temperature to each baghouse of the APC Equipment was between 120 to 185 oC during the site visit from the emission data posted to the DYEC website.
89	<b>ECA 6(3)</b> The Owner shall install and maintain visual and audible alarm systems to alert the Facility/Equipment operators of any potential deviation from the above Performance Requirements for parameters that are continuously monitored by applicable CEM Systems and shall forthwith take all reasonable actions to bring the Equipment/Facility into compliance with all Performance Conditions.	Visual and audible alarms will alert if Performance Requirements are out of compliance monitored by CEM System.
90	<b>ECA 6(4)</b> In the event that the CEM Systems indicate that emissions from the Boilers and the Stack exceed any Performance Requirements in the attached Schedule "C" for a continuous three (3) hour period, the Owner shall forthwith cut off all Waste feed into the affected Boiler and initiate an Emergency Shutdown, while maintaining a temperature of 1000°C, as practicable, in the combustion zone of the Boiler.	See Item 86.
91	<b>Residual Waste Compliance Criteria ECA 6(5)(a)</b> The Residual Waste generated at the Site and destined for a non hazardous waste disposal site in Ontario shall not meet any of the criteria from the definition of "hazardous waste" set out in the O. Reg. 347. b) The Residual Waste that meets any of the criteria from the definition of "hazardous waste" set out in the O. Reg. 347 shall be handled and disposed of in accordance with the LDR requirements set out in the EPA and the O. Reg. 347.	2022 ECA Annual Report, Section 3.1.1 states that the results demonstrate that the bottom ash met the "incinerator ash" definition from Regulation 347 and that it could be managed as a non-hazardous solid waste. Sampling data reviewed - quarterly sampling dates are February, June, September and November 2022.
92	<b>Residual Waste Compliance Criteria ECA 6(6)</b> The Residual Waste, limited to the bottom ash, destined for a non hazardous waste disposal site shall meet the definition of "incinerator ash" set out in the O. Reg. 347.	See Item 91
93	<b>TESTING, MONITORING and AUDITING</b> <b>Source Testing ECA 7(1)</b> The Owner shall perform annual Source Testing in accordance with the procedures and schedule outlined in the attached Schedule "E", to determine the rate of emission of the Test Contaminants from the Stack. The first Source Testing program shall be conducted not later than six (6) months after the Commencement Date of Operation of the Facility/Equipment and subsequent Source Testing program shall be conducted once (1) every calendar year there after.	Voluntary Source Testing was conducted by Ortech Consulting Inc. between May 16 and 19, 2022. The testing indicated that the Facility demonstrated compliance with all respective in-stack ECA limits.  Ortech Consulting Inc. completed an emission testing program from November 28 to December 2, 2022. The testing indicated that the Facility demonstrated compliance with all respective in-stack ECA limits.
94	<b>Continuous Monitoring ECA 7(2)</b> The Owner shall select, test and install appropriate CEM Systems and continuous recording devices in accordance with the requirements outlined in the attached Schedule "F" to conduct and maintain a program to continuously monitor, as a minimum, the following parameters prior to commencement of operation of the Boilers: (a) the temperature at one (1) second downstream of the combustion zone of each Boiler where most of the combustion has been completed and the combustion temperature is fully developed; (b) the inlet temperature of the gases into each baghouse of the APC Equipment of each Boiler; (c) the concentration of carbon monoxide, oxygen and organic matter (as methane) in the Undiluted Gases leaving the combustion zone via the economizer outlet of each Boiler; (d) the opacity and moisture content of the flue gas and the concentration of oxygen, nitrogen oxides, sulphur dioxide, hydrogen chloride, hydrogen fluoride and ammonia in the Undiluted Gases leaving the baghouse of the APC Equipment of each Boiler.	Observed online.  Emission sensor calibration (Audit) records (2 sensors) reviewed.  The low, medium and high FILTER AUDIT CALCULATIONS passed on annual report. February 5, 2022 daily calibration of Boiler 2 showed CO <sub>2</sub> output >1. First occurrence indicted by one 'x'. SOP DYEC-ENV-021 Daily Trace Reports describes procedure for daily calibration events.

**Appendix D1  
Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence <b>Apr 4-5, 2023</b>
95	<p><b>Long Term Sampling for Dioxins and Furans ECA 7(3)</b></p> <p>(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 APC Equipment associated with each Boiler. The performance of this sampling system will be evaluated during the annual Source Testing programs in accordance with the principles outlined by 40 CFR 60, Appendix B, Specification 4.</p> <p>(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.</p>	<p>2022 ECA Annual Report, Section 5.6 states that the samplers were operated to collect data during long-term sampling periods for performance evaluation. The performance was compared to the voluntary and compliance emission testing performed by Ortech detailed in Item 93.</p> <p>Additional reporting as a result of a council directive is conducted quarterly. Reports reviewed:</p> <p>DYEC Long-Term Sampling System Q1 report, January to March 2022 DYEC Long-Term Sampling System Q2 report, April to June 2022 DYEC Long-Term Sampling System Q3 Report, July to September 2022</p>
96	<p><b>Ambient Air Monitoring ECA 7(4)</b></p> <p>(a) The Regions shall develop and implement the Ambient Air Monitoring and Reporting Plan, in accordance with the requirements set out in the EA Approval and as determined to be acceptable by the Regional Director.</p> <p>b) The Regions shall report the results of the Ambient Air Monitoring program to the Regional Director in accordance with the Ambient Air Monitoring and Reporting Plan and in accordance with the requirements of Condition 14.</p> <p>c) The Regions shall post the Ambient Air Monitoring and Reporting Plan and the results of the Ambient Air Monitoring program on the Owner's web site for the Facility in accordance with the requirements of the EA Approval and Condition 15.</p>	<p>Ambient Air Quality Monitoring Plan, Stantec Consulting Ltd., May 8, 2012. MOECC letters of acceptance May 30, 2012 and June 5, 2012.</p> <p>Ambient Air Quality Monitoring Reports 2022:</p> <p>Q1 - Quarterly Ambient Air Quality Monitoring Report, RWDI, May 12, 2022 Q2 - Quarterly Ambient Air Quality Monitoring Report, RWDI, August 10, 2022 Q3 - Ambient Air Quality Monitoring Report, RWDI, November 11, 2022 Q4 - Ambient Air Quality Monitoring Report, RWDI, March 6, 2023 Posted on Regions website: <a href="https://www.durhamyorkwaste.ca/en/environmental-monitoring/ambient-air.aspx#2021-Ambient-Air-Reports">https://www.durhamyorkwaste.ca/en/environmental-monitoring/ambient-air.aspx#2021-Ambient-Air-Reports</a></p>
97	<p><b>Noise Monitoring Acoustic Audit ECA 7(5) revoked</b></p>	<p>A revised Noise Monitoring and Reporting Plan was submitted to the Ministry on June 27, 2017. Acknowledgement was received by Ministry on September 21, 2017. The February 24, 2016 amendment notice 4 revoked the requirement to conduct annual acoustic measurements.</p>
98	<p><b>Noise Monitoring Acoustic Audit 7(6) revoked</b></p>	<p>see Item 97</p>
99	<p><b>Residual Waste Testing ECA 7(7)</b></p> <p>(a) A minimum of six (6) months prior to the Commencement Date of Operation, the Owner shall submit to the Director for approval, a Testing Protocol for testing of the bottom ash for compliance with the criteria set out in the "incinerator ash" definition from the O. Reg. 347 and for testing of the Residual Waste for compliance with the criteria set out in this Certificate.</p> <p>(b) As a minimum, the Testing Protocol shall comply with the Ministry's regulatory requirements for sampling and testing of waste, including the requirements set out in the Ministry's document entitled "Principles of Sampling and Analysis of Waste for TCLP under Ontario Regulation 347", dated February 2002, as amended.</p>	<p>Complete and no updates in 2022.</p>
100	<p>(c) The Testing Protocol shall include the rationale for the proposed methods and the following:</p> <p>(i) a sampling protocol, including the proposed number of samples to be taken and their locations, to ensure that representative sample(s) are being tested for compliance with this Certificate;</p> <p>(ii) sample(s) handling and preserving procedures;</p> <p>(iii) analytical protocol for the applicable contaminants to ensure that appropriate analytical method(s) are being used for compliance testing required by this Certificate; and</p> <p>(iv) a testing protocol for the bottom ash during the Site commissioning period.</p> <p>(d) The Owner shall implement the Testing Protocol on the Commencement Date of Operation.</p>	<p>The MOECC approved the Ash Sampling and Testing Protocol dated June 2014 and was implemented on the Commencement Date of Operation, February 9, 2015.</p>
101	<p>(e) The Owner shall carry out the required bottom and fly ash compliance testing in accordance with the document entitled "Ash Sampling and Testing Protocol", listed in the attached Schedule.</p>	<p>Fly ash testing was not required in 2022; the next triennial sampling should occur in 2023. Bottom ash was sampled on a quarterly basis with a one-day sample program on February 15, June 13, September 13 and November 8, 2022. The 2022 ECA Report states that the bottom ash continues to meet the definition of 'incinerator ash'. Bottom Ash Test Checklist is used to document sampling.</p>
102	<p><b>Residual Waste Testing ECA 7(8)</b> For handling of the bottom ash as a solid non hazardous waste, the Owner shall follow the following schedule for compliance testing:</p> <p>(a) for the Site commissioning period, the bottom ash shall be tested in accordance with the Testing Protocol approved by the Director;</p> <p>(b) for the period following the Site commissioning period, the bottom ash shall be tested for the content of the combustible materials on an annual basis, until the compliance testing results indicate that the bottom ash meets the "incinerator ash" definition from the O. Reg. 347 for three (3) consecutive years, following which a triennial compliance testing event may be carried out;</p>	<p>a) completed and no updates in 2022 b) see item 101</p>



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Item	Condition	Supporting Evidence Apr 4-5, 2023
103	(c) should any annual or triennial compliance testing event indicate that the bottom ash does not meet the "incinerator ash" definition, prior to each of the next three (3) shipments from the Site, compliance testing of each of the three (3) shipments shall be carried out. Once three (3) consecutive tests re-establish compliance with the "incinerator ash" definition from the O. Reg. 347 and that the bottom ash does not exceed the Leachate Toxicity Criteria, the compliance testing schedule set out in Condition 7.(8)(b) may be resumed; and (d) should the results of any compliance testing of the bottom ash indicate that the concentrations of the leachate toxic contaminants in the bottom ash equal to or exceed the Leachate Toxicity Criteria, the bottom ash shall be handled as a hazardous waste. Once three (3) consecutive tests re-establish that the bottom ash does not exceed the Leachate Toxicity Criteria, the bottom ash compliance testing schedule set out in Condition 7.(8)(b) may be resumed.	See item 101.
104	<b>7 (9) (a)</b> For handling of the bottom ash as a hazardous waste and for handling of the fly ash, prior to final disposal at a hazardous waste landfill site in Ontario, the Owner shall undertake any sampling and testing that would be required to comply with the LDR requirements set out in the EPA and the O. Reg. 347.	See item 101.
105	<b>ECA 7(9)(b)</b> The Owner shall follow the following schedule for compliance testing: (i) prior to each of the first three (3) shipments of the ash from the Site, the ash shall be tested so that for the compliance with the LDR requirements can be demonstrated; (ii) following the three (3) initial compliance testing events, the ash shall be tested on an annual basis, until the compliance testing results indicate that the ash meets the LDR requirements during the three (3) consecutive years, following which a triennial compliance testing may be carried out; and (iii) should any annual or triennial compliance testing event indicate that the ash does not meet the LDR requirements, prior to next three (3) shipments from the Site, compliance testing of each of the three (3) shipments shall be carried out. Once three (3) consecutive tests re-establish compliance with the LDR requirements, the compliance testing schedule set out in Condition 7.(9)(b)(ii) may be resumed.	See item 101.
106	<b>Soil Testing: ECA 7(10)</b> (a) Within one hundred and twenty (120) days from the date of this Certificate, the Regions shall undertake the soil testing in accordance with the Soil Testing Plan required by this Certificate. (b) The soil testing shall be repeated every three (3) years or as agreed upon in writing by the Regional Director.	DYEC 2020 Soil Testing Report, RWDI, October 20, 2020 indicates sampling was conducted on August 19, 2020. The next soil sampling will take place in August 2023.
107	<b>Disposal of Residual Waste</b> <b>ECA 7(11)</b> The Owners shall ensure that no portion of the Residual Waste undergoing compliance testing is transferred from the Site until the results of the compliance testing required by this Certificate demonstrate compliance with the relevant Ministry's requirements. <b>ECA 7(12)</b> Bottom ash that is not a hazardous waste, as defined in the O. Reg. 347, may be disposed of at an approved non hazardous waste landfill site or at a site approved to accept such waste by an appropriate government agency of equivalent jurisdiction. <b>ECA 7(13)</b> Residual Waste shall be treated to comply with the LDR requirements set out in the EPA and the O. Reg. 347 prior to disposal of at an approved hazardous waste landfill site or at a site approved to accept such waste by an appropriate government agency of equivalent jurisdiction.	See item 101.
108	<b>Groundwater and Surface Water Monitoring</b> <b>ECA 7(14)</b> (a) The Regions shall develop and implement the Groundwater and Surface Water Monitoring Plan, in accordance with the requirements set out in the EA Approval and as determined to be acceptable to the Regional Director. (b) The Regions shall report the results of the Groundwater and Surface Water Monitoring program to the Regional Director and to the Director in accordance with the schedule set out in the EA Approval and in accordance with the requirements of Condition 14. (c) The Regions shall post the Groundwater and Surface Water Monitoring Plan and the results of the Groundwater and Surface Water Monitoring program on the Owner's web site for the Facility in accordance with the requirements of the EA Approval and Condition 15.	a) Groundwater and Surface Water Monitoring Plan, Stantec, September 14, 2011 (submitted to MOECC September 15, 2011). MOECC letters of acceptance October 14, 2011. Request to MOECC for Change to Surface Water Monitoring Program, submitted April 29, 2016. MOECC letter of acceptance May 17, 2016. Ministry approved reduction in GW sampling frequency on May 7, 2019. b) 2021 Annual Groundwater Surface Water Annual Report, RWDI, April 27, 2022 c) posted on web site: <a href="https://www.durhamyorkwaste.ca/en/environmental-monitoring/groundwater-and-surface-water.aspx#2020">https://www.durhamyorkwaste.ca/en/environmental-monitoring/groundwater-and-surface-water.aspx#2020</a>  All on-site monitoring wells were observed to be locked in 2022.
109	<b>ECA 8 NUISANCE IMPACT CONTROL and HOUSEKEEPING</b> Odour Management (1) (a) The Owner shall maintain a negative air pressure atmosphere in the Tipping Building at all times to contain any potential odours within the confines of the Tipping Building. (b) (i) Once per year, or as required by the District Manager, the Owner shall undertake a test to measure the worse case scenario negative air pressure atmosphere throughout the Tipping Building, while the activities approved in this Certificate are carried out in the Tipping Building. (ii) Notwithstanding the requirements set out in Condition 8.(1)(b)(i), the Owner shall install sufficient instrumentation to measure the air flow into the Boilers and demonstrate that adequate air flow is maintained to maintain a negative air pressure atmosphere throughout the Tipping Building. (c) In the event that adequate negative air pressure cannot be maintained, the Owner shall implement any necessary additional odour containment and control measures, including, but not necessarily limited to, those in the required Contingency and Emergency Response Plan.	2022 Odour Management and Mitigation Monitoring Report, Covanta, November 2022: "regular maintenance and inspection activities are performed to ensure that doors and roof vents are closed and that the building envelope remains in good condition."  Reviewed Weekly Environmental Checklist.

