



THIRD PARTY INDEPENDENT AUDIT

**DURHAM YORK ENERGY CENTRE FACILITY
OPERATIONS PHASE AUDIT - 2017**

Submitted to:

Durham York Energy Centre

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

Prepared by:

BluMetric Environmental Inc.

825 Milner Avenue
Scarborough, ON M1B 3C3

Project Number: 180225
26 April 2018

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EXECUTIVE SUMMARY

BluMetric Environmental Inc. (BluMetric™) was retained by the Regional Municipality of Durham to complete annual, third party, independent audits of the Durham York Energy Centre (DYEC) Facility Operations for a three year period commencing in 2018 and ending after the final report is submitted in 2020. The 2017 operations phase audit was conducted in April 2018.

The audit was conducted 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 regulatory criteria. The audit was completed in accordance with CSA Z773 Environmental Compliance Auditing Standard and the Durham York Energy Centre Operations Phase Audit Plan. Auditing evidence was collected through a documentation review, a site visit and interviews. Document review included the most recent version of each document, including a review of recommendations from the previous year's third party independent audit. The site visit took place on April 4 and 5, 2018 and included the review of records created between January 1 and December 31, 2017.

For the 2017 operational year, DYEC operated in general accordance with environmental legislations and their Environmental Assessment conditions. Two non-compliances were identified related to non-smoking signs and the facility's Contingency and Emergency Response Plan. In addition, two opportunities for improvement pertaining to hazardous materials storage were noted.



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1 INTRODUCTION

The Durham York Energy Centre (DYEC) is a waste-to-energy facility located in Courtice, Ontario that processes approximately 140,000 tonnes of solid municipal waste (SMW) annually, generating up to 20 MW 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 2018 and ending after the final report is submitted in 2020.

The 2017 operations phase audit was carried out 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 regulatory criteria. The limitations of this study are presented in **Appendix A**.

1.1 SCOPE OF WORK

The audit was completed in accordance with CSA Z773 Environmental Compliance Auditing Standard and the Durham York Energy Centre Operations Phase Audit Plan. Auditing evidence was collected through a documentation review, a site visit and interviews. Document review included the most recent version of each document. The on-site audit included the review of records created between January 1 and December 31, 2017.

The scope of the audit consisted of 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. Recommendations for any improvements to ensure that facility operations are compliant and protective of human health and safety and the environment.
6. Observations made during the detailed walkthrough of the entire site.
7. A review of all operations used in connection with the undertaking.
8. 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.



2 AUDIT METHODOLOGY

The third party audit was executed by BluMetric in three phases as follows:

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

2.1 PHASE I: AUDIT PLAN AND DOCUMENT REVIEW

An Audit Plan was prepared by BluMetric and submitted to the DYEC on February 21, 2018. The plan briefly described the audit objectives, scope and criteria, audit approach and methodology (site visits, interviews, etc.), presented the schedule and timetable, audit activities and documents to be reviewed on-site. The Audit Plan is presented in **Appendix B**. Note that at the time of plan approval, Ms. Philippa McPhee was listed as an on-site auditor. Due to unforeseen circumstances, Ms. Jessica Petrocco replaced Ms. Philippa McPhee as an on-site auditor.

Prior to the on-site audit, the BluMetric auditors reviewed available documentation to verify the scope of the audit, update the audit checklists, and create site specific audit questions. Documentation was available from the DYEC website (<https://www.durhamyorkwaste.ca/Documents/Documents.aspx>) and consisted 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 2016 Operations Independent Third Party Audit Report was reviewed and the recommendations from this report were noted as audit questions.

2.2 PHASE II: ON-SITE AUDIT

The on-site audit at the DYEC was conducted on April 4 and 5, 2018 by BluMetric auditors Ms. Jenna Boyce, B. Eng., P. Eng. (Lead Auditor) and Ms. Jessica Petrocco M. Eng., P. Eng. (Auditor). Mr. Ian Macdonald, M.Sc., P. Geo., EP (CEA) (Senior Auditor) 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 was planned to commence at 8:30 am. Upon arrival at the DYEC Facility, the auditors were informed that the plant was experiencing an unplanned shut-down that required facility personnel to investigate. As a result, the opening meeting was delayed slightly.

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 for the audit were present:

- Mr. Christian Shelepuk, Supervisor, Regional Municipality of Durham
- Ms. Lyndsay Waller, Operations Technician, Regional Municipality of Durham
- Mr. O'Neil Wright, Internal Auditor, Regional Municipality of Durham
- Ms. Jenna Boyce, External Auditor, BluMetric Environmental Inc.
- Ms. Jessica Petrocco, External Auditor, BluMetric Environmental Inc.

2.2.2 Inspection of Facility

With the DYEC audit team, BluMetric auditors toured the exterior, the Scale House and the Residue Storage Building of the DYEC facility on April 4, 2018. The weather was noted to be approximately 5°C, overcast and with extremely high winds. The DYEC plant, including the Boiler Building, the Tipping Floor Building, and the CEMS Building, was visited on April 5, 2018. 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. All facility operations were inspected excluding the fire water pump house and electrical building.

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**. Any document provided by DYEC after the on-site audit, are also listed in **Appendix C**.



2.2.4 Closing Meeting

At the closing meeting BluMetric verbally presented audit findings to the DYEC stakeholders. 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:

- Mr. Christian Shelepuk, Supervisor, Regional Municipality of Durham
- Ms. Lyndsay Waller, Operations Technician, Regional Municipality of Durham
- Mr. O'Neil Wright, Internal Auditor, Regional Municipality of Durham
- Ms. Amanda Huxter, Environmental Specialist, Covanta
- Ms. Jenna Boyce, External Auditor, BluMetric Environmental Inc.
- Ms. Jessica Petrocco, External Auditor, BluMetric Environmental Inc.

2.3 PHASE III: AUDIT REPORTING

This report has been prepared in accordance with the Durham York Energy Centre Operations Phase Audit Plan and presents the audit observations, conclusions and recommendations with respect to the 2017 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**.

3 FINDINGS AND RECOMMENDATIONS

3.1 PREVIOUS AUDIT FINDINGS

The Independent Third Party Audit for the 2016 Operational Year was completed by Malroz Engineering Incorporated. As presented in the Audit Report dated April 27, 2017, there were no non-compliances noted. The following areas of improvement were noted:

1. *For the dioxin and furan shutdown, and the two fires, it would be helpful if a timeline of events, including summary of reporting to the MOECC and concurrence or disagreement with approach were included in the Annual ECA Report to document that action was taken in accordance with the relevant ECA conditions.*
2. *The sign in the parking lot entrance has become partially obstructed at the bottom by landscaping vegetation. Trimming of the vegetation is recommended to prevent any obstruction of the sign.*



The 2016 DYEC ECA Annual Report provides details related to the dioxins and furans exceedance in 2016. As a result an Abatement Plan was developed, approved by MOECC and executed by the facility. During the 2017 audit, the facility personnel indicated that the Contingency and Emergency Response Plan is being updated (refer to finding 2 in Table 1 below).

During the site visit, the BluMetric auditors noted that the sign in the parking lot entrance was clearly visible and no obstruction by vegetation was observed. Item 2 noted above can be considered closed.

The previous auditors also noted the following outstanding item for the 2016 Operational Year:

3. *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.*

Facility personnel stated that item 3 is still an outstanding item.

3.2 POSITIVE FINDINGS

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

- The DYEC was granted ISO14001:2015 certification in January 2018 which is a clear reflection of the facility’s operations and commitment with respect to environmental management.
- The facility has implemented an extensive training program for their operators which not only deals with operating procedures but with environmental topics based on the job descriptions of individual employees.
- For a facility that accepts and processes municipal solid waste on a daily basis, it was noted to be clean during the site visit and minimal odours were noticed by the auditors.

Non-compliance and opportunities for improvement are presented in the following sections.



3.3 NON-COMPLIANCES

Table 1: Findings – Non-Compliances

ID	Condition	Finding/Observation	Recommendation
1.	<p>ECA 3(3) 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.</p>	<p>Observed "no smoking" signs during site visit. There were two outdoor flammable storage locations that did not have a sign posted or it was not visible; outside Residue Building (no sign) and CEM lab (not visible).</p>	<p>Ensure that "no smoking" signs are posted and clearly visible on all flammable storage areas.</p> <p>Ensure that signs are in conformance with the National Fire Code.</p>
2.	<p>ECA 11 (4) 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</p> <p>ECA 11 (6) 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>The current Spill Contingency and Emergency Response Plan is not-up-to-date as it was written during the construction phase. Covanta has their own internal DYEC Emergency Action Plan/Fire Safety Plan Revision 9.0 Updated October 14, 2016 and Spills Clean Up and Disposal SOP (S-ENV-002) dated March 11, 2014 that their employees are trained on.</p> <p>Facility personnel indicated that they are in the process of up-dating the Contingency and Emergency Response Plan.</p>	<p>Ensure that the Contingency and Emergency Response Plan is updated to reflect current on-site activities.</p> <p>Ensure that the updated plan is submitted to the District Manager for approval.</p>



3.4 OPPORTUNITIES FOR IMPROVEMENT

Table 2: Findings – Opportunities for Improvement

ID	Finding/Observation	Recommendation
1.	<p>During the site visit, the secondary containment of the outdoor ammonia tank was observed to contain several inches of water.</p> <p>Although, facility personnel noted that the quantity of water present in the containment area did not inhibit the capacity of the containment area, no records documenting the quantity of water were reviewed.</p>	<p>Ensure that water collected in the ammonia tank secondary containment is removed as needed.</p> <p>Consider installing a maximum water-level line in the containment area to clearly indicate when the area should be pumped out.</p>
2.	<p>Flammable storage cages were noted throughout the facility containing compressed gas cylinders. In some cases, gas cylinders labelled to contain non-flammable gases (e.g. nitrogen) were stored in these cages. It was often unclear as to whether the gas cylinders were full or empty.</p>	<p>Ensure that non-flammable materials are clearly identified as being non-flammable.</p> <p>Consider implementing a system to identify full and empty gas cylinders.</p> <p>Ensure proper separation distance is maintained between propane cylinders and other compressed gases.</p>



4 AUDIT CONCLUSIONS

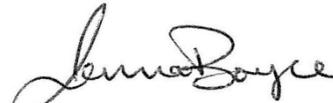
During the audit, facility personnel were cooperative throughout the process. Personnel were responsive to feedback and demonstrated an interest in developing and implementing corrective measures, which reflects the personnel's commitment and the site's culture with respect to environmental protection.

For the 2017 operational year, DYEC operated in general accordance with environmental legislations and their EA conditions. Two non-compliances were identified pertaining to the conditions of the facility ECA pertaining to non-smoking signs and the facility Contingency and Emergency Response Plan. In addition, two opportunities for improvement pertaining to hazardous materials storage were noted.

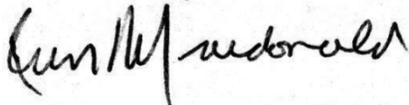
Respectfully submitted,
BluMetric Environmental Inc.