**Appendix D1  
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Item	Condition	Supporting Evidence <b>Apr 4-5, 2023</b>
110	<p><b>ECA 8(2)</b> The Owner shall ensure that the entrance and exit doors into the Tipping Building, the Residue Building and the Grizzly Building are kept closed at all times except to permit the entry or exit of the respective waste transport vehicles and waste handling equipment into and out of these Buildings.</p> <p>(3) The Owner shall ensure that, at all times, the air from the Tipping Building, the Residue Building, the Grizzly Building and from the Equipment is exhausted through an appropriate and fully functional APC Equipment approved by this Certificate.</p> <p>(4) The Owner shall undertake appropriate housekeeping activities, including regular cleaning of the tipping floor to control potential sources of fugitive odour emissions.</p> <p>(5) The Owner shall ensure that no Waste handling equipment or empty storage containers are stored outside, unless they have been washed to prevent fugitive odour emissions.</p>	<p>8(2) All doors were observed to be closed except for when receiving trucks.</p> <p>8(3) Observed during site visit - The daily and quarterly calibrations of the APC sensors were reviewed and the monthly and biannual PMs of the APC sensors were reviewed. SOP DYEC-ENV-021 Daily Trace Reports describes procedure for daily calibration events.</p> <p>8(4) Interior of tipping floor was observed to be well maintained.</p> <p>8(5) No waste handling equipment or empty storage containers were observed to be stored outside.</p>
111	<p><b>ECA 8 (6)</b> The Owner shall regularly clean all equipment and storage areas that are used to handle, process and store waste at the Site, including the surfaces of the outdoor spill containment areas, as required.</p> <p>(7) (i) Prior to the receipt of Waste at the Site, the Owner shall provide documentation which outlines the testing carried out by a licensed structural engineer to confirm the effectiveness of the containment in the buildings, conveyors and tanks and silos at the Site.</p> <p>(ii) The testing shall be carried out and repeated as directed by the District Manager in accordance with the test protocol prepared in consultation with and approved by the District Manager.</p> <p>(iii) These tests shall be repeated as directed or agreed by the District Manager.</p> <p>(8) The Owner shall prepare and implement an Odour Management and Mitigation Plan in accordance with the requirements set out in the EA Approval and as determined to be acceptable to the Regional Director.</p>	<p>8(6) Weekly Environmental Site Inspection Form and Outside Environmental Checklist</p> <p>8(7) (i-iii) no updates in 2022</p> <p>8(8) Odour Management and Mitigation Plan in place. 2022 Odour Management &amp; Mitigation Monitoring Report, November 2022</p>
112	<p>ECA 8(9) (a) In addition to the requirements set out in the EA Approval, the Odour Management and Mitigation Plan shall include the following:</p> <p>(i) identification of all potential sources of odorous emissions;(ii) description of the preventative and control measures to minimize odorous emissions from the identified sources;</p> <p>(ii) description of the preventative and control measures to minimize odorous emissions from the identified sources;</p> <p>(iii) procedures for the implementation of the Odour Management and Mitigation Plan;</p> <p>(iv) inspection and maintenance procedures to ensure effective implementation of the Odour Management and Mitigation Plan; and</p> <p>(v) procedures for verification and recording the progress of the implementation of the Odour Management and Mitigation Plan.</p> <p>(b) The Owner shall continue to submit an updated Odour Management and Mitigation Plan until such time as the Regional Director notifies the Owner in writing that further submissions are no longer required.</p>	<p>Odour Management and Mitigation Plan, Golder, Issued August 2011 and Revised December 2014</p> <p>(i) Section 4.1</p> <p>(ii) Section 4.4</p> <p>(iii) Section 4.5</p> <p>(iv) Section 5.0</p> <p>v) Section 6.0</p> <p>(b) Acceptance letter from MOECC, August 21, 2012, regarding Odour Management and Mitigation Plan</p>
113	<p><b>ECA 8(10) Vehicles and Traffic</b></p> <p>(a) The Owner shall ensure that all vehicles transporting waste to and from the Site are not leaking or dripping waste when arriving at or leaving the Site.</p> <p>(b) Should the Owner become aware that the truck(s) delivering waste to the Site have leaked wastewater on the municipal roadways, the Owner shall immediately report the violation to the owner of the vehicle(s) and to the District Manager.</p> <p>(c) The Owner shall ensure that the exterior of all vehicles delivering Waste to the Site or hauling waste from the Site is washed prior to the trucks' departure from the Site, if necessary.</p> <p>(d) Any necessary truck washing shall occur only in the designated wash down area of the Tipping Building or the Residue Building.</p>	<p>a) None observed during site visit. The Scale House operator interviewed indicated that they visually check trucks upon arrival and departure for signs of leaking.</p> <p>See also note above about visual instruction to drivers.</p> <p>b) 2022 hydraulic leak from truck to the tipping floor occurred on September 15, 2022 but no leak occurred off site (see incident report 22-08).</p> <p>c,d) Washing not observed during site visit.</p>
114	<p><b>ECA 8(11)</b> The Owner shall ensure that there is no queuing or parking of vehicles that are waiting to enter the Site on any roadway that is not a distinct part of the Site.</p>	<p>Did not observe queuing or parked vehicles waiting to enter the site during the site visit.</p>
115	<p>ECA 8(12) Litter The Owner shall:</p> <p>(a) take all practical steps to prevent the escape of litter from the Site;</p> <p>(b) pick up litter around the Site on a daily basis, or more frequently if necessary; and</p> <p>(c) if necessary, erect litter fences around the areas causing a litter problem.</p>	<p>Very little litter (3 pieces) were observed around the site on April 4, 2023.</p>
116	<p><b>ECA 8(13) Dust</b> The Owner shall ensure that all on site roads and operations/yard areas are regularly swept/washed to prevent dust impacts off Site.</p>	<p>Roadways were dry but the surrounding grass was wet at the time of the site visit on April 4, 2023; there were no visual dust impacts noted.</p>
117	<p><b>ECA 8(14) Vermin and Vectors</b></p> <p>The Owner shall:</p> <p>(a) implement necessary housekeeping procedures to eliminate sources and potential sources of attraction for vermin and vectors; and</p> <p>(b) hire a qualified, licensed pest control professional to design and implement a pest control plan for the Site. The pest control plan shall remain in place, and be updated from time to time as necessary, until the Site has been closed and this Certificate has been revoked.</p>	<p>There are 43 exterior stations and 23 interior stations, based on the 2022 Monthly Pest Control Status Reports. Pest control bait stations observed throughout the facility, including exterior to the Grizzly Building and scale house.</p> <p>One unit outside on the west side of the Scale House was broken and open.</p>
118	<p><b>Visual Screening ECA 8(15)</b> The Owner shall provide visual screening for the Site in accordance with the documentation included in the attached Schedule "A".</p>	<p>Municipality of Clarington still needs to sign off on tree installation. The trees have been installed but continue to die-off; this has been an on-going issue. The type of tree that was approved by Municipality does not suit the area.</p> <p>The Regions Climate Change Office is now working with Trees for Life on a tree planting campaign at the facility, including the east boundary.</p>

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Item	Condition	Supporting Evidence Apr 4-5, 2023
119	<p><b>9. STAFF TRAINING ECA 9(1)</b>            (a) The Owner shall ensure that all operators of the Site are trained with respect to the following, as per the specific job requirements of each individual operator:            (i) terms and conditions of this Certificate and the requirements of the EA Approval;            (ii) operation and management of the Site, or area(s) within the Site, as per the specific job requirements of each individual operator, and which may include procedures for receiving, screening and identifying Waste, refusal, handling, processing and temporarily storing wastes, operation of the Equipment, the APC Equipment, the CEM System and the Works;            (iii) testing, monitoring and operating requirements; (iv) maintenance and inspection procedures;</p>	No change in 2022.
120	<p>(v) recording procedures;            (vi) nuisance impact control and housekeeping procedures;            (vii) procedures for recording and responding to public complaints;            (viii) an outline of the responsibilities of Site personnel including roles and responsibilities during emergency situations;            (ix) the Contingency and Emergency Response Plan including exit locations and evacuation routing, and location of relevant equipment available for emergency situations;            (x) environmental, and occupational health and safety concerns pertaining to the wastes to be handled; (xi) emergency first aid information; and            (xii) relevant waste management legislation and regulations, including the EPA, the OWRA, the O. Reg. 347, the O. Reg. 419/05 and the Ministry guidelines affecting thermal treatment facilities.</p>	See item 119.
121	<p><b>ECA 9(2)</b> The Owner shall ensure that all personnel are trained in the requirements of this Certificate relevant to the employee's position:            (a) upon commencing employment at the Site in a particular position;            (b) whenever items listed in Condition 9.(1) are changed or updated; and            (c) during the planned refresher training.</p>	See item 119.
122	<p><b>10. COMPLAINTS / ODOUR CONTAMINANT EMISSIONS RESPONSE PROCEDURE ECA 10(1)</b> The Owner or a designated representative of the Owner shall be available to receive public complaints caused by the operations at the Site twenty four (24) hours per day, seven (7) days per week.</p>	Online Feedback Form, email or telephone number as per website are available twenty-four hours per day, seven days per week.
123	<p><b>ECA 10(2)</b> If at any time, the Owner or the Ministry receives a complaint or the Owner or the Provincial Officer detects an emission of odour or any contaminant, (Emission Event), from the Site, in addition to the requirements set out in the EA approval, the Owner shall record all relevant information in the computerized tracking system and shall respond to the complaint/Emission Event according to the following procedure:</p>	<p>There were four complaints documented at the facility in 2022: May 11, June 6, August 2 and September 7</p> <p>Records indicate that the MECP was notified of the investigation within three business days.</p>
124	<p><b>Step 1: Record of Complaint/Emission Event ECA 10 (2)(a)</b>            (i) The Owner shall record each complaint/Emission Event and each record shall include the following:            (A) name, address and the telephone number of the complainant, if known; (B) time and date of the complaint/Emission Event; (C) details of the complaint; and            (ii) After the complaint/Emission Event has been recorded in the tracking system, the Owner shall immediately report to the District Manager by phone or e mail during office hours and to the Ministry's Spills Actions Centre at 1 800 268 6060 after office hours on the receipt of the complaint or occurrence of the Emission Event.</p>	See item 123.
125	<p><b>Step 2: Investigation and Handling of Complaint/Emission Event ECA 10(2)(b)</b>            The Owner shall immediately initiate investigation of the complaint/Emission Event. As a minimum, the investigation shall include the following: (i) determination of the activities being undertaken at the Site at the time of the complaint/Emission Event;            (ii) meteorological conditions including, but not limited to the ambient temperature, approximate wind speed and its direction.            (iii) determination if the complaint is attributed to activities being undertaken at the Site and if so, the possible cause(s) of the complaint/Emission Event; and            (iv) determination of the remedial action(s) to address the cause(s) of the Complaint/Emission Event, and the schedule for the implementation of the necessary remedial action(s).</p>	See item 123.
126	<p><b>ECA 10(2)(c)</b> The Owner shall respond to the complainant, if known, and the response shall include the results of the investigation of the Complaint, the action(s) taken or planned to be taken to address the cause(s) of the Complaint, and if any follow up response(s) will be provided.            (d) Upon completed investigation of the Complaint/Emission event, the Owner shall, within three (3) business days, submit a report to the District Manager on the Complaint, on the action(s) taken or planned to be taken to address the cause(s) of the Complaint and on all proposed action(s) to prevent recurrence of the Complaint/Emission Event in the future.</p>	See item 123.
127	<p><b>ECA 10(3)</b> If, in the opinion of the District Manager, failure of the APC Equipment and/or any other process or equipment upset or malfunction results in off site Complaint/Emission Event, confirmed by the Owner or a Provincial Officer of the Ministry, the Owner shall, immediately upon notification from the District Manager, implement any necessary additional control measures, including, but not necessarily limited to, those in the Contingency and Emergency Response Plan required by this Certificate.</p>	N/A no equipment upset or malfunction related to Complaint/Emission event in 2022.