Jessica Petrocco, M. Eng., P. Eng.
Auditor



Jenna Boyce, P. Eng.
Lead Auditor



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



APPENDIX A

Limiting Conditions



LIMITATIONS AND 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. 180225	April 4 & 5, 2018
BluMetric™ Audit Team and Certification / Qualification	
Jenna Boyce, B.Eng., P.Eng. Environmental Engineer, Lead Auditor p. 613.839.3053 x274 e. jboyce@blumetric.ca Ian Macdonald, M.Sc.,P.Geo, EP (CEA), Senior Review p. 519.742.6685 x212 e. imac@blumetric.ca Philippa McPhee, B.Sc., Project Team Leader and EMS Auditor p. 905.242.1244 e. pmcphee@blumetric.ca	
DYEC Audit Team	
Lyndsay Waller - Operations Technician O'Neil Wright – Internal Auditor Christian Shelepek – Supervisor	
Audit Objectives	
The objective of the project is to conduct the 2018 annual third party independent audit of the Durham York Energy Centre 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).	
Audit Scope and Criteria	
The audit scope includes the entire DYEC facility and operations per the <i>2013 Third Party Audit Operations Phase Plan</i> . The 2018 audit will include the 2017 reporting year (RY17) from January 1, 2017 to December 31, 2017. Audits for RY18 and RY19 will be completed in April 2019 and 2020, respectively.	
The audit criteria will include the requirements of the site ECA and EA Notice as noted above and applicable federal, provincial and municipal regulatory criteria.	
Audit Approach and Methodology	
The audit will be completed in accordance with CSA Z773 Environmental Compliance Auditing Standard. BluMetric will execute a three-phase work plan to meet the scope of work and project deliverable deadlines. Phase I - Planning and Audit Preparation Activities including: start-up meeting; examination of background documentation; preparation and submission of the Audit Plan; preparation of the audit-specific checklist, planning interviews and developing the Health & Safety Plan. Phase II - Examination through on-site audit & analysis. Phase III - Reporting including draft and final reports; debriefings.	



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Audit Activities, Schedule & Deliverables	
Submission of Audit Plan to DYEC	February 21, 2018
Approval of Audit Plan	March 8, 2018
Preparation of HASP	March 8, 2018
On-Site Audit (see below for details)	April 4 & 5, 2018
Draft Final Report Submission to DYEC	April 13, 2018
Meeting – Draft Report Discussion	April 19, 2018
Comments from DYEC	April 20, 2018
Final Report to MOECC & Invoicing	April 27, 2018
On-Site Day 1	
Opening Meeting: Introduction, validation of the objectives, discussion of site safety requirements, and confirmation of the audit activities of the day.	08h30
Site tour (roof, yards, lands, plant)	09h00
Lunch	12h00
Interviews / Document Review	12h30
Closing Meeting	16h15 to 16h30
On-Site Day 2	
Opening Meeting: confirmation of the audit activities of the day.	08h30
Site tour (offices, return to any areas in question)	09h00
Review of previous audit findings and related corrective actions.	11h00
Lunch	12h00
Interviews / Document Review	12h30
Auditor Preparation for Closing Meeting	15h30
Closing Meeting	16h00 to 16h30
Roles and Responsibilities of Participants to the Audit	
<p>Lead Auditor: ensure that the audit team members conduct the examination phase according to the Audit Plan.</p> <p>Auditors: gather evidence, collect information, assess conformance status and present the preliminary results.</p> <p>Site Representative: prepare the required documentation, ensure safe access to facilities, ensure the availability of resources such as staff availability for interviews and visits, provide on-site transportation if required (e.g. truck, van), ensure the availability of a working area for the auditors during the audit and a meeting room for the opening and closing meetings.</p>	

Document Availability

The following list of documents (where applicable) should be available for review during the site visit. Additional documentation may be requested as discovered.

General

Site Plan providing boundaries and buildings
Environmental Policy
Environmental Management System document index
Environmental Standard Operating Procedures
Equipment Inspection Records
Environmental Checklists and Daily Logs

Halocarbons & Ozone Depleting Substances (ODS)

ODS and Halocarbon Management Plans and Inventory
Certification records for refrigeration technicians
Maintenance/leak test logs
ODS Monitoring Data and Release Reports

Hazardous Materials and Waste

Hazardous Waste Management Plans and Inventory
Transportation manifests/waste generator number

Non-Hazardous Solid Waste

Waste Audit Data and Reduction Plans

Fuel Handling and Storage Tank Management

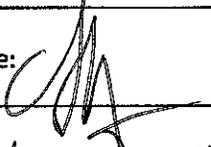
Storage Tank Management Plans and Inventory
Storage Tank Inspection Reports

Water Management

Water Management Plans
Water audit reports
Water Metering Records
Water Quality Monitoring Results

Environmental Emergency Response

Records of drills
Training records (WHMIS, Transportation of Dangerous Goods, etc.)
Spills Report Log

Document Availability	
PCBs List of major electrical equipment that may contain PCBs Confirmation analysis of transformer fluid to confirm absence of PCBs	
Energy Energy Audit Reports Energy use metering	
Others: Pest Control Plan Tipping Records	
Follow-Up Activities	
If required, information required following the site visit shall be documented at the Closing Meeting.	
Special Needs / Logistical arrangements	
<ul style="list-style-type: none"> • Access to employees for site tours and interviews • Access to a meeting and work area for the auditors and opening and closing meetings • Access to a computer with DYEC network access and electronic files. • Printer, photocopier or scanner: for detailed subsequent review of some documents for the report • Authorization to take photographs during the site visit, if possible: for detailed subsequent review of some comments 	
Additional Information	
None.	
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:	Print name of Lead Auditor:
_____	Jenna Boyce
Signature: 	Signature: 
Date: March 8 th , 2018	Date: March 8 2018

APPENDIX C

List of Records and Documents Reviewed



LIST OF RECORDS AND DOCUMENTS REVIEWED

Available on the DYEC Website

- *Environmental Compliance Approval (ECA) and amendments*
- *Environmental Assessment Notice of Approval (EA)*
- *Durham York Co-Owners Agreement*
- *Project Agreement*
- *Host Community Agreement (HCA)*
- *Ontario Energy Board Licence*
- *Air Emissions Monitoring through source (stack) testing*
- *Air Emissions Monitoring Plan (AEMP) 2017*
- *Ambient Air Monitoring and Reporting Plan*
- *2017 Ambient Air Reports*
- *Groundwater & Surface Water Monitoring Plan*
- *2016 Groundwater & Surface Water Monitoring Report*
- *Noise Monitoring Plan*
- *Odour Source Test Plan*
- *2017 Odour Management and Mitigation Monitoring Report*
- *2017 Odour Management and Mitigation Monitoring Report Submission Letter*
- *Soil Testing Plan*
- *2017 Soil Testing Report*
- *2017 Soil Testing Report Submission Letter*
- *Ash Sampling & Testing Protocol*
- *2015 Ash Sampling & Testing Report*
- *2017 Complaint, Inquiry Protocol & Logs*
- *Complaint Protocol*
- *2017 Compliance Monitoring Program*
- *Community Communications Plan*
- *Spill Contingency & Emergency Response Plan*
- *2016 Third Party Independent Audit Report*
- *Durham York Energy Centre Operations Phase Audit Plan*
- *2017 Letter to the MOECC Regarding Selection of Third Party Auditor*
- *Time and Temperature Protocol*
- *Durham Region Waste Diversion Plan*
- *York Region Waste Diversion Plan*



- *2016 and 2017 Annual ECA Reports*
- *Energy from Waste Advisory Committee Meeting 14 – July 12, 2017 Agenda*
- *Energy from Waste-Waste Management Advisory Committee*

Documents Reviewed On-site

- *Addendum 11.6 Requirements Checklist Excel Spreadsheet, Facility DYEC, ECA*
- *Addendum 11.6 Requirements Checklist Excel Spreadsheet, Facility DYEC, Project Agreement*
- *ISO14001:2015 Certificate, January 25, 2018 to 2021*
- *Optimization Certificate 007-8361, Gamble, LEM-3 Radiation Detection System, SN 1303LFM007-01, Date: Feb 23, 2018, Due Date: Feb 22, 2019*
- *Scalehouse operators binder*
- *Truck Scale Calibration Report, Date: Mar 26, 2018, Next Cal. June 2018*
- *Quarterly Scale Certification - Feb, May, Sept, Dec 2017*
- *SDS Lutetium III oxide, rev date Feb 10 2015*
- *Unacceptable Waste Logs from January 1, 2017 to December 31, 2017*
- *Pesticides Operator Licence, Abell Pest Control Inc. Expiry Date: February 15, 2019*
- *Abell Pest Control Management Program, January 4, 2018*
- *DYEC Weekly Environmental Site Inspection Form*
- *Print Incident/Task Report from Sphera*
- *Outside Environmental Checklist*
- *Odour Log - Completed when a complaint is received or noted during the daily environmental checklist.*
- *SOP DYEC-ENV-013(2) Notification to the MOECC (ECA Condition 13), date October 20, 2017*
- *Sphera Solutions - Online task management*
- *Knowledge Verification - sign off from employees*
- *Knowledge Verification - Month 9 - Hazard Communication and GHS/WHMIS - sign off by employees and dated.*
- *GHS Hazardous Materials Training Slides - 09 2017*
- *PeopleSoft - Maintenance procedures*
- *Monthly Report - December 2017 - Corrective Maintenance, Facility Operations.*
- *Durham York Energy Centre Inspection Reports Binder*
- *DYEC Spill Report Log 2017*
- *Covanta Spill Reporting Form dated July 17, 17*
- *Figure of Spill kit locations*
- *Notice of the Storage of Subject Waste (MOECC), Generator Number ON 7245228*
- *Manifest LW79765-3 green copy 2, brown copy 6*



- *Manifest ZM59338-3 green copy 2, brown copy 6*
- *Manifest CD98731-3 green copy 2, brown copy 6*
- *Manifest ZM19322-6 green copy 2, brown copy 6*
- *Manifest ZM39709-0 green copy 2, brown copy 6*
- *Manifest YH23066-2 green copy 2, brown copy 6*
- *Covanta Environmental 5 Day Notification Report - 2018*
- *Covanta Root Cause Analysis Binder*
- *Environmental Root Cause Analysis Report*
- *Covanta Environmental 5 Day Notification Report - 2017, December 14*
- *Matthew Neild Facility Manager email to MOECC Philip Dunn*
- *Covanta Environmental Notification Report*
- *Training Calendar*
- *Training Records - Sept 2017 - WHMIS*
- *Covanta Evacuation/Emergency Drill Report Form, dated February 14, 2017, 8 am*
- *Covanta Evacuation/Emergency Drill Report Form, dated May 18, 2017*
- *Covanta Evacuation/Emergency Drill Report Form, dated August 2, 2017*
- *Covanta DYEC Emergency Action Plan/Fire Safety Plan Revision 9.0 Updated October 14, 2016*
- *Covanta Knowledge Verification Form, Training Module TG - What If Spill Response*
- *DYEC - Spills Clean Up and Disposal S-ENV-002, dated March 11, 2014*
- *All Crews Enviro List of Required Training by employee name*
- *Covanta Study Guide Operator Qualification Program*
- *TDG Certificate for: Amanda Huxter, Wallet Card Expiry 2020, Training August 2017*
- *Customer/Material Report (08/24/2017 through 08/24/2017) – Provided by Client on April 23, 2018*



APPENDIX D

ECA and EA Checklists



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

Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
1	GENERAL Compliance ECA 1(1) 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.	ECA 1(1)	2017 ECA Annual Report submitted March 28, 2018 to the MOECC. No changes. 2017 Annual Report Section 1.
2	ECA 1(2) Any person authorized to carry out work on or operate any aspect of the Site shall comply with the conditions of this Certificate.	ECA 1(2)	ECA Report 2017 and as observed during the site visit
3	Build in Accordance ECA 1(3)(a) 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".	ECA 1(3)(a)(i)	Completed in 2016. No updates for 2017.
4	ECA 1(3)(a)(ii) 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".	ECA 1(3)(a)(ii)	Completed in 2016, no updates for 2017
5	ECA 1(3)(a)(iii) 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".	ECA 1(3)(a)(iii)	Completed in 2016, no updates for 2017
6	ECA 1(3)(b)(i) 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.	ECA 1(3)(b)(i)	No changes made in 2017
7	ECA 1(3)(b)(ii) 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.	ECA 1(3)(b)(ii)	N/A
8	As-built Drawings ECA 1(4) (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.	ECA 1(4)	As-built drawings were located in the Visitor Center and Covanta Administration building. The most recent date on the as-builts located in the Visitor Center was October 27, 2016. Facility staff noted that there were no changes in 2017.

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

Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
9	<p>Interpretation ECA 1(5) 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.</p>	<p>ECA 1(5) ECA 1(6) ECA 1(7) ECA 1(8)</p>	<p>N/A - interpretations of conflicting instructions reported by Region of Durham personnel not to be an issue.</p>
10	<p>Other Legal Obligations ECA 1(9) 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.</p>	<p>ECA 1(9)</p>	<p>N/A Legal Listing is maintained for the Facility's ISO:14001 Certification. Region staff confirm legal regulation updates</p>
11	<p>Adverse Effects ECA 1(10) 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. (11) 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. (12) 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. (13) 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.</p>	<p>ECA 1(10) ECA 1(11) ECA 1(12) ECA 1(13)</p>	<p>(11) SOPs in place to prevent adverse effects. No reports of adverse effects reported in 2017. (12) Legal obligations acknowledged by Region of Durham personnel. Covanta maintains an environmental legal registry (13) Daily checklist are completed to identify negative effects. No issues with dust, noise or litter reported by Covanta. Abell pest control has 43 exterior rodent control stations, with no ongoing issues reported. There are 23 indoor stations.</p>
12	<p>Change of Ownership ECA 1(14) amended 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: (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>	<p>Amended ECA 1(14) on October 24, 2014</p>	<p>No change of Ownership in 2017</p>
13	<p>ECA 1(15) amended 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>	<p>Amended ECA 1(15) on October 24, 2014</p>	<p>No change of Ownership in 2017</p>

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

Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
14	<p>Inspections by the Ministry ECA 1(16) 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: (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>	ECA 1(16)	MOECC Non-Hazardous Waste Transfer Processing Inspection Report, report dated March 27, 2018, inspection date October 31, 2017 - no compliance issues noted, no actions required MOECC Air Facility Inspection Report dated March 27, 2018. Inspection start date Nov 15, 2017 and inspection finish date Dec 18, 2017. No actions required.
15	<p>Information ECA 1(17) 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>	ECA 1(17)	2017 ECA Annual Report Facility operating in compliance with the ECA and EA with the exception of 2 events in 2017 (no excursions to Schedule C Performance Requirements). Described in Section 5.4 of ECA Report.
16	<p>ECA 1(18) 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: (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>	ECA 1(18)	N/A
17	<p>ECA 1(19) 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>	ECA 1(19)	Copies are available on-site.
18	<p>SERVICE AREA, APPROVED WASTE TYPES, RATES and STORAGE ECA 2(1) 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>	ECA 2(1)	Section 2.2 Waste Source of 2017 ECA Annual Report.
19	<p>ECA 2(2) The operation of this Site is limited to: (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>	ECA 2(2)	Refer to Item 18. 2016 Durham Region Waste Diversion Report York 2016 Annual Waste Diversion Report Staff description of programs in place.
20	<p>ECA 2(3) The following Unacceptable Waste is prohibited from being accepted at the Site: (a) hazardous waste, as defined in the O. Reg. 347; (b) wastes which have been source-separated for the purposes of diversion;</p>	ECA 2(3)(a,b)	Project Agreement S.32.3, SOP DYEC-REF-007 Unacceptable Waste Receiving, Handling, Storage and Disposal lists the unacceptable waste. Observe on-site
21	<p>ECA 2(3) (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>	ECA 2(3)(c)	See Item 18.
22	<p>ECA 2(4) 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>	ECA 2(4)	Section 2.3 of the 2017 ECA Report. Maximum amount of waste received in one day was 986.12 tonnes on August 8, 2017.
23	<p>Storage Restrictions: Solids ECA 2(5)(a) A maximum of 7,350 cubic metres shall be stored inside the Waste pit within the Tipping Building as shown in the Supporting Documentation.</p>	ECA 2(5)(a)	Section 2.3 of the 2017 ECA Report. Maximum amount of waste stored in one day was 6,723 m ³ .

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

Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
24	ECA 2(5)(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).	ECA 2(5)(b)(i, ii)	Observed 2 rejected waste bins in the Tipping area during site visit. 2017 ECA Annual Report: Section 2.4 states that there were no hazardous loads rejected in 2017 due to radiation. There were 4 shipments of unacceptable waste removed from the facility within 90 days of generation. One shipment of non processable items was removed on December 28, 2017.
25	ECA 2(5)(b)(iii) amended 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.	Amended ECA 2(5)(b)(iii) on August 12, 2014	Loader in Ash residue building observed during site visit.
26	ECA 2(5)(c) amended 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.	Amended ECA 2(5)(c) on March 14, 2016	2017 ECA Annual Report Table 6 (daily maximum of 50 tonnes reported in September), 1 dedicated bunker. The size of the bunker will not permit the storage of the maximum allowable limit.
27	ECA 2(5)(d) amended 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.	Amended ECA 2(5)(d) on March 14, 2016	2017 ECA Annual Report Table 6 (daily maximum of 20 tonnes reported in May or December), 1 dedicated bunker. The size of the bunker will not permit the storage of the maximum allowable limit.
28	ECA 2(5)(e) amended 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.	Amended ECA 2(5)(e) on March 14, 2016	2017 ECA Annual Report Table 6 (daily maximum of 259 tonnes reported in July), 2 dedicated bunker. The size of the bunker will not permit the storage of the maximum allowable limit.
29	ECA 2(5)(f) amended 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.	Amended ECA 2(5)(f) on March 14, 2016	2017 ECA Annual Report Table 6 (daily maximum of 180 tonnes reported in March). The size of the bunker will not permit the storage of the maximum allowable limit.
30	ECA 2(5)(g) 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.	ECA 2(5)(g)	Tank observed during site visit.
31	ECA 2(5)(h) 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.	ECA 2(5)(h)	Lime storage vessel observed during site visit.
32	ECA 2(5)(i) If required, recirculated residue shall be stored in one (1) or more indoor tank(s), located within the confines of the APC Building.	ECA 2(5)(i)	Observed during site visit.
33	ECA 2(5)(j) amended 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.	Amended ECA 2(5)(j) on March 14, 2016	Silo observed during site visit.
34	ECA 2(5)(k) amended 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.	Amended ECA 2(5)(k)	Silo observed during site visit.
35	Liquids ECA 2(5)(l)(i) amended 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.	Amended ECA 2(5)(l)(i) on March 14, 2016	Storage vessel observed during site visit.
36	ECA 2(5)(l)(ii) 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	ECA 2(5)(l)(ii)	Monitoring/alarm equipment observed during site visit.
37	ECA 2(5)(l)(iii) 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.	ECA 2(5)(l)(iii)	Containment observed during site visit.

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

Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
38	ECA 2(6) No outdoor storage of waste, including storage in vehicles, is approved under this Certificate	ECA 2(6)	None observed during site visit.
39	ECA 2(7) 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.	ECA 2(7)	During the site visit it was observed that storage and containment of wastes was managed to prevent an adverse effect.
40	ECA 2(8)(a) amended Waste received at the Site shall be processed within six (6) days from its receipt at the Site.	Amended ECA 2(8)(a) on March 14, 2016	See item 41.
41	ECA 2(8)(b) amended 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.	Amended ECA 2(8)(b) on March 14, 2016	Covanta DYEC - Notice of Emergency Storage of Waste Letter, dated February 2, 2017 (as result of the unplanned shut-down of boiler #2 on January 27, 2017 and the orderly shutdown of Boiler #1 on February 5, 2017). Covanta DYEC - Notice of Emergency Storage of Waste Letter Update, dated February 10, 2017 Covanta DYEC DYEC - Termination of Notice of Emergency Storage of Waste, dated April 5, 2017
42	ECA 2(9) 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.	ECA 2(9)	Maximum storage capacity not reached in 2017, 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.	ECA 3(1)	Observed sign during site visit and included all items listed.
44	ECA 3(2) 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.	ECA 3(2)	Observed during site visit.
45	ECA 3(3) 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.	ECA 3(3)	Observed "no smoking" signs during site visit. There were two outdoor flammable storage locations that did not have a sign posted or it was not visible; outside Residue Building (no sign) and CEM lab (not visible).
46	ECA 3(4) 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.	ECA 3(4)	Observed signs during site visit
47	ECA 3(5) The Owner shall post appropriate and visible signs along the traffic route providing clear directions to the Site.	ECA 3(5)	Observed signs during site visit
48	ECA 3(6) 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.	ECA 3(6)	Observed signs during site visit. Gate from road to Covanta main office had a lockable gate.