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Item	Condition	Supporting Evidence <b>Apr 4-5, 2023</b>
128	<b>ECA 10(4)</b> If the District Manager deems the additional control measures taken as per condition 10.(3) to be unsuitable, insufficient or ineffective, the District Manager may direct the Owner, in writing, to take further measures to address the noted failure, upset or malfunction including pursuant to section 39 of the EPA requiring a reduction in the receipt of Waste, cessation of the receipt of Waste, removal and off site disposal of Waste from the Tipping Building as well as making repairs or modifications to equipment or processes.	See item 127.
129	<b>11. CONTINGENCY and EMERGENCY RESPONSE PLAN</b> <b>ECA 11 (1)(a)</b> The Owner shall develop and implement a Contingency and Emergency Response Plan in accordance with the requirements set out in the EA Approval. (b) Notwithstanding the requirements set out in the EA Approval, the Contingency and Emergency Response Plan shall be prepared in consultation with the District Manager or designate, the local Municipality and the Fire Department. <b>ECA 11(2)</b> In addition to the requirements set out in the EA Approval, the Contingency and Emergency Response Plan, as a minimum, shall include the following: (a) the Site plan clearly showing the equipment layout and all storage areas for wastes and reagents.	11(1)(a) Spill Contingency & Emergency Response Plan, January 13, 2014 (submitted January 29, 2014). Completed as a pre-condition requirement. 11(1)(b) Section 13 Document Review 11(2)(a) Appendix A Equipment layout and all storage areas for wastes and reagents  ECA Notice No. 1 (Issued August 12, 2014) included the Spill Contingency and Emergency Response Plan.  A revised version of the DYEC Spill Contingency and Emergency Response Plan Revision #1, December 18, 2020 was submitted to the Ministry on March 30, 2021 and approved by the MECP on June 28, 2021. 11(2)(a) Appendix A and B.  Spill response training was completed for 37 COVANTA workers in 2022. This training included new process regarding transfer from Jerry Cans. EAP training records were verified for Control Room Operator and Scale House attendant. Both were completed.
130	<b>ECA 11 (2)(b)</b> a list of Site personnel responsible for the implementation of the contingency measures and various emergency response tasks and their training requirements; <b>ECA 11 (2)(c)</b> a list of equipment and materials required for the implementation of the contingency measures and the emergency situation response; <b>ECA 11 (2)(d)</b> maintenance and testing program for equipment required for the implementation of the contingency measures and the emergency situation response; <b>ECA 11 (2)(e)</b> procedures to be undertaken as part of the implementation of the contingency measures and the emergency situation response; <b>ECA 11 (2)(f)</b> names and telephone numbers of waste management companies available for emergency response.	11(2)(b) Sections 2.1, 3.4 11(2)(c) Section 4 11(2)(d) Section 4.7 11(2)(e) Sections 5 and 6 11(2)(f) Appendix C
131	<b>ECA 11 (2)(g)</b> notification protocol, with names and telephone numbers of persons to be contacted, including the Owner, the Site personnel, the Ministry of the Environment Spills Action Centre and the York Durham District, the local Fire and Police Departments, the local Municipality, the local Medical Officer of Health, and the Ministry of Labour; <b>ECA 11 (2)(h)</b> procedures and actions to be taken should the incoming Waste not meet the applicable quality criteria specified in this Certificate; <b>ECA 11 (2)(i)</b> procedures and actions to be taken should the outgoing Residual Waste fail to meet the criteria specified in this Certificate; <b>ECA 11 (2)(j)</b> procedures and actions to be taken should the current disposal options for the outgoing Residual Waste become unavailable; <b>ECA 11 (2)(k)</b> design of the contingency measure, procedures and actions should the emissions from the Site, including the fugitive odour/dust emissions, cause occurrences of public Complaints; <b>ECA 11 (2)(l)</b> procedures and actions to be taken should the Owner be unable to maintain the negative pressure in the Tipping Building; <b>ECA 11 (2)(m)</b> procedures and actions to be taken should the occurrence of Complaints require the Owner to suspend the waste processing activities at the Site.	11(2)(g) Section 7 and Appendix C 11(2)(h) Sections 6.3 and 6.4 11(2)(i) Section 6.6 11(2)(j) Section 6.6 11(2)(k) Section 7.1 11(2)(l) Section 6.8 11(2)(m) Section 6.5
132	<b>ECA 11 (2)(n)</b> identification and risk assessment of all reasonably foreseeable incidents that may result in a discharge into the natural environment of any contaminant in an amount, concentration or level in excess of that prescribed by the Regulations and/or imposed by this Certificate, including but not limited to: (i) a breakdown of the Facility/Equipment or part of the Facility/Equipment, including the APC Equipment and the CEM Systems associated with the Boilers; (ii) CEM Systems indicate that the Boilers and associated APC Equipment have been out of compliance with the Performance Requirements; (iii) any change in process parameters which may result in non compliance with the Performance Requirements; (iv) power failure resulting in the use of the Emergency Diesel Generator or Total Power Failure; and (v) description of the preventative and control measures to minimize the occurrence or impacts of the above incidents; and	11(2)(n) Section 3.1 11(2)(n)(i) Section 6 11(2)(n)(ii) Section 6.1 11(2)(n)(iii) Section 6.1 11(2)(n)(iv) Sections 3.1 and 5.5 11(2)(n)(v) Section 3.1
133	(vi) procedures for corrective measures and timelines to take to address the above incidents in a timely manner to effectively prevent or minimize the discharge of any contaminant into the natural environment and continue to maintain compliance with the EPA, the Regulations and this Certificate, including procedures for Waste Processing Rate reduction, waste feed cut off, Controlled Shutdown or Emergency Shutdown of the Boilers as applicable.	11(2)(n)(vi) Sections 5 and 6

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Item	Condition	Supporting Evidence <b>Apr 4-5, 2023</b>
134	<p><b>ECA 11 (3)</b> The Owner shall submit the finalized Contingency and Emergency Response Plan to the Director a minimum of one hundred and twenty (120) days prior to the Commencement Date of Operation, for approval. <b>ECA 11 (4)</b> An up to date version of the Contingency and Emergency Response Plan shall be kept at the Site at all times, in a central location available to all staff, and it shall be available for inspection by a Provincial Officer upon request.</p> <p><b>ECA 11 (5)</b> The Owner shall ensure that the names and telephone numbers of the persons to be contacted in the event of an emergency situation are kept up to date, and that these numbers are prominently displayed at the Site and at all times available to all staff and emergency response personnel.</p> <p><b>ECA 11 (6)</b> The Contingency and Emergency Response Plan shall be reviewed on a regular basis and updated, as necessary. The revised version of the Contingency and Emergency Response Plan shall be submitted to the local Municipality and the Fire Department for comments and to the District Manager for comments and concurrence.</p> <p><b>ECA 11 (7)</b> The Owner shall implement the recommendations of the updated Contingency and Emergency Response Plan, immediately upon receipt of the written concurrence from the District Manager.</p>	<p>11(3) Spill Contingency &amp; Emergency Response Plan, January 13, 2014 (submitted January 29, 2014).</p> <p>11(4) A revised version of the DYEC Spill Contingency and Emergency Response Plan Revision #1, December 18, 2020 was submitted to the Ministry on March 30, 2021 and accepted by the MECP on June 28, 2021.</p> <p>11(5) Emergency contact list included in Spill Contingency and Emergency Response Plan.</p> <p>11(6) See ECA 11(4) above</p> <p>11(7) ECA Notice No. 1 (Issued August 12, 2014) included the Spill Contingency and Emergency Response Plan and updated Appendix A</p>
135	<p><b>ECA 11(8)</b> Containment evaluations performed under the Spill Contingency and Emergency Response Plan shall be conducted by the Owner in accordance to procedures agreed by the District Manager pursuant to Conditions 8.(7)(i),(ii) and (iii).</p>	See item 134.
136	<p><b>ECA 12. EMERGENCY SITUATION RESPONSE and REPORTING</b></p> <p>(1) The Owner shall immediately take all measures necessary to contain and clean up any spill or leak which may result from the operation at this Site and manage any emergency situation in accordance with the Contingency and Emergency Response Plan.</p> <p>(2) The Owner shall ensure that the equipment and materials listed in the Contingency and Emergency Response Plan are immediately available at the Site, are in a good state of repair, and fully operational at all times.</p> <p>(3) The Owner shall ensure that all Site personnel responsible for the emergency situation response are fully trained in the use of the equipment and related materials, and in the procedures to be employed in the event of an emergency.</p> <p>(4) All Spills as defined in the EPA shall be immediately reported to the Ministry's Spills Action Centre at 1 800 268 6060 and shall be recorded in the log book as to the nature of the emergency situation, and the action taken for clean up, correction and prevention of future occurrences.</p>	<p>12</p> <p>(2) As per the Covanta DYEC Emergency Action Plan/Fire Safety Plan.</p> <p>(3) Training on the Covanta DYEC Emergency Action Plan/Fire Safety Plan occurs annually.</p> <p>(4) There were no reportable spills documented in 2022. In 2022, one spill was reported to the MECP as a precautionary measure. The MECP confirmed that the spill was exempt from reporting requirements.</p>
137	<p><b>ECA 13. SUBMISSIONS to the REGIONAL DIRECTOR or DISTRICT MANAGER</b></p> <p>(1) The Owner shall notify the District Manager in writing, at least six (60) days prior to the scheduled date for the first receipt of Waste at the Site, as to whether or not the construction of the Facility has been carried out in accordance with this Certificate to a point of Substantial Completion.</p> <p>(2) (a) The Owner shall forthwith notify the District Manager and the Spills Action Centre by telephone, when any of the following incidents occur that may result in a discharge into the natural environment of any contaminant in an amount, concentration or level in excess of that prescribed by the Regulations and/or imposed by this Certificate:</p> <p>(i) CEM Systems indicate that the Boilers and associated APC Equipment have been out of compliance with the Performance Requirements triggering a Waste Processing Rate Reduction, Waste Feed cut off, Controlled Shutdown or Emergency Shutdown as specified in the Emergency Response and Contingency Plan;</p> <p>(ii) failure of the APC Equipment associated with the Boilers; and</p> <p>(iii) power failure resulting in the use of the emergency diesel generator or Total Power Failure.</p>	<p>1) Complete and no update for 2022.</p> <p>2) None reported for 2022</p>
138	<p><b>13 (2) (b)</b> In addition to fulfilling the notification requirements from the EPA, the Owner shall prepare and submit a written report to the District Manager with respect to any of the above said occurrences, within five (5) calendar days of the occurrence, in the following format:</p> <p>(i) date of the occurrence;</p> <p>(ii) general description of the occurrence; (iii) duration of the occurrence;</p> <p>(iv) effect of the occurrence on the emissions from the Facility;</p> <p>(v) measures taken to alleviate the effect of the occurrence on the emissions from the Facility; and</p> <p>(vi) measures taken to prevent the occurrence of the same or similar occurrence in the future.</p>	None in 2022
139	<p><b>ECA 13. SUBMISSIONS to the REGIONAL DIRECTOR or DISTRICT MANAGER CONTINUED</b></p> <p>(3) Should a Spill, as defined in the EPA, occur at the Site, in addition to fulfilling the requirements from the EPA and applicable regulations, the Owner shall submit to the District Manager a written report within three (3) calendar days outlining the nature of the Spill, remedial measure taken and the measures taken to prevent future occurrences at the Site.</p> <p>(4) (a) Within ninety (90) days from the date of this Certificate, the Regions shall prepare and submit to the District Manager for concurrence, a Soil Testing Plan to monitor the impact of the Site operations at the locations where the ambient air monitoring is proposed by the Owner in accordance with the requirements set out in the EA Approval.</p>	<p>3) See item 148</p> <p>4 a) DYEC Soils Testing Plan, Revision 3, March 7, 2014 and updated by DYEC Soils Testing Plan, Revision 4, July 10, 2020</p>
140	<p>(b) (i) This Plan shall ensure that representative samples of the soil to be tested are collected in sufficient numbers and that the samples are properly preserved and tested so that reliable data on the soil characteristics is collected.</p> <p>(ii) As a minimum, the Plan shall include testing for cadmium, lead, chromium, nickel, cobalt, copper, molybdenum, selenium, zinc and mercury, Dioxins and Furans.</p> <p>(iii) This Plan shall comply with the Ministry's regulatory requirements for sampling and testing of soil and it shall include the rationale for the proposed methods.</p> <p>(iv) This Plan be kept at the Site at all times and be available for inspection by a Provincial Officer upon request.</p>	See item 139.