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

Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
49	ECA 3(7) 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.	ECA 3(7)	Observed during site visit.
50	ECA 3(8) 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.	ECA 3(8)	Observed on-site and waste is stored inside. Waste areas are well labeled. Residual Waste is stored in the Residue Building which was noted to be dusty. Site personnel are provided with PPE. Hygiene assessments are conducted regularly as stated by facility personnel.
51	Site Operations: Operating hours: ECA 4(1)(a) The Site is approved to operate twenty-four (24) hours per day three hundred and sixty-five (365) days per year. ECA 4(1)(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.	ECA 4(1)(a) ECA 4(1)(b)	(a) Site hours confirmed by Covanta staff (b) Scale hours and Covanta staff confirmed that waste and residual waste are only transferred from the Site between 7:00am and 7:00 pm Monday to Saturday.
52	ECA 4(1)(c) 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.	ECA 4(1)(c)	i) no emergency event was reported in 2017. ii) N/A iii) no complaints reported regarding waste shipments outside of the approved hours.
53	ECA 4(2) Site Operations: Incoming Waste receipt: (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.	ECA 4(2)	(a) (i) observed in the scale house. Training documents and SOPs in Scale House. (ii) observed radiation detection equipment (b) (i) observed visual inspection of incoming waste in waste pit (ii) observed manual visual inspection and sorting of incoming waste (c) confirm with scale house and Covanta (d) observed during unloading
54	ECA 4(3) Site Operations: Unacceptable Waste handling: (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.	ECA 4(3)	4(3)(a)(i-iii) SOP DYEC-REF-007 Unacceptable Waste Receiving, Handling, Storage and Disposal. Observed during site visit 4(3)(iv) Confirmed with Waste Manifests for 2017. 4(3)(b) Facility observed to be enclosed within the Tipping building during site visit. Also refer to Item 24.
55	ECA 4(4) Waste Sorting: (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.	ECA 4(4)	During the site visit unacceptable waste was observed to be segregated and sorted in the Tipping Building.

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

Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
56	<p>ECA 4(5)(a) Residual Waste Handling and Disposal: (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>	ECA 4(5)(a)	<p>i) Observed enclosed conveyors and enclosed buildings during the site visit. ii) Observed during the site visit.</p>
57	<p>ECA 4(5) Residual Waste Handling and Disposal: (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>	ECA 4(5)(b) Amended ECA 4(5)(b)(iii) on October 24, 2014	<p>b) i) confirmed with site visit ii-iii) Loader for Residual waste remains in the Residue Building</p>
58	<p>ECA 4(5) Residual Waste Handling and Disposal: (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>	ECA 4(5)(c)	<p>4(5)(c)(i) Only approved residual waste haulers are used, listed in 2017 Odour Management & Mitigation Monitoring Report, Table 1: Challenger Motor Freight Inc. U-Pak Disposals Ltd. ECL Carriers GP Inc. J.E.Culp Transport 4(5)(c)(ii) Observed only covered transport vehicles on-site</p>
59	<p>ECA 4(5) Residual Waste Handling and Disposal: (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>	ECA 4(5)(d)	<p>Section 3.0 of the 2017 ECA Annual Report indicates that the residual waste was transferred to Walker Niagara Falls and Walker Thorold Landfill.</p>
60	<p>ECA 4(5) Residual Waste Handling and Disposal: 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>	Amended ECA 4(5)(e) on August 12, 2014	<p>The two bunkers were observed during the site visit. 2017 ECA Annual Report Table 6 states that the daily maximum storage of bottom ash residual waste was 259 tonnes in July 2017. See Item 28 - Removed maximum storage duration - Amendment March 14, 2016.</p>
61	<p>ECA 4(6) Wastewater Management (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>	ECA 4(6)(a)	<p>No process drains to the sanitary or storm sewers. Two settling ponds observed during the site visit.</p>

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Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
62	<p>ECA 4(6) Wastewater Management (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.</p>	ECA 4(6)(b)	See item 61 (b) Observed boiler holding tank and wastewater settling basin. Observed drains in process building going to settling basin.
63	<p>ECA 4(6) Wastewater Management (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.</p>	ECA 4(6)(c)	Observed wastewater pumps no leaks or drips observed.
64	<p>ECA 4(6) Wastewater Management (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.</p>	ECA 4(6)(d)	i) observe during site visit ii) using the frac tank to pump overflow, then release back to settling basin when water level drops
65	<p>ECA 4(6) Wastewater Management (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.</p>	ECA 4(6)(e)	Covanta identified that the sumps, drains and holding areas are emptied and cleaned out as required.
66	<p>ECA 4(6)(f) 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.</p>	ECA 4(6)(f)	A frac tank is used to store excess water from the settling basin during boiler shut down. Water is then fed back into the process. Based on the 2017 Tonnage Report 10.31 tonnes of excess waste water from the settling basin was shipped off-site on August 24, 2017.
67	<p>ECA 4(6) (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.</p>	ECA 4(6)(g)	Slope was observed during the site visit.
68	<p>ECA 4(6) (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.</p>	ECA 4(6)(h)	No odour observed during site visit. See item 66.
69	<p>ECA 4(7) All activities approved under this Certificate shall only be carried out by appropriately Trained Personnel.</p>	ECA 4(7)	Observed Training records on Covanta server.
70	<p>5. EQUIPMENT and SITE INSPECTIONS and MAINTENANCE Operation and Maintenance (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;</p>	ECA 5(1)(a)	Observed digital copies in Covanta Library

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Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
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/PC/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;	ECA 5(1)(b to g)	Observed digital copies in 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.	ECA 5 (1)(h to o) Amended ECA 5(1)(p) on March 14, 2016	h and i) as per Item 70. Outside Environmental checklist maintained by COVANTA (j) See Region EA and Public complaint SOP on-site. k, l) Covanta DYEC Emergency Action Plan/Fire Safety Plan Revision 9.0 Updated October 14, 2016 m) Covanta SOP n) Covanta training requirements o) Covanta Study Guide Operator Qualification Program p) See item 41
73	ECA 5(2) 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.	ECA 5(2)	as per Item 70
74	ECA 5(3) The Owner shall implement the operation, maintenance, preventative maintenance and calibration procedures set out in the Operations and Maintenance Manual required by this Certificate.	ECA 5(3)	Covanta commented that the 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	Critical Spare Parts ECA 5(4)(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.	ECA 5(4)	Consumables, Equipment and Spare Parts DYEC Equipment Listing - December 31, 2017. Includes asset ID, tag number and description. Letter date January 30, 2018 to Durham Region.
76	Inspections ECA 5(5) 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;	ECA 5(5)(a to c)	Outside Environmental checklist (daily and weekly) were observed.

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Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
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.	ECA 5(5)(d to h)	Outside Environmental checklist (daily and weekly) were observed.
78	Inspections ECA 5(6) 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.	ECA 5(6)	Daily check logs (completed by both Covanta and the Region) and weekly inspections completed by Covanta. Actions are taken immediately or added to the task management system if maintenance is required.
79	Inspections and Maintenance of the Works ECA 5(7) 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.	ECA 5(7)	Ponds were not cleaned out in 2017. They are inspected daily and weekly by Covanta staff.
80	Removed extraneous duplicate reference from this Table (see item 85)	ECA 6 (2)(c)(ii)	
81	6. PERFORMANCE REQUIREMENTS ECA 6(1) 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.	ECA 6(1)	6(1)(a) 2017 Odour Management & Mitigation Monitoring Report, section 4.3 Source Odour Sampling. The maximum 10-minute average was 0.28 OU, less than 1.0 OU as stated in Schedule B. (b and c) noise not required, see item 97
82	ECA 6(2) 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.	ECA 6(2)(a)	Covanta Environmental Notification Report was used to document one low temperature occurrence on April 14, 2017. Root cause analysis was completed for the incident.
83	ECA 6(2)(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.	ECA 6(2)(b)	Covanta Environmental 5-Day Notification Report used to document December 14, 2017 low oxygen level. MOECC informed about event via email.
84	ECA 6(2)(c)(i) 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.	ECA 6(2)(c)(i)	Completed and no updates in 2017
85	ECA 6(2)(c)(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 25°C and a reference pressure of 101.3 kilopascals, after the first twelve months following the completion of the first Source Testing program.	ECA 6(2)(c)(ii)	Completed and no updates in 2017
86	ECA 6(2)(d) 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.	ECA 6(2)(d)	2017 ECA Annual Report, section 5.4 states there were no excursions to Schedule C

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Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
87	ECA 6(2)(e) 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.	ECA 6(2)(e)	Observed on-site
88	ECA 6(2)(f) 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.	ECA 6(2)(f to h)	Observed in Control Room
89	ECA 6(3) 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.	ECA 6(3)	Observed on-site
90	ECA 6(4) 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.	ECA 6(4)	no occurrence reported in 2017
91	Residual Waste Compliance Criteria ECA 6(5)(a) 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.	ECA 6(5)	Section 3.0 of 2017 ECA Annual Report states that the waste was confirmed to be non-hazardous.
92	Residual Waste Compliance Criteria ECA 6(6) 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.	ECA 6(6)	See item 91
93	TESTING, MONITORING and AUDITING Source Testing ECA 7(1) 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.	ECA 7(1)	May 2017 Voluntary Compliance Emission Testing Program Report, Ortech, August 15, 2017. 2017 Compliance Emission Testing Report, Ortech, November 22, 2017. Ortech DYEC 2017 Compliance Emission Testing in Accordance with Amended ECA, dated November 22, 2017
94	Continuous Monitoring ECA 7(2) 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.	ECA 7(2)	Observed online and in control room.

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Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
95	<p>Long-Term Sampling for Dioxins and Furans ECA 7(3)(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. (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>	ECA 7(3)	SOP ENV-1 CEMS AMESA Cartridge replacement, December 7, 2016 - Draft. Facility is looking into AMESA plan and will update.
96	<p>Ambient Air Monitoring ECA 7(4) (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. 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. 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>	ECA 7(4)	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 2017: Q1 - Quarterly Ambient Air Quality Monitoring Report, Stantec, May 9, 2017 (submitted May 12, 2017) Q2 - Quarterly Ambient Air Quality Monitoring Report, Stantec, August 9, 2017 (submitted August 14, 2017) Q3 - Quarterly Ambient Air Quality Monitoring Report, Stantec, November 14, 2017 (submitted November 14, 2017) Q4 - Quarterly Ambient Air Quality Monitoring Report, Stantec, February 9, 2018 (submitted February 14, 2018) website: Posted on Regions website: https://www.durhamyorkwaste.ca/Documents/MonitoringPlansReports/AmbientAir.aspx
97	<p>Noise Monitoring - Acoustic Audit ECA 7(5) revoked</p>	Revoked ECA 7(5) on February 24, 2016	See 2017 ECA Annual Report, Section 7. A revised Noise Monitoring and Reporting Plan was submitted to the MOECC on June 27, 2017. Acknowledgement was received by MOECC on September 21, 2017. The February 24, 2016 amendment notice 4 revoked the requirement to conduct annual acoustic measurements.
98	<p>Noise Monitoring - Acoustic Audit 7(6) revoked</p>	Revoked ECA 7(6) on February 24, 2016	See Item 97.

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Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
99	<p>Residual Waste Testing ECA 7(7) (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. (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>	ECA 7(7)(a to b)	Complete and no updates in 2017.
100	<p>(c) The Testing Protocol shall include the rationale for the proposed methods and the following: (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; (ii) sample(s) handling and preserving procedures; (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 (iv) a testing protocol for the bottom ash during the Site commissioning period. (d) The Owner shall implement the Testing Protocol on the Commencement Date of Operation.</p>	ECA 7(7)(c to d)	The MOECC approved the Ash Sampling and Testing Protocol dated June 2014 was implemented on the Commencement Date of Operation, February 9, 2015.
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>	Added ECA 7(7)(e) on August 12, 2017	The required bottom and fly ash compliance testing was completed (see 2017 Annual ECA Report, Section 3).
102	<p>Residual Waste Testing ECA 7(8) For handling of the bottom ash as a solid non-hazardous waste, the Owner shall follow the following schedule for compliance testing: (a) for the Site commissioning period, the bottom ash shall be tested in accordance with the Testing Protocol approved by the Director; (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>	ECA 7(8)(a to b)	a) completed and no updates in 2017 b) see item 101
103	<p>(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.</p>	ECA 7(8)(c to d)	See item 101.

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Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
104	7 (9) (a) 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.	ECA 7(9)(a)	See item 101.
105	ECA 7(9)(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.	ECA 7(9)(b)	See item 101.
106	Soil Testing: ECA 7(10)(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.	ECA 7(10)	a) DYEC 2017 Soil Testing Report, RW/DI, November 20, 2017. The next soil sampling will take place in August 2020. b) DYEC Submission of the 2017 Soil Testing Report Letter dated November 24, 2017. Sampling was conducted on August 23, 2017 with laboratory results provided to the consultant on October 5, 2017. Resample was taken on October 18, 2017.
107	Disposal of Residual Waste ECA 7(11) 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. ECA 7(12) 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. ECA 7(13) 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.	ECA 7(11) ECA 7(12) ECA 7(13)	See item 101.
108	Groundwater and Surface Water Monitoring ECA 7(14) (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.	ECA 7(14)	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. b) 2016 Annual Groundwater and Surface Water Monitoring Report, RW/DI, April 13, 2017 (submitted April 28, 2017 to MOECC). Response letter from MOECC letter dated June 5, 2017 - no concerns identified. c) posted on web site: https://www.durhamyorkwaste.ca/Documents/MonitoringPlansReports/GroundSurfaceWaterReports.aspx

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Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
109	<p>ECA 8 NUISANCE IMPACT CONTROL and HOUSEKEEPING Odour Management (1) 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 <u>Contingency and Emergency Response Plan</u>.</p>	ECA 8(1)	Engineering control observed in place and minimal odour noted during site visit. 2017 Odour Management & Mitigation Monitoring Report, November 2017, describes preventative and control measures for 2017.
110	<p>ECA 8(2) 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. (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. (4) The Owner shall undertake appropriate housekeeping activities, including regular cleaning of the tipping floor to control potential sources of fugitive odour emissions. (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>	ECA 8(2) ECA 8(3) ECA 8(4) ECA 8(5)	8(2) Observed during site visit 8(3) Observed during site visit - no reported issues or upsets in 2017. 8(4) Interior of tipping floor was observed to be clean during site visit 8(5) No waste handling equipment or storage containers were stored outside.
111	<p>ECA 8 (6) 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. (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. (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. (iii) These tests shall be repeated as directed or agreed by the District Manager. (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>	ECA 8(6) ECA 8(7) ECA 8(8)	No updates for 2017.
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: (i) identification of all potential sources of odourous emissions;(ii) description of the preventative and control measures to minimize odourous emissions from the identified sources; (ii) description of the preventative and control measures to minimize odourous emissions from the identified sources; (iii) procedures for the implementation of the Odour Management and Mitigation Plan; (iv) inspection and maintenance procedures to ensure effective implementation of the Odour Management and Mitigation Plan; and (v) procedures for verification and recording the progress of the implementation of the Odour Management and Mitigation Plan. (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>	ECA 8(9)	Odour Management and Mitigation Plan, Golder, Issued August 2011 and Revised December 2014 (i) Section 4.1 (ii) Section 4.4 (iii) Section 4.5 (iv) Section 5.0 (v) Section 6.0 (b) Acceptance letter from MOECC, August 21, 2012, regarding Odour Management and Mitigation Plan

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

Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
113	<p>ECA 8(10) Vehicles and Traffic (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. (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. (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. (d) Any necessary truck washing shall occur only in the designated wash down area of the Tipping Building or the Residue Building.</p>	ECA 8(10)	a) None observed during site visit. B) Included in Scale House SOP c) None noted for 2017. d) As stated with on-site staff.
114	<p>ECA 8(11) 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>	ECA 8(11)	Did not observe queuing or parked vehicles waiting to enter the site during the site visit.
115	<p>ECA 8(12) Litter The Owner shall: (a) take all practical steps to prevent the escape of litter from the Site; (b) pick up litter around the Site on a daily basis, or more frequently if necessary; and (c) if necessary, erect litter fences around the areas causing a litter problem.</p>	ECA 8(12)	There are site wide initiatives for regular litter removal. However, minor litter was observed at the site on April 4 and 5, 2018 (there were extremely high winds noted that day and a recent snow melt).
116	<p>ECA 8(13) Dust The Owner shall ensure that all on-site roads and operations/yard areas are regularly swept/washed to prevent dust impacts off-Site.</p>	ECA 8(13)	DYEC-Fugitive Dust and odour control SOP D-ENV-003 - Sweeper log, Outside environmental checklist.
117	<p>ECA 8(14) Vermin and Vectors The Owner shall: (a) implement necessary housekeeping procedures to eliminate sources and potential sources of attraction for vermin and vectors; and (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>	ECA 8(14)	Abell Pest Control Plan, last updated Jan 4, 2018. Pest control bait stations observed at fenced perimeter near Tipping Floor area.
118	<p>Visual Screening ECA 8(15) The Owner shall provide visual screening for the Site in accordance with the documentation included in the attached Schedule "A".</p>	ECA 8(15)	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.

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

Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
119	<p>9. STAFF TRAINING ECA 9(1) (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>	ECA 9(1)	Covanta Training Matrix included ECA training requirements. Covanta also has Operator Qualification Program pertaining to job specific training requirements.
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>	ECA 9(1)	See item 119.
121	<p>ECA 9(2) 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>	ECA 9(2)	See item 119.
122	<p>10. COMPLAINTS / ODOUR-CONTAMINANT EMISSIONS RESPONSE PROCEDURE ECA 10(1) 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>	ECA 10(1)	DYEC from Waste Complaint Protocol for Design, Construction and Operations, June 20, 2011 Online Feedback Form, email or telephone number as per website.
123	<p>ECA 10(2) 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>	ECA 10(2)	As per the June 2017 DYEC Complaint and Inquiry Log, a complaint regarding noise was received via project team web mail on June 27, 2017 at 10:04 am. A response to the person was sent on June 27, 2017 at 11:19 am. The complaint was reported to the MOECC on June 28, 2017. MOECC response was received.
124	<p>Step 1: Record of Complaint/Emission Event ECA 10 (2)(a) (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>	ECA 10(2)(a)	See item 123 .

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

Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
125	<p>Step 2: Investigation and Handling of Complaint/Emission Event ECA 10(2)(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>	ECA 10(2)(b)	See item 123.
126	<p>ECA 10(2)(c) 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>	ECA 10(2)(c)	See item 123.
127	<p>ECA 10(3) 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>	ECA 10(3)	N/A no equipment upset or malfunction related to Complaint/Emission event in 2017.
128	<p>ECA 10(4) 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.</p>	ECA 10(4)	See item 127.
129	<p>11. CONTINGENCY and EMERGENCY RESPONSE PLAN ECA 11 (1)(a) 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. ECA 11(2) 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;</p>	ECA 11 (1) ECA 11(2)(a)	<p>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.</p>
130	<p>ECA 11 (2)(b) a list of Site personnel responsible for the implementation of the contingency measures and various emergency response tasks and their training requirements; ECA 11 (2)(c) a list of equipment and materials required for the implementation of the contingency measures and the emergency situation response; ECA 11 (2)(d) maintenance and testing program for equipment required for the implementation of the contingency measures and the emergency situation response; ECA 11 (2)(e) procedures to be undertaken as part of the implementation of the contingency measures and the emergency situation response; ECA 11 (2)(f) names and telephone numbers of waste management companies available for emergency response;</p>	ECA 11(2)(b to f)	<p>Spill Contingency & Emergency Response Plan, January 13, 2014 (submitted January 29, 2014). 11(2)(b) Appendix B3 and Appendix D1 and D2. 11(2)(c) Section 11 Spill kit inventory, Section 5 Emergency equipment and testing 11(2)(d) Section 5 Schedule for inspections. 11(2)(e) Section 6. 11(2)(f) Appendix B3.</p>

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

Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
131	<p>ECA 11 (2)(g) 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;</p> <p>ECA 11 (2)(h) procedures and actions to be taken should the incoming Waste not meet the applicable quality criteria specified in this Certificate;</p> <p>ECA 11 (2)(i) procedures and actions to be taken should the outgoing Residual Waste fail to meet the criteria specified in this Certificate;</p> <p>ECA 11 (2)(j) procedures and actions to be taken should the current disposal options for the outgoing Residual Waste become unavailable;</p> <p>ECA 11 (2)(k) 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;</p> <p>ECA 11 (2)(l) procedures and actions to be taken should the Owner be unable to maintain the negative pressure in the Tipping Building;</p> <p>ECA 11 (2)(m) procedures and actions to be taken should the occurrence of Complaints require the Owner to suspend the <u>waste processing activities at the Site; and</u></p>	ECA 11(2)(g to m)	Spill Contingency & Emergency Response Plan, January 13, 2014 (submitted January 29, 2014). 11(2)(g) Appendix B3. 11(2)(h) Section 7. 11(2)(i) Section 7 Waste Procedures 11(2)(j) Section 7 Waste Procedures 11(2)(k) Section 9 and Section 10. 11(2)(l) Section 9 Procedure for Negative Pressure. 11(2)(m) Section 8 - Complaints.
132	<p>ECA 11 (2)(n) 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:</p> <p>(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;</p> <p>(ii) CEM Systems indicate that the Boilers and associated APC Equipment have been out of compliance with the Performance Requirements;</p> <p>(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</p> <p>(v) description of the preventative and control measures to minimize the occurrence or impacts of the above incidents; and</p>	ECA 11(2)(n)(i to v)	Spill Contingency & Emergency Response Plan, January 13, 2014 (submitted January 29, 2014). 11(2)(n) Section 10 Risk Analysis & Preventative Measures, Section 11 Spills 11(2)(n)(i) Section 10 CEMs 11 (2) (n) (ii) Section 10 CEMs 11 (2) (n) (iii) Section 10 CEMs 11 (2) (n) (iv) Section 10 Power Failures 11 (2) (n) (v) Section 10 Risk Analysis & Preventative Measures
133	<p>(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.</p>	ECA 11 (2)(n)(vi)	Spill Contingency & Emergency Response Plan, January 13, 2014 (submitted January 29, 2014). 11(2)(n)(vi) Section 12 Shut Down of Facility - Complete & Controlled
134	<p>ECA 11 (3) 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. ECA 11 (4) 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>ECA 11 (5) 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>ECA 11 (6) 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>ECA 11 (7) 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>	ECA 11 (3) ECA 11 (4) ECA 11 (5) ECA 11 (6) ECA 11 (7)	11(3) Spill Contingency & Emergency Response Plan, January 13, 2014 (submitted January 29, 2014). 11(4) The current Spill Contingency and Emergency Response Plan is not-up-to-date as it was written during the construction phase. Covanata has their own internal DYEC Emergency Action Plan/Fire Safety Plan Revision 9.0 Updated October 14, 2016 and Spills Clean Up and Disposal SOP (S-ENV-002) dated March 11, 2014 that their employees are trained on. Spill plan should be updated to reflect current on-site activities. Includes site plan 11(5) Emergency contact list posted on Covanta Boardroom 11(6) See ECA 11(4) above 11(7) ECA Notice No. 1 (Issued August 12, 2014) included the Spill Contingency and Emergency Response Plan and updated Appendix A