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Item	Condition	Supporting Evidence <b>Apr 4-5, 2023</b>
141	<p><b>ECA 14. RECORDS KEEPING</b></p> <p>(1) Any information requested by the Ministry concerning the Facility and its operation under this Certificate, including, but not limited to, any records required to be kept by this Certificate, shall be provided to the Ministry, upon request, in a timely manner.</p> <p>(2) The Owner shall retain, for a minimum of seven (7) years from the date of their creation, except as noted below, all reports, records and information described in this Certificate.</p>	<p>1) Quarterly meeting are conducted with the Region, Covanta and the MECP. Agenda follows TOC of annual report.</p> <p>2) Records were available for review.</p>
142	<p><b>Daily Activities</b></p> <p>(3) The Owner shall maintain an on Site written or digital record of activities undertaken at the Site. All measurements shall be recorded in consistent metric units of measurement. As a minimum, the record shall include the following:</p> <p>(a) date of record and the name and signature of the person completing the report; (b) quantity and source of the incoming Waste received at the Site;</p> <p>(c) records of the estimated quantity of Waste thermally treated in the Boilers;</p> <p>(d) quantity of the Unacceptable Waste received at the Site by the end of the approved Waste receipt period and the type(s) of the Unacceptable Waste received;</p>	<p>a-b) Scale House Operators send out the Daily Customer/Material Report summarizing inbound and outbound tickets, truck ID, weight, broken down by MSW Durham, MSW York, bottom ash, fly ash, ferrous, non-ferrous. Data is entered directly into the on-line system, that generates the report.</p> <p>c) Covanta Production Activities and Data - reports the monthly refuse received (by Region), processed (by unit), bypassed, reagents used, residual wastes shipped and electricity generated</p> <p>d) Unacceptable Waste Log and Waste Screening Report - Tipping Floor</p>
143	<p>(e) quantity and type of the Residual Waste shipped from the Site, including any required outgoing Residual Waste characterization results;</p> <p>(f) destination and/or receiving site(s) for the Residual Waste shipped from the Site;</p> <p>(g) quantity and type of any Rejected Waste accepted at the Site;</p> <p>(h) destination and/or receiving site(s) for the Rejected Waste shipped from the Site;</p> <p>(i) housekeeping activities, including litter collection and washing/cleaning activities, etc.</p> <p>(j) amount of electricity produced;</p> <p>k) amount of excess electricity exported to the electrical grid.</p>	<p>e) quantities and type included in Daily Waste Logs</p> <p>f) see item 59</p> <p>g) In 2020, unacceptable waste included utility pole, chemical drum, wood and helium tanks.</p> <p>h) Unacceptable waste is removed by Photech Environmental Solutions Inc. and nonprocessable waste is removed by Waste Management of Canada Corporation.</p> <p>i) complete daily and weekly environmental activity</p> <p>j and k) excel production stats</p>
144	<p><b>Monitoring and Testing Records</b></p> <p><b>ECA 14 (4)</b> The Owner shall maintain an on Site written or digital record of activities undertaken at the Site. All measurements shall be recorded in consistent metric units of measurement. As a minimum, the record shall include the following:</p> <p>(a) day and time of the activity;</p> <p>(b) all original records produced by the recording devices associated with the CEM Systems;</p> <p>(c) a summary of daily records of readings of the CEM Systems, including:</p> <p>(i) the daily minimum and maximum 4 hour average readings for carbon monoxide; (ii) the daily minimum and maximum one hour average readings for oxygen;</p> <p>(iii) the daily minimum and maximum 10 minute average readings for organic matter; (iv) the daily minimum and maximum 24 hour average readings for sulphur dioxide; (v) the daily minimum and maximum 24 hour average readings for nitrogen oxides;</p> <p>(vi) the daily minimum and maximum 24 hour average readings for hydrogen chloride;</p> <p>(vii) the daily minimum and maximum 6 minute average and 2 hour average opacity readings; and</p> <p>(viii) the daily minimum and maximum one hour average readings for temperature measurements.</p>	<p>CEMS data is available online:  <a href="https://apps.durham.ca/applications/works/DYEC/EmissionsData/EmissionsData.aspx">https://apps.durham.ca/applications/works/DYEC/EmissionsData/EmissionsData.aspx</a></p>
145	<p><b>ECA 14 (4)</b> (d) records of all excursions from the applicable Performance Requirements as measured by the CEM Systems, duration of the excursions, reasons for the excursions and corrective measures taken to eliminate the excursions;</p> <p>(e) all records produced during any Acoustic Audit;</p> <p>(f) all records produced during any Source Testing;</p> <p>(g) all records produced by the long term sampling program for Dioxins and Furans required by this Certificate;</p> <p>(h) all records produced during the Residual Waste compliance testing;</p> <p>(i) all records produced during the Soil Testing;</p> <p>(j) all records produced during the Groundwater and Surface Water Monitoring required by this Certificate; (k) all records produced during the Ambient Air Monitoring required by this Certificate;</p>	<p>(d) No excursions occurred in 2022.</p> <p>(e) No Acoustic Audit completed in 2022; no longer required.</p> <p>(f) Ortech 2022 Voluntary Compliance Emission Testing Program Report, August 16, 2022;</p> <p>(g) Ortech Report: DYEC 2022 Compliance Emission Testing in Accordance with ECA no. 7306-8FDKXN, date March 1, 2023;</p> <p>(h) Residual Waste compliance testing records;</p> <p>(i) See item 106;</p> <p>(j) Groundwater and Surface Water Monitoring results;</p> <p>(k) Ambient Air Quality Monitoring Reports 2022.</p>
146	<p>(l) all records associated with radiation monitoring of the incoming Waste, including but not limited to: (i) transaction number; (ii) hauler; (iii) vehicle ID; (iv) alarm level; (v) maximum CPS; (vi) uSv/hr; (vii) comment; (viii) background CPS; (ix) driver time in and out; and (x) name of the Trainer Personnel that carried out the monitoring.</p> <p>(m) results of the containment testing carried out in the buildings, conveyors, tanks and silos, as required; (n) results the negative pressure in the Tipping Building carried out, as required.</p>	<p>There were three loads of waste rejected from the Facility in 2022 due to radiation (March 30, April 25 and July 20, 2022).</p> <p>Scale House Operators send out the Daily Customer/Material Report summarizing inbound and outbound tickets, truck ID, weight, broken down by MSW Durham and MSW York.</p>

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Item	Condition	Supporting Evidence Apr 4-5, 2023
147	<p><b>Inspections/Maintenance/Repairs</b>  <b>ECA 14 (5)</b> The Owner shall maintain an on Site written or digital record of inspections and maintenance as required by this Certificate. As a minimum, the record shall include the following:            (a) the name and signature of the Trained Personnel that conducted the inspection;            (b) the date and time of the inspection;            (c) the list of any deficiencies discovered, including the need for a maintenance or repair activity;            (d) the recommendations for remedial action;            (e) the date, time and description of actions (repair or maintenance) undertaken;            (f) the name and signature of the Trained Personnel who undertook the remedial action; and            (g) an estimate of the quantity of any materials removed during cleaning of the Works.</p>	see items above
148	<p><b>Emergency Situations</b>  <b>ECA 14 (6)</b> The Owner shall maintain an on Site written or digital record of the emergency situations. As a minimum, the record shall include the following:            (a) the type of an emergency situation;            (b) description of how the emergency situation was handled;            (c) the type and amount of material spilled, if applicable;            (d) a description of how the material was cleaned up and stored, if generated; and            (e) the location and time of final disposal, if applicable; and            (f) description of the preventative and control measures undertaken to minimize the potential for re occurrence of the emergency situation in the future.</p>	In 2022, one spill was reported to the MECP as a precautionary measure. The MECP confirmed that the spill was exempt from reporting requirements.
149	<p><b>Complaints Response Records ECA 14 (7)</b> The Owner shall establish and maintain a written or digital record of complaints received and the responses made as required by this Certificate.</p>	2022 ECA Annual Report Section 13 and monthly complaints log.
150	<p><b>Training</b>  <b>ECA 14 (8)</b> The Owner shall maintain an on Site written or digital record of training as required by this Certificate. As a minimum, the record shall include the following: Page 41 Number 7306 8FDKNX            (a) date of training;            (b) name and signature of person who has been trained; and            (c) description of the training provided.</p>	see above
151	<p><b>Reports ECA 14 (9)</b> The Owner shall keep at the Site the following reports required by this Certificate:            (a) the ESDM Report            (b) the Acoustic Assessment Report;            (c) the Annual Report; and            (d) the Third Party Audit.</p>	a) Fall source testing includes updated emission source inventory and dispersion modelling (Appendix 27 Dispersion Modelling Results for the Nov/Dec 2022 Testing Program - Draft Technical Memo dated March 1, 2023 from WSP). b) Acoustic removed as condition of ECA c) available on website d) available on website
152	<p><b>15. REPORTING Annual Report (1)</b> By March 31st following the end of each operating year, the Owner shall prepare and submit to the District Manager and to the Advisory Committee, an Annual Report summarizing the operation of the Site covering the previous calendar year.            This Annual Report shall include, as a minimum, the following information:            (a) a summary of the quality and the quantity of the Wastes accepted at the Site, including the maximum amount of the Waste received annually and daily and the sources of the Waste;            (b) a summary of the quality and the quantity of the Residual Waste shipped from the Site, including the analytical data required to characterize the Residual Waste, the off Site destinations for the Residual Waste and its subsequent use, if known;            (c) estimated material balance for each month documenting the maximum amount of wastes stored at the Site;            (d) annual water usage;</p>	The 2022 Annual Report submission letter to the MECP is dated March 30, 2023.  The waste to energy committee is listed as a recipient on the submission letter.
153	<p>(e) annual amount of the electricity produced and the annual amount of the electricity exported to the electrical grid;            (f) summaries and conclusions from the records required by Conditions 14.(3) through 14.(8) of this Certificate; (g) the Emission Summary Table and the Acoustic Assessment Summary Table for the Facility as of December 31 from the previous calendar year;            (h) a summary of dates, duration and reasons for any environmental and operational problems, Boilers downtime, APC Equipment and CEM System malfunctions that may have negatively impacted the quality of the environment or any incidents triggered by the Emergency Response and Page 42 Number 7306 8FDKNX Contingency Plan and corrective measures taken to eliminate the environmental impacts of the incidents.</p>	See item 152.
154	<p>(i) a summary of the dates, duration and reasons for all excursions from the applicable Performance Requirements as measured by the CEM Systems or as reported by the annual Source Testing, reasons for the excursions and corrective measures taken to eliminate the excursions;            (j) results of the evaluation of the performance of the long term sampling system in determining the Dioxins and Furans emission trends and/or fluctuations for the year reported on as well as demonstrating the ongoing performance of the APC Equipment associated with the Boilers;            (k) dates of all environmental complaints relating to the Site together with cause of the Complaints and actions taken to prevent future Complaints and/or events that could lead to future Complaints.</p>	See item 152.