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

Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
135	ECA 11(8) 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).	Added ECA 11(8) on August 12, 2014	See item 134.
136	ECA 12. EMERGENCY SITUATION RESPONSE and REPORTING (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. (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. (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. (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.	ECA 12	12(1) Completed as per Covanta DYEC Emergency Action Plan/Fire Safety Plan Revision 9.0 Updated October 14, 2016 - Spill Reporting Form
137	ECA 13. SUBMISSIONS to the REGIONAL DIRECTOR or DISTRICT MANAGER (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. (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: (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; (ii) failure of the APC Equipment associated with the Boilers; and (iii) power failure resulting in the use of the emergency diesel generator or Total Power Failure;	ECA 13(1) ECA 13(2a)	1) Complete and no update for 2017. 2) (i) and (ii) None reported for 2017. 2) (iii) On July 31, 2017 a power failure triggered the use of the diesel generator. DYEC confirmed that there was no 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. Based on the approved Air Emissions Monitoring Plan (dated February 2013), section 4.4 states that comparison to prescribed emission limits is only required for normal operating conditions under steady state, but does not include start-up, shut-down or malfunctions. .
138	13 (2) (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: (i) date of the occurrence; (ii) general description of the occurrence; (iii) duration of the occurrence; (iv) effect of the occurrence on the emissions from the Facility; (v) measures taken to alleviate the effect of the occurrence on the emissions from the Facility; and (vi) measures taken to prevent the occurrence of the same or similar occurrence in the future.	ECA 13(2)(b)	N/A see Item 137
139	ECA 13. SUBMISSIONS to the REGIONAL DIRECTOR or DISTRICT MANAGER CONTINUED (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. (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.	ECA 13(3) ECA 13(4)(a)	3) See item 148 4 a) DYEC Soils Testing Plan, Revision 3, March 7, 2014

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

Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
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>	ECA 13 (4)(b)	See item 106.
141	<p>ECA 14. RECORDS KEEPING</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>	ECA 14 (1) ECA 14 (2)	<p>1) Monthly meeting are conducted with the Region, Covanta and the MOECC.</p> <p>2) Records were available for review.</p>
142	<p>Daily Activities</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>	ECA 14(3)	Observed in scale house. Observed on the Covanta online library.
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>	ECA 14(3)	<p>e) see 2017 ECA Annual Report Table 6</p> <p>f) see Item 59</p> <p>g) and h) no trucks rejected in 2017</p> <p>i) complete daily environmental activity</p> <p>j and k) excel production stats</p>
144	<p>Monitoring and Testing Records</p> <p>ECA 14 (4) 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>	ECA 14(4)(a to c)	Observed digital records in the Control Room. CEMS data is also available online: https://www.durhamyorkwaste.ca/EmissionsData/EmissionsData.aspx

**Appendix D1
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Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
145	<p>ECA 14 (4) (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; (e) all records produced during any Acoustic Audit; (f) all records produced during any Source Testing; (g) all records produced by the long term sampling program for Dioxins and Furans required by this Certificate; (h) all records produced during the Residual Waste compliance testing; (i) all records produced during the Soil Testing; (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>	ECA 14(4)(d to k)	Facility operating in compliance with the ECA and EA with the exception of 2 events in 2017 (no excursions to Schedule C Performance Requirements). Described in Section 5.4 of 2017 ECA Annual Report.
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. (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>	ECA 14(4)(l to n)	2017 ECA Annual Report, section 5.4 states that the Facility is operating in compliance with the ECA and EA with the exception of 2 events in 2017 (no excursions to Schedule C Performance Requirements).
147	<p>Inspections/Maintenance/Repairs ECA 14 (5) 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>	ECA 14(5)	see Items above
148	<p>Emergency Situations ECA 14 (6) 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>	ECA 14(6)	Only spills were reported by facility staff to have occurred in 2017. Covanata Spill log was used to document spills. Covanta Spill Reporting Form dated July 17, 2017 was used to document activated carbon spill reported to MOECC (Reference number 4450-AP9R86).
149	<p>Complaints Response Records ECA 14 (7) The Owner shall establish and maintain a written or digital record of complaints received and the responses made as required by this Certificate.</p>	ECA 14(7)	2017 ECA Annual Report Section 13 and monthly complaints log.
150	<p>Training ECA 14 (8) 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>	ECA 14(8)	see above
151	<p>Reports ECA 14 (9) 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>	ECA 14(9)	Copies of reports available on-site.

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

Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
152	<p>15. REPORTING Annual Report (1) 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>	ECA 15(1a to 1c)	2017 Annual Report available on-site. Also observed was submission cover letter dated March 28, 2018 to the MOECC. The report was posted to the website on April 6, 2018.
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>	ECA 15(1e to 1h)	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 <u>prevent future Complaints and/or events that could lead to future Complaints</u>;</p>	ECA 15(1)(i to k)	See item 152.
155	<p>(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;</p>	ECA 15(1)(l to o)	See item 152.
156	<p>(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.</p>	ECA 15(1)(p to r)	See item 152.

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

Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
157	<p>Third Party Audit ECA 15 (2) (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: Page 43- Number 7306-8FDKNX (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. (3) 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.</p>	ECA 15 (2 to 3)	<p>DYEC Third Party Audit Report - Operations Year 2016, prepared by Malroz Engineering Incorporated, dated April 27, 2017 (letter to MOECC dated April 28, 2017). Addendum memorandum sent to MOECC on June 22, 2017. A copy of last year's audit was available on-site.</p>
158	<p>Soil Testing Report 15 (4) 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.</p>	ECA 15(4)	<p>a) DYEC 2017 Soil Testing Report, RWDI, November 20, 2017. The next soil sampling will take place in August 2020. b) DYEC Submission of the 2017 Soil Testing Report Letter dated November 24, 2017. Sampling was conducted on August 23, 2017 with laboratory results provided to the consultant on October 5, 2017. Resample was taken on October 18, 2017. Resampling was completed as per Soil Testing Plan Section 7. Contingency Plan.</p>
159	<p>PUBLIC ACCESS TO DOCUMENTATION ECA 16(1) 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.</p>	ECA 16(1)	<p>Website: https://www.durhamyorkwaste.ca/Documents/Documents.aspx Review computer available for public use c) As of April 5, 2018 the 2017 ECA Annual Report was not posted on the company website. The report was posted to the website on April 6, 2018. The report was available for inspection at the site.</p>
161	<p>(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.</p>	ECA 16(2)	See item 159.

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

Item	Condition	Condition of ECA & Amendments	Supporting Evidence April 4-5, 2018
162	ECA 17. ADVISORY COMMITTEE (1) The Regions shall establish an Advisory Committee in accordance with the requirements set out in the EA Approval.	ECA 17	Committee met on July 12, 2017.
163	ECA 18. CLOSURE of the SITE amended (1) 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. (2) 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.	Amended ECA 18 on October 24, 2014	N/A

Appendix D2
Environmental Assessment (EA) Audit Table

Item	Condition	Supporting Evidence April 4-5, 2018
1	General Requirements EA 2(1) 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 2017.
2	EA 2(2) These conditions do not prevent more restrictive conditions being imposed under other statutes.	see Item 1
3	EA 2(3) 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.	March 28, 2018 submission of 2017 Annual Report to MOECC
4	Public Record EA 3(1) 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	EA 3(2) 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) <u>Advisory Committee (as required in Condition 8 of this Notice of Approval).</u>	Copies of the 2017 ECA Annual Report by Owners (Januszkiewicz, McDowell and Neild) were sent to those listed as stated in the submission cover letter dated March 28, 2018.
6	EA 3(3) The EAAB file number EA-08-02 shall be quoted on all documents submitted by the proponent pursuant to this Condition.	MOECC file #: EA-08-02 was referenced on cover letter
7	Compliance Monitoring Program EA 4(1) The proponent shall prepare and submit to the Director a Compliance Monitoring program outlining how it will comply with conditions in the Notice of Approval and other commitments made in the environmental assessment. EA 4(2) 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. EA 4(3) The proponent shall implement the Compliance monitoring program as it may be amended by the Director.	4(1) Durham York Energy Centre Compliance Monitoring Program, dated October 14, 2011, submitted to MOECC October 14, 2011 4(2) Stated in submission letter to MOECC 4(3) no amendments in 2017. Storage Restrictions amended (dated March 14, 2016). Total Hydrocarbon monitor amended (dated March 14, 2016). Acoustic monitoring amended(dated Feb 24, 2016 and December 23, 2015). Other amendments for August 12 and <u>October 24, 2014.</u>
8	EA 4(4) 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 2017 Compliance and Monitoring Report.

Appendix D2
Environmental Assessment (EA) Audit Table

Item	Condition	Supporting Evidence April 4-5, 2018
9	EA 4(5) The Compliance Monitoring Program shall contain an implementation schedule.	See Appendix A of the 2017 Compliance and Monitoring Report. The actual or estimated completion dates are included.
10	EA 4(6) 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 2017.
11	EA 4(7) The proponent shall implement the Compliance Monitoring Program, as it may be amended by the Director.	DYEC 2017 Compliance Monitoring Report, Dated October 20, 2017.
12	EA 4(8) 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.	November 3, 2017 Submission of the 2017 Compliance Monitoring Report Letter. December 23, 2017 MOECC 2017 Compliance Report Acknowledgement Letter.
13	EA Compliance Reporting 5(1) The proponent shall prepare an annual Compliance Report 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.	DYEC 2017 Compliance Monitoring Report, Dated October 20, 2017
14	EA 5(2) 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. No updates in 2017.
15	EA 5(3) 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.	Acceptance letter from MOECC dated December 23, 2017 regarding the 2017 Compliance Monitoring Report
16	EA 5(4) The proponent shall submit annual Compliance Reports until all conditions in this Notice of Approval and the commitments in the environmental assessment are satisfied.	Acceptance letter from MOECC dated December 23, 2017 regarding the 2017 Compliance Monitoring Report
17	EA 5(5) 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.	Ongoing fulfillment of conditions. Refer to 2017 Compliance Monitoring Report.
18	EA 5(6) The proponent shall retain either on site or in another location approved by the Director, a copy of each of the annual Compliance Reports and any associated documentation of compliance monitoring activities.	Observed hard copy on site
19	EA 5(7) 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: https://www.durhamyorkwaste.ca/Documents/FacilityManagementPlans/ComplianceMonitoring.aspx
20	Complaint Protocol EA 6(1) The proponent shall implement a Complaint Protocol setting out how it will deal with and respond to inquires and complaints received during the design, construction and operation of the undertaking.	DYEC from Waste Complaint Protocol for Design, Construction and Operations, June 20, 2011. Approved by Director July 13, 2011. Six complaints received in 2017 as per 2017 Complaint and Inquiry Logs (4 in June, 1 in May, 1 in June)