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155	(l) any environmental and operational problems that could have negatively impacted the environment, discovered as a result of daily inspections or otherwise and any mitigative actions taken; (m) a summary of any emergency situations that have occurred at the Site and how they were handled; (n) the results and an interpretive analysis of the results of the groundwater and surface water, including an assessment of the need to amend the monitoring programs; (o) summaries of the Advisory Committee meetings, including the issues raised by the public and their current status;	See item 152.
156	(p) any recommendations to improve the environmental and process performance of the Site in the future; (q) statement of compliance with this Certificate, including compliance with the O. Reg. 419/05 and all air emission limits based on the results of source testing, continuous monitoring and engineering calculations, as may be appropriate; and (r) interpretation of the results and comparison to the results from previous Annual Reports to demonstrate the Facility's impact on the environment.	See item 152.
157	<b>Third Party Audit ECA 15 (2)</b> (a) The Regions shall ensure that an independent technical review of the operations at the Site is undertaken in accordance with the requirements of the EA Approval. (b) In addition to the Third Party Audit requirements set out in the EA approval, the Third Party Audit shall include the following: (i) a review of the data from the monitoring and testing required by this Certificate; (ii) a review of all complaints received about the operation of the Facility; (iii) any recommendations for improving the operation of the Facility received from the Advisory Committee; and (iv) a recommendation of any improvements that could be made to ensure that the operation of the Facility is optimized and is protective of the health and safety of people and the environment. <b>(3)</b> The Regions shall submit a Written Audit Report on the results of the independent technical review to the Regional Director in accordance with the Audit Plan and retain a copy at the Site.	Third Party Independent Audit, DYEC Facility Operations Phase Audit - 2021 prepared by BluMetric Environmental Inc., dated April 28, 2022 (letter to MECP dated April 29, 2022).  Acknowledgement Letter from the MECP dated August 18, 2022.
158	<b>Soil Testing Report 15 (4)</b> Within one (1) month of completion of each Soil Testing event, the Regions shall submit to the District Manager a Soil Testing Report, which includes the details on the sampling/testing procedures, the results of the testing and a comparison with the results obtained during the previous Soil Testing.	DYEC 2020 Soil Testing Report, RWDI, October 20, 2020 indicates sampling was conducted on August 19, 2020. The next soil sampling will take place in August 2023.
159	<b>PUBLIC ACCESS TO DOCUMENTATION</b> <b>ECA 16(1)</b> The Owner shall, at all times, maintain documentation that describes the current operations of the Facility. The Owner shall post the documentation at the website for the undertaking and during regular business hours, the Owner shall make the following documents available for inspection at the Site by any interested member of the public, upon submission to the Ministry for review: (a) a current ESDM Report that demonstrates compliance with the Performance Limits for the Facility regarding all Compounds of Concern; (b) a current Acoustic Assessment Report that demonstrates compliance with the Performance Limits for the Facility regarding noise emissions; (c) the most recent Annual Report; (d) the most current Third Party Audit Report; (e) Odour Management and Mitigation Plan, prepared in accordance with the requirements of the EA Approval; (f) Noise Monitoring and Reporting Plan, prepared in accordance with the requirements of the EA Approval; and (g) Groundwater and Surface Water Monitoring and Reporting Plan, prepared in accordance with the requirements of the EA Approval.	Documents are available on the website: <a href="https://www.durhamyorkwaste.ca/en/index.aspx">https://www.durhamyorkwaste.ca/en/index.aspx</a>
161	(2) The Owner shall ensure that necessary hardware and software are provided at a location available to the public, to provide on line real time reporting of the operating parameter data for the Facility, including acceptable operating limits, stack emissions, and all other parameters for which continuous monitoring is required and that continuous records of the same be kept and made available to the public.	See item 159
162	<b>ECA 17. ADVISORY COMMITTEE (1)</b> The Regions shall establish an Advisory Committee in accordance with the requirements set out in the EA Approval.	Committee met on December 20, 2022 as per ECA Annual Report 2022 and the DYEC website.
163	<b>ECA 18. CLOSURE of the SITE amended</b> <b>(1)</b> A minimum of nine (9) months prior to closure of the Site, the Regions shall submit, for approval by the Director, a written Closure Plan for the Site. This Plan shall include, as a minimum, a description of the work that will be done to facilitate closure of the Site and a schedule for completion of that work. <b>(2)</b> Within ten (10) days after closure of the Site, the Regions shall notify the Director and the District Manager, in writing, that the Site is closed and that the approved Closure Plan has been implemented.	N/A



**Appendix D1**  
**Environmental Compliance Approval (ECA) Audit Table**

Item	Condition	Supporting Evidence Apr 4-5, 2023
164	<p><b>ECA Number 7306-8FDKNX Notice No. 1 issued April 22, 2020</b></p> <ol style="list-style-type: none"> <li>1. Until December 31, 2020, the Owner may temporarily increase the amount of Waste to be received and thermally treated at the Site up-to 160,000 tonnes per year.</li> <li>2. From the date of this Approval to the date that corresponds to up-to ninety (90) days after the Ontario Government ends the current Declaration of Emergency to Protect the Public Health, unless an extension has been issued in writing by the District Manager, the following Conditions Nos. 3 through 10 are in effect.</li> <li>3. The Owner shall provide a written notification to the District Manager when any of the following Conditions Nos. 4 through 9 are implemented.</li> <li>4. All conditions that set out limitations on hours/days for shipping and receiving of materials including the Waste, the reagents and the Residual Waste are temporarily rescinded.</li> <li>5. The Owner may temporarily increase the maximum tonnage amounts for the bottom and fly ash within the Residue Building up-to 80% of the total achievable storage capacity of the Residue Building.</li> <li>6. The Owner may temporarily store the Residual Waste and the reagents in the outdoor locations at the Site and the storage shall be done as follows:               <ol style="list-style-type: none"> <li>a. the storage shall be in covered and leak-proof trailers or bins or containers;</li> <li>b. trailers or bins or containers shall be parked or located away from catchbasins, if possible; and</li> <li>c. if trailers or bins or containers must be parked or be located near catchbasins, covers or booms shall be readily available to protect catchbasins in the event of a spill or leak.</li> </ol> </li> <li>7. All conditions that set out limitations on receipt and storage of reagents are temporarily rescinded.</li> <li>8. The Owner may temporarily reduce the number of loads tipped on the tipping floor for a manual visual inspection and sorting of the incoming Waste from one load per hour to two loads per shift, unless instructed otherwise by the local Medical Officer of Health to cease inspections on the tipping floor.</li> <li>9. Following commencement of the outdoor storage of the Residual Waste or the reagents at the Site, the Owner shall conduct daily inspections of any outdoor storage location for evidence of spills, odour, vermin/vectors, dust, litter and other nuisance impacts, and shall maintain a written or electronic log of these inspections. The log shall be kept at the Site for the duration acceptable to the District Manager and it shall contain the following information: a. the date of inspection; b. the location of the inspection; c. the name of the person undertaking the inspection; d. any impacts identified during the inspection; and e. any remedial actions taken to address those impacts.</li> <li>10. By the end of the ninety (90) day-period from the date when the Ontario Government ends the current Declaration of Emergency to Protect the Public Health, the Owner shall provide to the District Manager a summary report of the expected timelines for the storage and the operational practices to return to normal operating levels/protocols as approved in this Approval.</li> </ol>	N/A
165	<p><b>ECA Number 7306-8FDKNX Notice No. 2 issued December 23, 2021</b></p> <ol style="list-style-type: none"> <li>1. Until December 31, 2021, the Owner may temporarily increase the amount of Waste to be received and thermally treated at the Site from 140,000 tonnes per year up-to 142,000 tonnes per year.</li> </ol>	N/A

**Appendix D2**  
**Environmental Assessment (EA) Audit Table**

Item	Condition	Supporting Evidence Apr 4-5, 2023
1	<b>General Requirements EA 2(1)</b> The proponent shall comply with the provisions in the environmental assessment which are hereby incorporated in this Notice of Approval by reference except as provided in these conditions and as provided in any other approval or permit that may be issued for the site or the undertaking.	No new ECA amendments in 2022.
2	<b>EA 2(2)</b> These conditions do not prevent more restrictive conditions being imposed under other statutes.	see Item 1
3	<b>EA 2(3)</b> A statement must accompany the submission of any documents, reporting requirements or written notices required by this Notice of Approval to be submitted to the Director or Regional Director identifying which conditions the submission is intended to address in this Notice of Approval.	Letter included with DYEC 2022 Compliance Monitoring Report, dated November 3, 2022, submission.
4	<b>Public Record EA 3(1)</b> Where a document, plan or report is required to be submitted to the ministry, the proponent shall provide two copies of the final document, plan or report to the Director: a copy for filing in the specific public record file maintained for the undertaking and a copy for staff use.	As requested by the Ministry a hard copy and an electronic copy are provided to the Ministry.
5	<b>EA 3(2)</b> The proponent shall provide additional copies of the documents required for the public record file to the following for access by the public: a) Regional Director; b) District Manager; c) Clerks of the Regional Municipality of Durham, the Regional Municipality of York, and the Municipality of Clarington; and, d) Advisory Committee (as required in Condition 8 of this Notice of Approval).	No changes made in 2022
6	<b>EA 3(3)</b> The EAAB file number EA 08 02 shall be quoted on all documents submitted by the proponent pursuant to this Condition.	No changes made in 2022
7	<b>Compliance Monitoring Program</b> <b>EA 4(1)</b> The proponent shall prepare and submit to the Director a <b>Compliance Monitoring program</b> outlining how it will comply with conditions in the Notice of Approval and other commitments made in the environmental assessment. <b>EA 4(2)</b> A statement shall accompany the submission of the Compliance Monitoring Program indicating that the submission is intended to fulfill Condition 4 of this Notice of Approval. <b>EA 4(3)</b> The proponent shall implement the Compliance monitoring program as it may be amended by the Director.	Completed in 2011. Compliance and Monitoring Reports completed on an annual basis.
8	<b>EA 4(4)</b> The Compliance Monitoring Program shall describe how the proponent will monitor its fulfilment of the provisions of the environmental assessment pertaining to mitigation measures, public consultation, and additional studies and work to be carried out; the fulfilment of all other commitments made by the proponent during the environmental assessment process; and the conditions included in this Notice of Approval.	Refer to Appendix A of the Compliance Monitoring Program and the 2022 Compliance and Monitoring Report.
9	<b>EA 4(5)</b> The Compliance Monitoring Program shall contain an implementation schedule.	Completed in 2011.
10	<b>EA 4(6)</b> The Director may require amendments to the Compliance Monitoring Program, including the implementation schedule. If any amendments are required by the Director, the Director will notify the proponent of the required amendments in writing.	There were no amendments received in 2022.
11	<b>EA 4(7)</b> The proponent shall implement the Compliance Monitoring Program, as it may be amended by the Director.	DYEC 2022 Compliance Monitoring Report, dated November 2, 2022.
12	<b>EA 4(8)</b> The proponent shall make the documentation pertaining to the Compliance Monitoring Program available to the ministry or its designate in a timely manner when requested to do so by the ministry.	No change of Ownership in 2022