Appendix D2
Environmental Assessment (EA) Audit Table

Item	Condition	Supporting Evidence April 4-5, 2018
21	EA 6(2) The Complaint Protocol shall be provided to the advisory committee for review prior to submission to the Director.	Completed in 2011. No updates in 2017.
22	EA 6(3) 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. No updates in 2017.
23	EA 6(4) 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.	Acceptance letter from MOECC dated December 23, 2017 regarding July and August 2017 Complaint and Inquiry Log
24	EA 6(5) 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 2017.
25	Community Involvement EA 7(1) The proponent shall prepare and implement a Community Communications Plan . The plan shall be prepared in consultation with the EAAB and to the satisfaction of the Director.	Durham York Energy Centre Community Communication Plan, issued September 2012, revised August 2013.
26	EA 7(2) 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.	The Plan was submitted to the MOECC on September 18, 2013 and approved by MOECC September 30, 2013
27	EA 7(3) 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.	Community Communications Plan: (a) Section 7.0 and 8.0. (b) Section 8.0 Communications Methods and Tools. (c) Section 8.3 Public Education & Community Outreach
28	EA 7(4) 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: a) Activities that are part of the undertaking, including monitoring activities; 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.	Durham York Energy Centre Community Communication Plan is posted on the website: https://www.durhamyorkwaste.ca/Documents/FacilityManagementPlans/CommunityCommunications.aspx (a) Available on website: https://www.durhamyorkwaste.ca/Documents/MonitoringPlansReports.aspx (b) Available on website: https://www.durhamyorkwaste.ca/Home/Home.aspx (c) Available on website: https://www.durhamyorkwaste.ca/Documents/FacilityManagementPlans/ComplaintInquiryLogs.aspx

Appendix D2
Environmental Assessment (EA) Audit Table

Item	Condition	Supporting Evidence April 4-5, 2018
29	EA 7(5) The proponent shall hold public meetings to discuss the design, construction and operation of the undertaking, including, but not limited to: a) At least one meeting prior to the start of construction; 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.	Meetings conducted prior to 2017. 7(5)(a) Notice to MOECC November 18, 2011. Meeting December 7, 2011. 7(5)(b) Notice to MOECC June 3, 2014. Meeting June 25, 2014. 7(5)(c) Notice to MOECC January 18, 2016. Meeting February 4, 2016
30	EA 7(6) The proponent shall provide notice of the public meetings a minimum of 15 days prior to the meeting.	Refer to Item 29
31	EA 7(7) 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	Advisory Committee EA 8(1) The proponent shall establish an advisory committee to ensure that concerns about the design, construction and operation of the undertaking are considered and mitigation measures are implemented where appropriate.	The last meeting of the advisory committee was held on July 12, 2017. The date of the next scheduled meeting is not listed on the website https://www.durhamyorkwaste.ca/PublicOutreach/EFWAC/UcomingMeetings.aspx .
33	EA 8(2) The proponent shall provide administrative support for the advisory committee including, at a minimum: a) Providing a meeting space for advisory committee meetings; b) Recording and distributing minutes of each meetings; c) Preparing and distributing meeting notices; and, d) Preparing an annual report about the advisory committee's activities to be submitted as part of the <u>Compliance Reports required by Condition 5 of this Notice of Approval</u> .	Agenda EFWAC Meeting #14 July 12, 2017 a) location indicated on meeting minutes b) refer to meeting minutes c) meeting notices are posted on the website d) Appendix C of the 2017 Compliance Monitoring Report includes the EFWAC activities
34	EA 8(3) The proponent shall invite one representative from each of the following to participate on the advisory committee: 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.	EFWAC Meeting Minutes #14 includes participants.
35	EA 8(4) 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.
36	EA 8(5) The proponent shall invite one representative from each of the following local community groups to participate on the advisory committee: a) Durham CLEAR; b) Durham Environmental Watch; and, c) Zero Waste 4 Zero Burning.	Completed.
37	EA 8(6) 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.
38	EA 8(7) A representative from the ministry shall be invited to attend meetings as an observer.	Completed.

Appendix D2
Environmental Assessment (EA) Audit Table

Item	Condition	Supporting Evidence April 4-5, 2018
39	<p>EA 8(8) 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> <ul style="list-style-type: none"> a) Compliance Monitoring Program required by Condition 4; b) Annual Compliance Report required by Condition 5; c) Complaint Protocol required by Condition 6; d) Community Communications Plan required by Condition 7; e) The annual reports required by Condition 10; f) Ambient Air Monitoring and Reporting Plan and the results of the ambient air monitoring program required by Condition 11; 	Completed. No updates in 2017.
40	<ul style="list-style-type: none"> 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. 	Completed. No updates in 2017.
41	<p>EA 8(9) 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>	Completed in 2011. No updates in 2017.
42	<p>EA 8(10) The Terms of Reference shall, at a minimum, include:</p> <ul style="list-style-type: none"> 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. 	Completed in 2011. No updates in 2017.
43	<p>EA 8(11) The proponent shall submit the advisory committee's Terms of Reference to the Director and Regional Director.</p>	Completed in 2011. No updates in 2017.
44	<p>Consultation with Aboriginal Communities</p> <p>EA 9(1) The proponent shall continue to consult with any interested Aboriginal communities during the detailed design and implementation of the undertaking.</p>	Completed in 2012. No updates in 2017.

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

Item	Condition	Supporting Evidence April 4-5, 2018
45	<p>Waste Diversion</p> <p>EA 10(1) 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.</p> <p>EA 10(2) 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>EA 10(3) The Waste Diversion Program Monitoring Plan shall provide a description of monitoring and reporting which shall at minimum include:</p> <p>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.</p> <p>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.</p> <p>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>10(3) refer to Plans in Item 45.</p> <p>Waste Management Annual Report 2016, Region of Durham and the Regional Municipality of York 2016 Annual Solid Waste Diversion Report (a) and (b) York pages 5 and 10-15, Durham pages 11 and 14-21 (c) Other diversion programs reported include; used cooking oil, construction and demolition materials, tire recycling, drywall, foam packaging, porcelain, household hazardous waste</p>
47	<p>EA 10(4) 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.</p> <p>10(5) 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 2016, Region of Durham, submitted to MOECC on November 3, 2017. The Regional Municipality of York 2016 Annual Solid Waste Diversion Report, submitted to the MOECC on October 24, 2017. Annual Acceptance letter from MOECC dated December 23, 2017 regarding 2016 Annual Waste Diversion Reports.</p> <p>10(5) Posted on website: https://www.durhamyorkwaste.ca/Documents/FacilityManagementPlans/WasteDiversionReports/WasteDiversionReports2016.aspx</p>

Appendix D2
Environmental Assessment (EA) Audit Table

Item	Condition	Supporting Evidence April 4-5, 2018
48	<p>Ambient Air Monitoring EA 11(1) The proponent shall prepare, in consultation with the ministry's Central Region Office and to the satisfaction of the Regional Director, an Ambient Air Monitoring and Reporting Plan for the undertaking.</p>	<p>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 2017: Q1 - Quarterly Ambient Air Quality Monitoring Report, Stantec, May 9, 2017 (submitted May 12, 2017) Q2 - Quarterly Ambient Air Quality Monitoring Report, Stantec, August 9, 2017 (submitted August 14, 2017) Q3 - Quarterly Ambient Air Quality Monitoring Report, Stantec, November 14, 2017 (submitted November 14, 2017) Q4 - Quarterly Ambient Air Quality Monitoring Report, Stantec, February 9, 2018 (submitted February 14, 2018)</p>
49	<p>EA 11(2) 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.</p>	<p>Completed in 2011. No updates in 2017.</p>
50	<p>EA 11(3) 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.</p>	<p>Completed in 2011. No updates in 2017.</p>
51	<p>EA 11(4) 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.</p>	<p>2017 Q4 Report: a) see section 1.2 Locations of Ambient Air Quality Monitoring Stations b) see section 1.1 Background and Objectives c) see section 2.2 Air Quality Contaminants of Concern d) Every submission to the MOECC offers availability to discuss the results. Informal meetings are conducted with the MOECC on a monthly basis.</p>
52	<p>EA 11(5) 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.</p>	<p>Quarterly Ambient Air Monitoring continued in 2017. (see item 56)</p>
53	<p>EA 11(6) 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.</p>	<p>No Changes in 2017. MOECC letter to Owners regarding 1st and 2nd quarterly reports for 2017.</p>

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

Item	Condition	Supporting Evidence April 4-5, 2018
54	EA 11(7) 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 2017: Q1 - Quarterly Ambient Air Quality Monitoring Report, Stantec, May 9, 2017 (submitted May 12, 2017) Q2 - Quarterly Ambient Air Quality Monitoring Report, Stantec, August 9, 2017 (submitted August 14, 2017) Q3 - Quarterly Ambient Air Quality Monitoring Report, Stantec, November 14, 2017 (submitted November 14, 2017) Q4 - Quarterly Ambient Air Quality Monitoring Report, Stantec, February 9, 2018 (submitted February 14, 2018)
55	EA 11(8) 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.	No audits conducted in 2017. Ambient Air Quality Monitoring Locations approved June 5, 2012, letter from MOECC.
56	EA 11(9) 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. Posted on website: https://www.durhamyorkwaste.ca/Documents/MonitoringPlansReports/AmbientAir.aspx Ambient Air Quality Monitoring Reports 2017: Q1 - Quarterly Ambient Air Quality Monitoring Report, Stantec, May 9, 2017 (submitted May 12, 2017) Q2 - Quarterly Ambient Air Quality Monitoring Report, Stantec, August 9, 2017 (submitted August 14, 2017) Q3 - Quarterly Ambient Air Quality Monitoring Report, Stantec, November 14, 2017 (submitted November 14, 2017) Q4 - Quarterly Ambient Air Quality Monitoring Report, Stantec, February 9, 2018 (submitted February 14, 2018)
57	EA Emissions Monitoring 12(1) 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.	Observed notification screen on Visitors Centre. May 2017 Voluntary Compliance Emission Testing Program Report, Ortech, August 15, 2017. 2017 Compliance Emission Testing Report, Ortech, November 22, 2017.
58	EA 12(2) The air emissions monitoring systems shall be installed and operational prior to the receipt of non-hazardous municipal solid waste at the site.	In place in 2017

Appendix D2
Environmental Assessment (EA) Audit Table

Item	Condition	Supporting Evidence April 4-5, 2018
59	EA 12(3) 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.	Revised Air Emission Monitoring Plan, Golder, February 2013 (submitted February 11, 2013). Final abatement plan submitted and accepted by MOECC in June 2016.
60	EA 12(4) 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.	a) Section 4.1 Identification of Emission Sources b) Appendix B: Continuous Emission Monitoring System and Appendix A: Manual Source Testing c) Section 4.3 Start and Frequency of Continuous Emissions Monitoring d) Section 4.4.1 Annual Reports e) Appendix A and B f) Section 4.5 Reporting on Excursions of Performance Requirement
61	EA 12(5) 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	EA 12(6) The proponent shall [prepare and] implement an Air Emissions Monitoring Plan 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. 12(7) The proponent shall post the reports of the air emissions monitoring systems on the proponents web site for the undertaking. 12(8) 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.	Refer to Item 59 12(6) Plan available on website: https://www.durhamyorkwaste.ca/Documents/MonitoringPlansReports/AirEmissionsMonitoringPlan.aspx 12(7) 2017 Reports available on website: https://www.durhamyorkwaste.ca/Documents/MonitoringPlansReports/AirEmissions/AirEmissions2017.aspx 12(8) Continuous Monitoring available on website for Boiler 1 and Boiler 2: https://www.durhamyorkwaste.ca/EmissionsData/EmissionsData.aspx
63	Air Emissions Operational Requirements EA 13(1) 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.	Compliance Emission Testing Report, Ortech, November 22, 2017. All concentrations were below the limits listed in Schedule C of the ECA (same list as Schedule 1 of EA Notice).
64	EA 13(2) 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	EA 13(3) 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.	Listed in the ECA Schedule C Performance Requirements - In-Stack Emission Limits

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

Item	Condition	Supporting Evidence April 4-5, 2018
66	<p>Daily Site Inspection EA 14(1) 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:</p> <ul style="list-style-type: none"> (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. 	<p>Observed perimeter fence and gated access to facility.</p> <p>Daily checklist are completed to identify negative effects. No issues with dust, noise or litter reported by Covanta. Abell pest control has 43 exterior rodent control stations, with no ongoing issues reported. There are 23 indoor stations.</p> <p>ECA 2017 Annual Report, section 1.1 Statement of Compliance</p>
67	<p>EA 14(2) 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.</p>	<p>Daily check logs (completed by both Covanta and the Region) and weekly inspections completed by Covanta. Actions are taken immediately or added to the task management system if maintenance is required.</p>
68	<p>Daily Site Inspection cont'd EA 14(3) 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> <ul style="list-style-type: none"> (a) the name and signature of the person that conducted the daily inspection; (b) the date and time of the daily inspection; (c) a list of deficiencies discovered during the daily inspection; (d) any recommendation for action; and, (e) the date, time and description of actions taken. <p>14(4) 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>	<p>Observed daily logs. Corrective actions completed same day unless noted otherwise on logs. Reported on outside Environmental checklist. Includes action taken to rectify and weekly Environmental Site Inspection.</p>
69	<p>Daily Record Keeping EA 15(1) The proponent shall maintain a written daily log which shall include the following information:</p> <ul style="list-style-type: none"> (a) Date; (b) Types, quantities and source of non-hazardous municipal solid waste received; (c) Quantity of unprocessed, processed and residual non-hazardous municipal solid waste on the site; (d) Quantities and destination of each type of residual material shipped from the site; (e) the record of daily site inspections required to be maintained by condition 	<p>2017 ECA Annual Report, Table 2: MSW Material Balance. Observed daily logs and PC scales tables during site visit.</p>

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Environmental Assessment (EA) Audit Table

Item	Condition	Supporting Evidence April 4-5, 2018
70	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; (g) A record of any waste that was refused at the site, including: amounts reason for refusal and actions taken; and, h) The name and signature of the person completing the report.	f) Spills report log observed g) no trucks rejected in 2017 h) observed daily logs
71	EA 15(2) 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	Observed on-site.
72	EA 15(3) 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.	Daily logs and associated documentation, were made available on-site
73	Third Party Audits EA 16(1) The proponent shall retain the services of a Qualified, Independent Professional Engineer to carry out an independent audit of the undertaking.	DYEC Third Party Audit Report - Operations Year 2016, dated April 27, 2017 prepared by Malroz Engineering Incorporated
74	EA 16(2) 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.	Letter to MOECC Third Party Independent Auditor Selection - Operations Phase EA Condition of Approval Number 16, dated December 19, 2017
75	EA 16(3) 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.	No change to audit plan see Item 73.
76	EA 16(4) The audit shall include, at a minimum, the following: a) A detailed walkthrough of the entire site; b) A review of all operations used in connection with the undertaking; and, 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. 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.	No change. Yes, for previous audits. See this report for compliance with Operations Phase Audit #3 (2017).
77	EA 16(5) 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.	Operations Phase Audit #2 - Submission Letter to the MOECC, April 28, 2017 (Audit completion date was April 27, 2017). Addendum to the 2016 Audit Report was submitted on June 22, 2017.
78	EA 16(6) 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.	Previous audit report were available on-site and on the company website
79	EA 16(7) 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.	See transmittals above. Available on site and online. June 22, 2017, for most recent submission.

Appendix D2
Environmental Assessment (EA) Audit Table

Item	Condition	Supporting Evidence April 4-5, 2018
80	EA 16(8) The proponent shall post the written audit report and any associated documentation available for the undertaking following submission of the report to the ministry	No change. See item 79.
81	Spill Contingency and Emergency Plan EA 17(1) The proponent shall prepare and implement a spill contingency and emergency response plan. 17(2) 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 at the site or such other date as agreed to in writing by the Director	17(1 and 2) Spill Contingency & Emergency Response Plan, January 13, 2014 (submitted January 29, 2014). ECA Notice No. 1 (Issued August 12, 2014) included the Spill Contingency and Emergency Response Plan.
82	EA 17(3) 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 spills 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:	(a) Section 5 & 10 (b) Appendix B-3 (c) Appendix B-1 & B-2 (d) Section 10 & 11 (e) Section 10
83	EA 17(3) f) 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.	(f) Section 11 (g) Section 7 & 12 (h) Section 5 & 11 (i) Section 4 (j) Section 10
84	EA 17(4) 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.	Refer to Item 81
85	EA 17(5) 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.	2017 ECA Annual Report Section 12 states that there were no reportable spills in 2017.
86	Odour Management and Mitigation EA 18(1) 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. 18(2) 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) Odour Management and Mitigation Plan, Golder, Issued August 2011 and Revised December 2014 (submitted to MOECC on January 8, 2015). 18(2) 2017 Odour Management & Mitigation Monitoring Report, November 2017 (submitted to MOECC November 24, 2017)

Appendix D2
Environmental Assessment (EA) Audit Table

Item	Condition	Supporting Evidence April 4-5, 2018
87	<p>EA 18(3) The Odour Management and Mitigation Plan shall include at a minimum:</p> <ul style="list-style-type: none"> 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. 	<p>Odour Management and Mitigation Plan, Golder, Issued August 2011 and Revised December 2014</p> <ul style="list-style-type: none"> (a) Section 4 and 7. (b) Section 5. (c) Section 6. (d) Section 7. (e) Section 8.2.3 (f) Section 7.
88	<p>EA 18(4) 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.</p>	<p>2017 Odour Management & Mitigation Monitoring Report, November 2017 (submitted to MOECC November 24, 2017)</p>
89	<p>EA 18(5) 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.</p> <p>EA 18(6) 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.</p>	<p>18(5) refer to Item 88 18(6) Report posted on website: https://www.durhamyorkwaste.ca/Documents/MonitoringPlansReports/Odour/OdourReports2017.aspx</p>
90	<p>Noise Monitoring and Reporting EA 19(1) The proponent shall prepare, and implement a Noise Monitoring and Reporting Plan for the undertaking.</p>	<p>Noise Monitoring and Reporting Plan, September 2011 (revised June 2017, submitted June 27, 2017)</p>
91	<p>EA 19(2) 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.</p>	<p>Letter from Owners to MOECC, dated September 15, 2011</p>
92	<p>EA 19(3) 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.</p>	<p>See 2017 ECA Annual Report, Section 7. A revised Noise Monitoring and Reporting Plan was submitted to the MOECC on June 27, 2017. Acknowledgement was received by MOECC on September 21, 2017. The February 24, 2016 amendment notice 4 revoked the requirement to conduct annual acoustic measurements.</p>
93	<p>EA 19(4) 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.</p>	<p>Website: https://www.durhamyorkwaste.ca/Documents/MonitoringPlansReports/Noise.aspx</p>
94	<p>Groundwater and Surface Water Monitoring and Reporting EA 20(1) 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.</p>	<p>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.</p>

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

Item	Condition	Supporting Evidence April 4-5, 2018
95	EA 20(2) The proponent shall provide the Groundwater and Surface Water Monitoring Plan to other any government agencies for review and comment, as may be appropriate.	No changes to Plan in 2017.
96	EA 20(3) 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.	20(3) (a) Section 2 and Section 3 of the Plan 20(3) (b) Section 2.6 and Section 3.4 of the Plan 20(3) (c) Section 2.4 and Section 3.4.1 of the Plan 20(3) (d) meeting are conducted monthly to discuss ECA
97	EA 20(4) 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	EA 20(5) 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	Groundwater and Surface Water Monitoring and Reporting EA 20(6) 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.	2016 Annual Groundwater and Surface Water Monitoring Report, RWDI, April 13, 2017 (submitted April 28, 2017 to MOECC). Response letter from MOECC letter dated June 5, 2017 - no concerns identified.
100	EA 20(7) 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.	refer to Item 99
101	EA 20(8) 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	EA 20(9) 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.	In 2017: (a) No spill was reported (b) No fire or explosion was reported (c) No process upset (d) No disruption to normal operations that may directly or indirectly have an impact on groundwater or surface water.
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.	Historical reports posted on website. https://www.durhamyorkwaste.ca/Documents/MonitoringPlansReports/GroundSurfaceWaterReports.aspx

Appendix D2
Environmental Assessment (EA) Audit Table

Item	Condition	Supporting Evidence April 4-5, 2018
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.	2017 ECA Annual Report Section 2.2 identifies that waste is collected and inspected at the following transfer stations: Durham: 1) Miller Waste Systems - Pickering 2) Miller Waste Systems - Whitby 3) Waste Management - Courtice York: 4) York Region Waste Management Centre 5) Earl Turcott Waste Management Centre
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.	2017 ECA annual report identifies that Durham and York Regions are the only waste sources. This was also confirmed with on site personnel.
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.	SOP-REF-007 Unacceptable Waste Receiving, Handling, Storage and Disposal
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.	SOP-REF-007 Unacceptable Waste Receiving, Handling, Storage and Disposal. Observe during the site visit
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.	From the 2017 ECA Annual Report, total of 139,756 tonnes of waste was received.
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.	Owners to MOECC. Waste first received February 9, 2015. no change in 2017
110	Construction and Operation Contracts EA 24(1) In carrying out the undertaking, the proponent shall require that its contractors, subcontractors and employees: 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; b) meet applicable regulatory standards, regarding the construction and operation of the undertaking; c) obtain any necessary approvals, permits or licenses; and, d) have the appropriate training to perform the requirements of their position.	Project Agreement between Durham Region, Region of York and Covanta: Article 10: Environmental Compliance Article 31: Management of the Facility Article 42: Operational Performance Requirements
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 2017