**Appendix D2  
Environmental Assessment (EA) Audit Table**

Item	Condition	Supporting Evidence <b>Apr 4-5, 2023</b>
13	<b>EA Compliance Reporting 5(1)</b> The proponent shall prepare an <b>annual Compliance Report</b> which describes its compliance with the conditions of approval set out in this Notice of Approval and which describes the results of the proponent's environmental assessment compliance Monitoring Program required by Condition 4.	No change of Ownership in 2022
14	<b>EA 5(2)</b> The annual Compliance Report shall be submitted to the Director within one year from the date of approval, with the first report being due in 2011, and shall cover all activities of the previous 12 month period.	Completed in 2011.
15	<b>EA 5(3)</b> Subsequent compliance reports shall be submitted to the Director on or before the anniversary of the date of approval each year thereafter. Each Compliance Report shall cover all activities of the previous 12 month period.	Durham/York Energy from Waste Project Submission of the 2022 Compliance Monitoring Report letter to MECP dated November 3, 2022.
16	<b>EA 5(4)</b> The proponent shall submit annual Compliance Reports until all conditions in this Notice of Approval and the commitments in the environmental assessment are satisfied.	See item 15
17	<b>EA 5(5)</b> Once all conditions in this notice of approval have been satisfied, or have been incorporated into any other ministry approval, the proponent shall indicate in its annual Compliance Report that the Compliance Report is its final Compliance Report and that all conditions in the Notice of Approval have been satisfied.	Copies of the ECA Certificate, Notice 1 and 2 are available on the company's website.
18	<b>EA 5(6)</b> The proponent shall retain either on site or in another location approved by the Director, <b>a copy of each of the annual Compliance Reports</b> and any associated documentation of compliance monitoring activities.	Copies are retained on the facility website.
19	<b>EA 5(7)</b> The proponent shall make the Compliance Reports and associated documentation available to the ministry or its designate in a timely manner when requested to do so by the ministry.	Compliance reports are available online: <a href="https://www.durhamyorkwaste.ca/en/environmental-monitoring/compliance-monitoring-program-and-reports.aspx#2020">https://www.durhamyorkwaste.ca/en/environmental-monitoring/compliance-monitoring-program-and-reports.aspx#2020</a>
20	<b>Complaint Protocol EA 6(1)</b> The proponent shall implement a <b>Complaint Protocol</b> setting out how it will deal with and respond to inquires and complaints received during the design, construction and operation of the undertaking.	As stated in Section 32.3 of the Project Agreement and SOP DYEC-REF-007 Unacceptable Waste Receiving Handling Storage and Disposal Revision 4, December 9, 2020, the Contractor shall not knowingly accept any delivery of unacceptable waste. The SOP defines the terms hazardous waste and unacceptable waste. Radioactive waste detected at the Scale House is diverted from the site
21	<b>EA 6(2)</b> The Complaint Protocol shall be provided to the advisory committee for review prior to submission to the Director.	Completed in 2011.
22	<b>EA 6(3)</b> The proponent shall submit the Complaint Protocol to the Director within one year from the date of approval or a minimum of 60 days prior to the start of construction, whichever is earlier.	Completed in 2012.
23	<b>EA 6(4)</b> The Director may require the proponent to amend the Complaint Protocol at any time. Should an amendment be required, the Director will notify the proponent in writing of the required amendment and date by which the amendment must be completed.	Amendments to Complaint Protocol were not required in 2022.
24	<b>EA 6(5)</b> The proponent shall submit the amended Complaint Protocol to the Director within the time period specified by the Director in the notice.	There were no amendments to the Complaint Protocol in 2022.
25	<b>Community Involvement EA 7(1)</b> The proponent shall prepare and implement a <b>Community Communications Plan</b> . The plan shall be prepare in consultation with the EAAB and to the satisfaction of the Director.	Completed in 2013.
26	<b>EA 7(2)</b> The proponent shall finalize and submit the Community Communications Plan to the Director prior to the initial receipt of non hazardous municipal solid waste at the site.	Completed in 2013.
27	<b>EA 7(3)</b> The community Communications Plan shall include at a minimum details on: a) How the proponent plans to disseminate information to interested members of the public and any Aboriginal communities; b) How interested members of the public and any Aboriginal communities will be notified and kept informed about information on documents related to the undertaking, and when and how the information will be made available. c) The procedures for keeping interested members of the public and Aboriginal communities informed about information on documents related to the undertaking, and when and how the information will be made available.	Completed in 2013.

**Appendix D2  
Environmental Assessment (EA) Audit Table**

Item	Condition	Supporting Evidence Apr 4-5, 2023
28	<p><b>EA 7(4)</b> The proponent shall give notice and provide information about the undertaking to interested members of the public and Aboriginal communities through an internet web site and by other means. Such information shall include:</p> <p>a) Activities that are part of the undertaking, including monitoring activities;</p> <p>b) Reports and records related to the undertaking that are required to be submitted under this Notice of Approval or under any other ministry approvals that apply to the undertakings; and, c) Information on the Complaint Protocol required by Condition 6 of this Notice of Approval.</p>	Documents available on website. No change in 2022.
29	<p><b>EA 7(5)</b> The proponent shall hold public meetings to discuss the design, construction and operation of the undertaking, including, but not limited to:</p> <p>a) At least one meeting prior to the start of construction;</p> <p>b) At least one meeting prior to the receipt of non hazardous municipal solid waste on site; and, c) At least one meeting a minimum of six months but not later than 12 months after the initial receipt of non hazardous municipal solid waste on the site.</p>	Completed in 2016.
30	<b>EA 7(6)</b> The proponent shall provide notice of the public meetings a minimum of 15 days prior to the meeting.	Refer to item 29.
31	<b>EA 7(7)</b> The proponent shall give the Director written notice of the time, date and location of each of the required community meetings a minimum of 15 days prior to the meeting.	Refer to item 29.
32	<b>Advisory Committee EA 8(1)</b> The proponent shall establish an <b>advisory committee</b> to ensure that concerns about the design, construction and operation of the undertaking are considered and mitigation measures are implemented where appropriate.	Advisory Committee established in 2011.
33	<p><b>EA 8(2)</b> The proponent shall provide administrative support for the advisory committee including, at a minimum:</p> <p>a) Providing a meeting space for advisory committee meetings;</p> <p>b) Recording and distributing minutes of each meetings;</p> <p>c) Preparing and distributing meeting notices; and,</p> <p>d) Preparing an annual report about the advisory committee's activities to be submitted as part of the Compliance Reports required by Condition 5 of this Notice of Approval.</p>	The DYEC 2022 Compliance Monitoring Report, dated November 2, 2022, includes the meeting minutes from the EFWAC Meeting # 18 November 29, 2021. The report also indicates that the EFWAC Meeting # 19 was scheduled for November 2022. There is no record of a meeting agenda on the website for this meeting.
34	<p><b>EA 8(3)</b> The proponent shall invite one representative from each of the following to participate on the advisory committee:</p> <p>a) Each of the lower tier municipalities in the Regional Municipality of Durham and, b) Each of the lower tier municipalities in the Regional Municipality of York.</p>	Completed in 2010.
35	<b>EA 8(4)</b> The proponent shall invite one representative from Central Lake Ontario Conservation Authority, and any other local conservation authorities that may have an interest in the undertaking to participate on the advisory committee.	Completed in 2010.
36	<p><b>EA 8(5)</b> The proponent shall invite one representative from each of the following local community groups to participate on the advisory committee:</p> <p>a) Durham CLEAR;</p> <p>b) Durham Environmental Watch; and, c) Zero Waste 4 Zero Burning.</p>	Completed in 2010.
37	<b>EA 8(6)</b> The proponent may also invite other stakeholders to participate in the advisory committee, including, but not limited to, interested members of the public, Aboriginal communities, and other federal or provincial agencies.	Completed in 2010.
38	<b>EA 8(7)</b> A representative from the ministry shall be invited to attend meetings as an observer.	Completed in 2010.
39	<p><b>EA 8(8)</b> The advisory committee shall be provided with a copy of the documents listed below for information and may review the documents as appropriate and provide comments to the proponent about the documents, including the:</p> <p>a) Compliance Monitoring Program required by Condition 4;</p> <p>b) Annual Compliance Report required by Condition 5;</p> <p>c) Complaint Protocol required by Condition 6;</p> <p>d) Community Communications Plan required by Condition 7;</p> <p>e) The annual reports required by Condition 10;</p> <p>f) Ambient Air Monitoring and Reporting Plan and the results of the ambient air monitoring program required by Condition 11.</p>	Completed. b) advisory committee included on the Submission Letter dated November 3, 2022 submitted to the MECP regarding the annual compliance monitoring report e) advisory committee included on the Submission Letters for the Waste Management Annual Report 2021, Region of Durham, and 2021 Annual Solid Waste Diversion Report, York Region. f) advisory committee included on the Submission Letters to the MECP dated May 13, August 13, November 12, 2022 and February 14, 2023.

**Appendix D2  
Environmental Assessment (EA) Audit Table**

Item	Condition	Supporting Evidence <b>Apr 4-5, 2023</b>
40	<p>g) Air Emissions Monitoring Plan required by Condition 12;  h) Written report prepared and signed by the qualified professional required by Condition 16.5;  i) Spill Contingency and Emergency Response Plan required by Condition 17;  j) Odour Management and Mitigation Plan and the Odour Management and Mitigation Monitoring Reports required by Condition 18;  k) Noise Monitoring and Reporting Plan as required by Condition 19;  l) Groundwater and Surface Water Monitoring Plan, the results of the groundwater and surface water monitoring program, and the annual report on the results of the groundwater and surface water monitoring program required by Condition 20; and,  m) Notice in writing of the date that municipal solid waste is first received as required by Condition 23.</p>	<p>h) advisory committee included on the Submission Letter to the MECP dated April 29, 2022.  j) advisory committee included on the Submission Letter to the MECP dated November 25, 2022.  l) advisory committee included on the Submission Letter to the MECP dated April 29, 2022.</p>
41	<p><b>EA 8(9)</b> The proponent shall hold the first advisory committee meeting within three months of the date of approval. At the first meeting, the advisory committee shall develop a Terms of Reference outlining the governance and function of the advisory committee.</p>	<p>Completed in 2011.</p>
42	<p><b>EA 8(10)</b> The Terms of Reference shall, at a minimum, include:  a) Roles and responsibilities of the advisory committee members;  b) Frequency of meetings;  c) Member code of conduct;  d) Protocol for dissemination and review of information including timing; and, e) Protocol for dissolution of the advisory committee.</p>	<p>Completed in 2011.</p>
43	<p><b>EA 8(11)</b> The proponent shall submit the advisory committee's Terms of Reference to the Director and Regional Director.</p>	<p>Completed in 2011.</p>
44	<p><b>Consultation with Aboriginal Communities EA 9(1)</b> The proponent shall continue to consult with any interested Aboriginal communities during the detailed design and implementation of the undertaking.</p>	<p>Completed in 2012.</p>
45	<p><b>Waste Diversion EA 10(1)</b> The proponent shall make a reasonable effort to work cooperatively with all lower tier municipalities to ensure that waste diversion programs, policies and targets set by the Regional Municipalities are being met. <b>EA 10(2)</b> The proponent shall prepare and implement a Waste Diversion Program Monitoring Plan.</p>	<p>10(1) and (2) Durham Waste Diversion Program Monitoring Plan Letter dated October 21, 2011, indicates that the Region continues to work with all lower tier municipalities regarding waste diversion. York Integrated Waste Management Master Plan, September 2013, indicates collaboration between Regional and local councils, residents, businesses, schools and community groups.</p>
46	<p><b>EA 10(3)</b> The Waste Diversion Program Monitoring Plan shall provide a description of monitoring and reporting which shall at minimum include:  a) Results of a source diversion programs and policies to determine the waste diversion rates and practices at both the regional and lower tier municipal level within the Regional Municipalities of Durham and York.  b) Progress in the diversion programs, policies, practices and targets described in the environmental assessment at both the regional and lower tier municipal level within the Regional Municipalities of Durham and York.  c) Monitoring results for any additional diversion programs, policies, practices and targets carried out within the Regional Municipalities of Durham and York, which are not described in the environmental assessment.</p>	<p>Plan prepared in 2011.</p>
47	<p><b>EA 10(4)</b> The proponent shall prepare and submit to the Director and Regional Director, commencing one year after the approval of the undertaking, annual reports detailing the results of the Waste Diversion Program Monitoring Plan. <b>10(5)</b> The proponent shall post the Waste Diversion Program Monitoring Plan and the annual reports required on the proponent's web site for the undertaking.</p>	<p>10(4) Waste Management Annual Report 2021, Region of Durham, submitted to the MECP on October 28, 2022.  2021 Annual Solid Waste Diversion Report, York Region, submitted to the MECP on October 14, 2022.  10(5) Reports accessed on website on April 4, 2023.</p>
48	<p><b>Ambient Air Monitoring EA 11(1)</b> The proponent shall prepare, in consultation with the ministry's Central Region Office and to the satisfaction of the Regional Director, an <b>Ambient Air Monitoring and Reporting Plan</b> for the undertaking.</p>	<p>Completed in 2012.</p>

**Appendix D2  
Environmental Assessment (EA) Audit Table**

Item	Condition	Supporting Evidence <b>Apr 4-5, 2023</b>
49	<b>EA 11(2)</b> The proponent shall submit the Ambient Air Monitoring and Reporting Plan to the Director and Regional Director a minimum of nine months prior to the start of construction or by such other date as agreed to in writing by the Regional Director.	Completed in 2012.
50	<b>EA 11(3)</b> The proponent shall establish a working group that will provide advice on the development of the Ambient Air Monitoring and Reporting Plan. The Regions will, at a minimum, extend an invitation to Health Canada, the Durham Region Health Department, York Region Public Health Services, one participant from the advisory committee, and any other relevant federal or provincial government agencies including the ministry.	Completed in 2011.
51	<b>EA 11(4)</b> The Ambient Air Monitoring and Reporting Plan shall include at a minimum: a) An ambient air monitoring program which includes an appropriate number of sampling locations. Siting of the sampling locations shall be in accordance with the Ministry of the Environment's Operation Manual for Air Quality Monitoring in Ontario, March 2008, as amended from time to time; b) The proposed start date for and frequency of the ambient air monitoring and reporting to be carried out; c) The contaminants that shall be monitored as part of the Ambient Air Monitoring and Reporting Plan; and d) At least one meeting on an annual basis between the proponent and the Regional Director to discuss the plan, the results of the ambient air monitoring program and any changes that are required to be made to the plan by the Regional Director.	a), b), c) Completed in 2012. d) Facility personnel indicated that the quarterly DYEC meetings, including the annual meeting, with MECP, Covanta, and York and Durham Regions were conducted via teleconference.
52	<b>EA 11(5)</b> The proponent shall implement the ambient air monitoring program prior to the receipt of non hazardous municipal solid waste on the site or at such other time that may be determined by the Regional Director and communicated to the proponent in writing and shall continue the monitoring until such time as the Regional Director notifies the proponent in writing that the Ambient Air Monitoring Program is no longer required.	Quarterly Ambient Air Monitoring continued in 2022. (see item 56)
53	<b>EA 11(6)</b> The Regional Director may require changes to be made to the Ambient Air Monitoring and Reporting Plan and the proponents shall implement the plan in accordance with the required changes.	No changes in 2022.
54	<b>EA 11(7)</b> The proponent shall report the results of the ambient air monitoring program to the Regional Director in accordance with the Ambient Air Monitoring and Reporting Plan.	Ambient Air Quality Monitoring Reports 2022: Q1 - Quarterly Ambient Air Quality Monitoring Report, RWDI, May 12, 2022 Q2 - Quarterly Ambient Air Quality Monitoring Report, RWDI, August 10, 2022 Q3 - Ambient Air Quality Monitoring Report, RWDI, November 11, 2022 Q4 - Ambient Air Quality Monitoring Report, RWDI, March 6, 2023
55	<b>EA 11(8)</b> Audits will be conducted by the ministry, as outlined in the Ministry of the Environment's Audit Manual for Air Quality Monitoring in Ontario, March 2008 to confirm that siting and performance criteria outlined in the Operations Manual are met. The proponent shall implement any recommendations set out in the audit report regarding siting of the sampling locations and performance criteria. The proponent shall implement the recommendations in the audit report within three months of the receipt of an audit report from the ministry.	RWDI, Quarterly Ambient Air Quality Monitoring Reports, May 12, 2022, August 10, 2022, November 11, 2022, March 6, 2023  Both stations were audited by the MECP on June 17, 2022. The Rundle SO2 was noted as low but within acceptable limits; a pump rebuild was completed. the Courtice NOx analyzer revealed inconsistencies in the gas response; recalibration was completed. the Rundle TSP hi-vol sampler required a restart to meet ministry criteria; the motor was replaced and unit recalibrated on June 20, 2022.  Both stations were audited by the MECP on October 17, 2022. The Rundle Road station TSP hi-vol sampler was noted to have an elevated flow rate but was still within acceptable limits. Calibration of the sampler is planned for Q1 of 2023.
56	<b>EA 11(9)</b> The proponent shall post the Ambient Air Monitoring and Reporting Plan and the results of the Ambient Air Monitoring Program on the proponent's web site for the undertaking upon submission of the plan or results of the program to the ministry.	Ambient Air Quality Monitoring Plan, Stantec Consulting Ltd., May 8, 2012. MOECC letters of acceptance May 30, 2012 and June 5, 2012. Ambient Air Quality Monitoring Reports 2022: Q1 - Quarterly Ambient Air Quality Monitoring Report, RWDI, May 12, 2022 Q2 - Quarterly Ambient Air Quality Monitoring Report, RWDI, August 10, 2022 Q3 - Ambient Air Quality Monitoring Report, RWDI, November 11, 2022 Q4 - Ambient Air Quality Monitoring Report, RWDI, March 6, 2023

**Appendix D2  
Environmental Assessment (EA) Audit Table**

Item	Condition	Supporting Evidence <b>Apr 4-5, 2023</b>
57	<b>EA Emissions Monitoring 12(1)</b> The proponent shall install, operate and maintain air emissions monitoring systems that will record the concentrations of the contaminants arising from the incinerator of waste.	Refer to ECA Condition 7(2)
58	<b>EA 12(2)</b> The air emissions monitoring systems shall be installed and operational prior to the receipt of non hazardous municipal solid waste at the site.	Completed in 2015.
59	<b>EA 12(3)</b> The proponent shall prepare and implement an Air Emissions Monitoring Plan. The Plan shall be prepared, in consultation with the ministry and to the satisfaction of the Director.	Completed in 2016.
60	<b>EA 12(4)</b> The Air Emissions Monitoring Plan shall include, at a minimum: a) Identification of all sources of air emissions at the site to be monitored; b) Identification of which contaminants will be monitored by continuous emissions monitoring and which by stack testing; c) The proposed start date for and frequency of air emissions monitoring; d) The frequency of and format for reporting the results of air emissions monitoring; e) The contaminants that shall be monitored, which shall include at a minimum those contaminants set out in Schedule 1 to this Notice of Approval; and, f) A notification, investigation and reporting protocol to be used in the event that the concentration(s) of one or more of the contaminants released from an emission source that requires approval under Section 9 of the Environmental Protection Act exceed the relevant limits.	Completed in 2016.
61	<b>EA 12(5)</b> The proponent shall submit the Air Emissions Monitoring Plan to the Director, a minimum of six months prior to the start of construction or by such other date as agreed to in writing by the Director.	Refer to item 59.
62	<b>EA 12(6)</b> The proponent shall [prepare and] implement an <b>Air Emissions Monitoring Plan</b> such that the monitoring commences when the first discharges are emitted from the facility to the air or at such other time as the Director may agree to in writing and shall continue until such time as the director notifies the proponent in writing that the Air Emissions Monitoring Plan is no longer required. <b>12(7)</b> The proponent shall post the reports of the air emissions monitoring systems on the proponents web site for the undertaking. <b>12(8)</b> For those contaminants that are monitored on a continuous basis, the proponent shall post on the proponent's website for the undertaking the results of the monitoring for each of those contaminants in real time.	Emission monitoring results are available on the DYEC website.
63	<b>Air Emissions Operational Requirements EA 13(1)</b> The proponent is expected to operate the undertaking in accordance with Schedule 1 of this Notice of Approval. If the facility is not operating in accordance with Schedule 1, the operator is required to take steps to bring the facility back within these operational requirements.	In 2022, one spill was reported to the MECP on September 2022. The facility reported compliance with all air emissions requirements in Schedule 1.
64	<b>EA 13(2)</b> Schedule 1 sets out the operational requirements the ministry expects the facility to meet during the normal operating conditions of the facility when operating under a steady state but does not include start up, shut down, or malfunction.	Refer to Item 63.
65	<b>EA 13(3)</b> The timing and frequency of monitoring for a contaminant in Schedule 1 shall be as required by the approval granted to the facility under the Environmental Protection Act, should approval be granted.	Completed.
66	<b>Daily Site Inspection EA 14(1)</b> The Proponent shall conduct a daily inspection of the site including the non hazardous municipal solid waste received at the site, each day the undertaking is in operation to confirm that: (a) The site is secure; (b) the operation of the undertaking is not causing any nuisance impacts; (c) the operation of the undertaking is not causing any adverse effects on the environment; (d) The undertaken is being operated in compliance with the conditions in this Notice of Approval and any other ministry approvals issued for the undertaking; and (e) Only non hazardous waste is being received at the site.	See Environmental Compliance Approval Conditions 3 (6), 3 (7), 3(8), 5 (5), 14 (3), and 14 (5).
67	<b>EA 14(2)</b> If, as a result of the daily inspection, any deficiencies are noted by the employee in regards to the factors set out in 14(1) above, the deficiency shall be remedied immediately by the proponent. If necessary to remedy the deficiency, the proponents shall cease operations at the site until the deficiency has been remedied.	See Environmental Compliance Approval Conditions 5 (5), 14 (3), and 14 (5).

**Appendix D2**  
**Environmental Assessment (EA) Audit Table**

Item	Condition	Supporting Evidence <b>Apr 4-5, 2023</b>
68	<p><b>Daily Site Inspection cont'd EA 14(3)</b> A record of the daily inspections shall be kept in the daily log book required in condition 15. The information below must be recorded in the daily log book by the person completing the inspection and includes the following information:</p> <p>(a) the name and signature of the person that conducted the daily inspection; (b) the date and time of the daily inspection;</p> <p>(c) a list of deficiencies discovered during the daily inspection; (d) any recommendation for action; and,</p> <p>(e) the date, time and description of actions taken.</p> <p><b>14(4)</b> The proponent shall retain either on site or in another location approved by the District Manager, a copy of the daily log book and any associated documentation regarding the daily site inspections.</p>	See Environmental Compliance Approval Conditions 5 (5), 14 (2), 14 (3), and 14 (5).
69	<p><b>Daily Record Keeping EA 15(1)</b> The proponent shall maintain a written daily log which shall include the following information:</p> <p>(a) Date;</p> <p>(b) Types, quantities and source of non hazardous municipal solid waste received;</p> <p>(c) Quantity of unprocessed, processed and residual non hazardous municipal solid waste on the site;</p> <p>(d) Quantities and destination of each type of residual material shipped from the site;</p> <p>(e) the record of daily site inspections required to be maintained by condition.</p>	See ECA Conditions 5 (5), 14 (3) and 14 (5).
70	<p>EA 15(1) (f) A record of any spills or process upsets at the site, the nature of the spill or process upset and the action taken for the clean up or correction of the spill or process upset, the time and date of the spill or process upset, and for the spills, the time that the ministry and other persons were notified of the spill pursuant to the reporting requirement of the Environmental Protection Act;</p> <p>(g) A record of any waste that was refused at the site, including: amounts reason for refusal and actions taken; and,</p> <p>h) The name and signature of the person completing the report.</p>	See ECA Conditions 5 (5), 14 (3) and 14 (5).
71	<p><b>EA 15(2)</b> The proponent shall retain either on site or in another location approved by the District Manager, a copy of the daily log book and any associated documentation.</p>	See Environmental Compliance Approval Conditions 5 (5), 14 (3), and 14 (5).
72	<p><b>EA 15(3)</b> The proponent shall make the daily log book and any associated documentation available to the ministry or its designate in a timely manner when requested to do so by the ministry.</p>	See ECA Condition 14(1).
73	<p><b>Third Party Audits EA 16(1)</b> The proponent shall retain the services of a Qualified, Independent Professional Engineer to carry out an independent audit of the undertaking.</p>	DYEC 2022 Third Party Audit Report - Operations Year 2021
74	<p><b>EA 16(2)</b> Within six months from the date of approval or other such date as agreed to in writing by the Regional Director, the proponent shall submit to the Director and the Regional Director, the name of the Qualified, Independent Professional Engineer and the name of the company where he/she is employed.</p>	No change for 2022.
75	<p><b>EA 16(3)</b> The proponent shall submit an audit plan to the satisfaction of the Regional Director that sets out the timing of and frequency for the audits, as well as the manner in which the audits are to be carried out.</p>	DYEC Operations Phase Audit Plan Revision 1, April 7, 2020.
76	<p><b>EA 16(4)</b> The audit shall include, at a minimum, the following:</p> <p>a) A detailed walkthrough of the entire site;</p> <p>b) A review of all operations used in connection with the undertaking; and,</p> <p>c) A detailed review of all records required to be kept by this Notice of Approval or under any other ministry approvals for the undertaking.</p> <p>d) The proponent shall obtain from the Qualified, Independent Professional Engineer, a written report of the audit prepared and signed by the Qualified, Independent Professional Engineer that summarizes the results of the audit.</p>	Refer to ECA condition 15 (2).
77	<p><b>EA 16(5)</b> The proponent shall submit the written report summarizing the result of the audit to the Regional Director no later than 10 business days following the completion of the audit.</p>	Refer to ECA condition 15 (3).
78	<p><b>EA 16(6)</b> The proponent shall retain either on site or in another location approved by the Regional Director, a copy of the written audit report and any associated documentation.</p>	Refer to ECA condition 15 (3).
79	<p><b>EA 16(7)</b> The proponent shall make the written audit report and any associated documentation available to the ministry or its designate in a timely manner when requested to do so by the ministry.</p>	Refer to ECA condition 14 (1).
80	<p><b>EA 16(8)</b> The proponent shall post the written audit report and any associated documentation available for the undertaking following submission of the report to the ministry.</p>	No change. See item 79.



**Appendix D2  
Environmental Assessment (EA) Audit Table**

Item	Condition	Supporting Evidence <b>Apr 4-5, 2023</b>
81	<b>Spill Contingency and Emergency Plan EA 17(1)</b> The proponent shall prepare and implement a spill contingency and emergency response plan. <b>17(2)</b> The proponent shall submit to the director, the Spill Contingency and Emergency Response Plan a minimum of 60 days prior to the receipt of non hazardous municipal solid waste a the site or such other date as agreed to in writing by the Director.	Completed in 2014.
82	<b>EA 17(3)</b> The Spill Contingency and Emergency Response Plan shall include, but is not limited to: a) Emergency response procedures , including notification procedures in case of a spill, fires, explosions or other disruptions to the operations of the facility; b) Cell and business phone numbers and work locations for all person(s) responsible for the management of the site; c) Emergency phone numbers for the local ministry office, the ministry's sills action centre, and the local Fire Department; d) Measures to prevent spills, fires and explosions; e) Procedures for use in the event of a fire.	Completed in 2014.
83	<b>EA 17(3) f)</b> Details regarding equipment for spill clean up and all control and safety devices; g) Shut down procedures for all operations associated with the undertaking including alternative waste disposal site locations; h) Maintenance and testing program for spill clean up equipment and fire fighting equipment i) Training for site operations and emergency response personnel; and j) A plan, identifying the location and nature of wastes on site.	Completed in 2014.
84	<b>EA 17(4)</b> The proponent shall provide the Spill Contingency and Emergency Response Plan to the District Manager, the local Municipality of Clarington and the local Municipality of Clarington Fire Department a minimum of 30 days prior to the initial receipt of non hazardous municipal solid waste at the site or such other date as agreed to in writing by the Director.	Completed in 2014.
85	<b>EA 17(5)</b> The proponent shall take all necessary steps to contain and clean up a spill on the site. A spill or upset shall be reported immediately to the ministry's Spills Action Centre at (416) 325 3000 or 1 800 268 6060.	There were no reportable spills documented in 2022. In 2022, one spill was reported to the MECP as a precautionary measure. The MECP confirmed that the spill was exempt from reporting requirements.
86	<b>Odour Management and Mitigation EA 18(1)</b> The proponent shall prepare, in consultation with the ministry's Central Region Office and to the satisfaction of the Regional Director, and implement an odour management and Mitigation Plan for the undertaking. <b>18(2)</b> The Proponent shall prepare and submit the Odour Management and Mitigation Monitoring reports annually to the Regional Director with the first report submitted beginning six months following the initial receipt of non hazardous municipal solid waste at the site or such other date as agreed to in writing by the Regional Director.	18(1) completed in 2015 18(2) 2022 Odour Management and Mitigation Monitoring Report
87	<b>EA 18(3)</b> The Odour Management and Mitigation Plan shall include at a minimum: a) Standard operating and shut down procedures; b) Maintenance schedules; c) Ongoing monitoring for and reporting of odour; d) Corrective action measures and other best management practices for ongoing odour control and for potential operational malfunctions; e) A schedule for odour testing at sensitive receptors; and, f) A section that specifically addresses odour control measures should operation of the undertaking be disrupted or cease.	Completed in 2015.
88	<b>EA 18(4)</b> The proponent shall prepare and submit the Odour Management and Mitigation Monitoring Reports annually to the Regional Director with the first report submitted beginning six months following the initial receipt of non hazardous municipal solid waste at the site or such other date as agreed to in writing by the Regional Director.	2022 Odour Management and Mitigation Monitoring Report, November 2022 and submission letter dated November 25, 2022
89	<b>EA 18(5)</b> The Odour Management and Mitigation Monitoring Reports shall be submitted every 12 months from the date of the submission of the first report or until such time as the Regional Director notifies the proponent in writing that the odour management and Mitigation Monitoring Reports are no longer required. <b>EA 18(6)</b> The Proponent shall post the Odour Management and Mitigation Monitoring Reports on the proponent's web site for the undertaking following submission of the reports to the Regional Director.	No change in 2022.

**Appendix D2**  
**Environmental Assessment (EA) Audit Table**

Item	Condition	Supporting Evidence Apr 4-5, 2023
90	<b>Noise Monitoring and Reporting EA 19(1)</b> The proponent shall prepare, and implement a Noise Monitoring and Reporting Plan for the undertaking.	No change in 2022.
91	<b>EA 19(2)</b> The proponent shall submit the Noise Monitoring and Reporting Plan to the Director a minimum of 90 days prior to the start of construction or such other date as agreed to in writing by the Director.	Completed in 2011.
92	<b>EA 19(3)</b> The Noise Monitoring and Reporting Plan shall include a protocol to ensure that the noise emissions from the facility comply with the limits set out in the Ministry of the Environment's Publication NPC 205 "Sound Level Limits for Stationary Sources in Class 1 & 2 Areas (Urban)", October 1995, as amended from time to time.	Completed in 2011.
93	<b>EA 19(4)</b> The proponent shall post the Noise Monitoring and Reporting Plan and on the proponent's web site for the undertaking following submission of the plan to the Director.	Viewed on the DYEC website.
94	<b>Groundwater and Surface Water Monitoring and Reporting EA 20(1)</b> Prior to the start of construction, the proponent shall identify any areas where the undertaking may affect groundwater or surface water. For those areas, the proponent shall prepare and implement, in consultation with the ministries Central Region Office and to the satisfaction of the Regional Director, a Groundwater and Surface Water Monitoring Plan.	Completed in 2016. Reduction in GW sampling frequency was approved by the Ministry on May 7, 2019.
95	<b>EA 20(2)</b> The proponent shall provide the Groundwater and Surface Water Monitoring Plan to other any government agencies for review and comment, as may be appropriate.	Not applicable in 2022.
96	<b>EA 20(3)</b> The Groundwater and Surface Water Monitoring Plan shall include at a minimum: a) A groundwater and surface water monitoring program; b) The proposed start date and frequency of groundwater and surface water monitoring; c) The contaminants that shall be monitored as part of the groundwater and surface water monitoring program; and, d) At least one meeting each year between the proponent and the Regional Director to discuss the plan, the results of the monitoring program and any changes that are required to be made to plan by the Regional Director.	a), b), c) Completed in 2012. d) Quarterly meetings, including annual meeting, conducted as per facility personnel.
97	<b>EA 20(4)</b> The proponent shall submit the Groundwater and Surface Water Monitoring Plan to the Regional Director a minimum of 90 days prior to the start of construction or such other date as agreed to in writing by the Regional Director.	Refer to Item 94.
98	<b>EA 20(5)</b> The Regional Director may require changes to be made to the Groundwater and Surface Water Monitoring Plan and the proponent shall implement the plan in accordance with the required changes.	Refer to Item 94.
99	<b>Groundwater and Surface Water Monitoring and Reporting EA 20(6)</b> The groundwater and surface water monitoring program shall commence prior to the receipt of non hazardous municipal solid waste at the site or such other time as agreed to in writing by the Regional Director and shall continue until such time as the Regional Director notifies the proponent in writing that the groundwater and surface water monitoring program is no longer required.	2021 Annual Groundwater Surface Water Annual Report, RWDI, April 27, 2022 MECP Acknowledgement Letter, January 30, 2023 accepting the proposal to hold the Surface Water Monitoring Program in abeyance until construction in the area subsides.
100	<b>EA 20(7)</b> Thirty days after waste is first received on site, the proponent shall prepare and submit to the Director and Regional Director, a report containing all of the results of the groundwater and surface water monitoring program.	No change in 2022.
101	<b>EA 20(8)</b> The proponent shall prepare and submit to the Director and Regional Director an annual report containing the results of the groundwater and surface water monitoring program. The first report shall be submitted 12 months from the start of the monitoring program and every year thereafter.	Refer to Item 99.
102	<b>EA 20(9)</b> The proponent shall prepared and submit to the director and Regional Director, a reporting containing the results of the groundwater and surface water monitoring program within 30 days of any of the following events: (a) A spill occurs on site; (b) A fire or explosion occurs on site; (c) A process upset; or (d) Any disruption to normal operations that may directly or indirectly have an impact on groundwater or surface water.	Refer to ECA condition 7(14)(b)

**Appendix D2  
Environmental Assessment (EA) Audit Table**

Item	Condition	Supporting Evidence Apr 4-5, 2023
103	EA 20(10) The proponent shall post the Groundwater and Surface Water Monitoring plan and all reports required by this condition on the proponent's web site for the undertaking following submission of the plan and reports to the ministry.	No change in 2022.
104	Types of Waste and Service Area EA 21(1) Only non-hazardous municipal solid waste from municipal collection within the jurisdictional boundaries of the Regional Municipality of Durham and the Regional Municipality of York may be accepted at this site.	Refer to ECA Conditions 2 (1), 2 (2), 2 (3).
105	EA 21(2) Materials which have been source separated for the purposes of diversion shall not be accepted at this site. This prohibition does not apply to the non-recyclable residual waste remaining after the separation of the recyclable materials from the non-recyclable materials at the materials recycling facility or other processing facility.	Refer to ECA Condition 2(3)(b).
106	EA 21(3) The proponent shall ensure that all incoming waste is inspected prior to being accepted at the site to ensure that only non-hazardous municipal solid waste is being accepted.	Refer to ECA Condition 4(2) and 4(3).
107	EA 21(4) If any materials other than non-hazardous municipal solid waste are found during inspection or operation, the proponent shall ensure that management and disposal of the material is consistent with ministry guidelines and legislation.	Refer to ECA Condition 4(3).
108	Amount of Waste EA 22(1) The maximum amount of non-hazardous municipal solid waste that may be processed at the site is 140,000 tonnes per year.	The quantity of waste processed in 2022 was 140,000 tonnes based on pit inventory.
109	Notice of the Date Waste First Reviewed EA 23(1) Within 15 days of the receipt of the first shipment of waste on site, the proponent shall give the Director and Regional Director written notice that the waste has been received.	No change in 2022.
110	<p>Construction and Operation Contracts EA 24(1) In carrying out the undertaking, the proponent shall require that its contractors, subcontractors and employees:</p> <ul style="list-style-type: none"> <li>a) full fil the commitments made by the proponent in the environmental assessment process, including those made in the environmental assessment and in the proponent's responses to comments received during the environmental assessment comment periods;</li> <li>b) meet applicable regulatory standards, regarding the construction and operation of the undertaking;</li> <li>c) obtain any necessary approvals, permits or licenses; and,</li> <li>d) have the appropriate training to perform the requirements of their position.</li> </ul>	Refer to ECA condition 9(1) and 6
111	Amending procedures EA 25(1) Prior to implementing any proposed changes to the undertaking, the proponent shall determine what Environmental Assessment Act requirements are applicable to the proposed changes and shall fulfill those Environmental Assessment Act requirements.	No amendments in 2022.

## **Appendix E**

DYEC Third Party Audit Legislative Review Table

**Table E: DYEC Third Party Audit Legislative Review**

<b>Legislation</b>	<b>Application</b>	<b>Impact</b>	<b>2022 Audit Comments</b>
National Pollutant Release Inventory (CEPA Section 46-53)	Canada's public inventory of pollutant releases, disposals, and transfers	Land, water, air	2022 NPRI annual report submitted on May 31, 2022, prior to the June 1, 2022, deadline.
O. Reg. 1/17 Registrations under part II.2 of the act – Activities Requiring Assessment of Air Emissions	Environmental Protection Act	Air	O. Reg. 1/17 does not apply to the facility.
O. Reg. 101/07: Waste Management Projects	Environmental Assessment - Waste Management Projects	Air, Land, Water	<p>O. Reg. 101/07 designates the types of undertakings that require and environmental assessment.</p> <p>Current site activities are reviewed against the current facility EA (refer to Appendix D for the EA Checklist).</p> <p>Future activities are not applicable to the scope of the audit.</p>
Environmental Protection Act, R.S.O. 1990, c. E.19	Section 9, 27, 53 (OWRA)	All	Refer to Appendix D for the ECA checklist.
O. Reg. 419/05: Air Pollution - Local Air Quality	Source test reporting	Air	Refer to Appendix D for the ECA checklist.
O. Reg. 390/18: Greenhouse Gas Emissions: Quantification, Reporting and Verification	CO2e emission reporting	Air	2021 GHG annual reports were submitted on May 31, 2022, prior to the June 1, 2022, deadline.

<b>Legislation</b>	<b>Application</b>	<b>Impact</b>	<b>2022 Audit Comments</b>
R.R.O. 1990 Reg. 347 General Waste Management	General waste management (i.e. ash, hazardous waste)	Land, Water, Air	<p>Facility Generator Numbers are ON7245228 (Facility) and ON9300391 (Tipping Floor). Hazardous wastes generated at the facility were removed from site by a licensed hauler (GFL 4100-4MJLQJ, GFL A840849, Accuworx A841664) to registered receiver (GFL A680301, A390323).</p> <p>Wastes removed from the feed waste (i.e., unacceptable wastes) were removed by A841604 and delivered to 6173-9UBLDJ (Photech).</p> <p>Bulky unprocessable items (non-hazardous) were removed by A840311 and delivered to A680243 (WM).</p>
O. Reg. 463/10: Ozone Depleting Substances and Other Halocarbons	HVAC equipment - handled by Contractor	Air	Facility personnel obtain a copy of ODS technician licences.
O. Reg. 255/11: Applications for Environmental Compliance Approvals	New and amended Environmental Compliance Approvals	Land, Water, Air	O. Reg. 255/11 specifies the requirements of an ECA application. There were no ECA applications submitted during the audit period.