Inquiries						
#	**Date Received**	**Method Received**	**Comment Details/Description:**	**Response/ Remedial Action**	**Response Date**	**Staff**
1	Thurs 30/03/2017	Project team web mail	I am a 3rd year environmental studies student at Trent university. I am writing a research paper on the Durham York Energy Center and was hoping to ask a few basic questions about the facility and operations. 1. How often are air quality tests completed at the DYEC? 2. What precautions are taken to ensure that a high level of air pollutants are not released into the atmosphere? 3. What happens to the facility if the number of air pollutants exceed the maximum quota. 4. On average, how much electricity is produced on a average day at the DYEC? 5. Where does the energy that is produced at the DYEC go? 6. What advancement's are used at the DYEC to ensure maximum efficiency? Thank you for reviewing these questions. If possible can you please answer the question to the best of your ability and leave a name and title for reference. Thank you for your time and hope to hear back from you! Regards, Liam Wynne.	Thank you for your interest in the Durham York Energy Centre. Please be advised that your inquiry has been received and is currently being addressed by the Project Team. Once prepared, we will provide you with a detailed response to your inquiry. Regards, Project Team Good Morning, Please see below in response to your email dated March 30, 2017 – Research work regarding the DYEC. 1. **How often are air quality tests completed at the DYEC?** **Facility** Emissions from the Durham York Energy Centre (DYEC) are recorded continuously by the continuous emissions monitoring system (CEMS). Continuous emissions monitoring began with the commencement of boiler operations. In addition to continuous monitoring conducted by the CEMS, air emissions from the facility are tested twice per year by a stack test (source test) carried out by a qualified independent consultant. These stack tests consist of an annual compliance test mandated by the DYEC Environmental Compliance Approval (ECA), as well as an additional annual voluntary test. The additional voluntary test will be conducted for a duration of at least the first three years of operation, as directed by Durham's Regional	Fri 30/03/2017 Thurs 06/04/2017	DL

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				Council. Real time readings and annual stack test results are available on our website: durhamyorkwaste.ca. **Ambient Air** Ambient air monitoring commenced in May 2013 and is conducted on a continuous basis. Three ambient air monitoring stations were sited in consultation with the Ministry of Environment and Climate Change (MOECC) to monitor ambient air near the vicinity of the DYEC. An upwind (background) ambient air monitoring station is located on the Courtice Water Pollution Control Plant property, a downwind ambient air monitoring station is located at Baseline and Rundle Road, and a third monitoring station is located on the northeast corner of the DYEC property. In addition, a fourth ambient air monitoring station was installed as per Durham Regional Council direction south-east of the site located on Crago Road. For additional information on the ambient air program, a copy of the Ambient Air Monitoring and Reporting Plan is available on our website: durhamyorkwaste.ca. 2. **What precautions are taken to ensure that a high level of air pollutants are not released into the atmosphere?** The DYEC incorporates technologies available for emission controls and complies with stringent environmental and regulatory limits. Each combustion train is an independent process train consisting of the following air pollution control		

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				equipment: - A Selective Non Catalytic Reduction System (SNCR System) with ammonia injection for NOx control - Very Low NOx (VLN™) Covanta trademark innovation for increased NOx control - An active carbon injection system, to reduce mercury and dioxins in flue gas - A dry recirculation lime injection scrubber to control acid gases - A pulse jet type baghouse to control particulate emissions - Minimum combustion zone temp of 1000 C for dioxins and furans control Operationally, the temperature in the combustion zone of each Boiler is required to reach a minimum of 1000 degrees Celsius prior to the introduction of waste into the combustion chamber of the boiler during start-up. This is maintained during the entire thermal treatment cycle and subsequent shutdown. This is to ensure the complete combustion of the municipal solid waste and destruction of volatile organic compounds. In addition, the facility is equipped with a long-term sampling system for dioxins and furans - AMESA. The system draws a continuous flue gas sample through a filter cartridge, which is periodically (monthly cycle) analyzed in a laboratory for dioxins and furans. This system provides a secondary indicator of performance between stack tests. The Regions are required to monitor the ambient air, soil, groundwater, and surface water quality in the area		

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				surrounding the facility. Air emissions are monitored via CEM Systems as well as through annual stack testing. Additional monitoring is performed on/off site for ambient air and odour as part of the ECA. Real time readings are available on our website: durhamyorkwaste.ca. 3. **What happens to the facility if the number of air pollutants exceed the maximum quota.** Visual and audible alarms systems are in place to alert the facility/equipment operators of any potential deviation from the facility's performance requirements for parameters that are continually monitored by the CEM systems. This gives the operators time to take all reasonable actions to ensure the equipment/facility maintains compliance. In the event that the CEM systems indicate that emissions from the boilers and stack exceed any of the performance requirements for a continuous three hour period, the Owner is required to cut-off all waste feed into the affected boiler and initiate a controlled shutdown, while maintaining a temperature of 1000 degrees Celsius, as practicable, in the combustion zone of the boiler. The facility operator will assess and address any issues and take corrective action prior to restarting the system. All such incidents are reported immediately to the MOECC as well as being posted on the Region's website. 4. **On average, how much electricity is produced on an average day at the DYEC?** The DYEC generates approximately 17 MW gross (14 MW net) electrical energy on a continuous basis. This is enough to power the DYEC and approximately 10,000		

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				homes per year. 5. **Where does the energy that is produced at the DYEC go?** The net electricity is sold to the Provincial grid as base load energy at the guaranteed price of $0.08 per kWh inflation indexed for a 20-year term. The difference between Gross and Net generation is the electricity used on site to operate the facility (self-power or load). 6. **What advancements are used at the DYEC to ensure maximum efficiency?** Covanta, in technical partnership with Martin GmbH of Germany, has developed a combustion system to reduce NOx emissions from the EFW process. Further air pollution control is achieved with an evaporative cooling tower, dry recirculation lime reactor, an activated carbon injection system and a fabric filter bag house. The fly ash treatment system using a pozzolan and cement encapsulation process to render fly ash a non-hazardous material. This system reduces the environmental impact of the facility and also saves cost by allowing the fly ash to be managed at a non-hazardous landfill. The facility's environmental footprint is further reduced by reusing all process water internally. No process wastewater is discharged from the facility. Regards		
2	Tues 04/04/2017	Project team web mail	Gentlepeople I have a client that disassembles mattresses and is looking for opportunities to	Thank you for your email regarding the Durham York Energy Centre.	Thurs 06/04/2017	DL

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			dispose of their scrap wood from mattresses and boxsprings. I would view this material to be "uncontaminated" since they do not accepted fouled materials from entering the facility as part of their QA/QC program. I had also heard that your facility was interested in this type of fuel. Can you provide any additional information on this subject matter? Thanksing you in advance for your assistance in this matter. Regards	The Durham York Energy Centre is Durham Region's primary long-term disposal option for waste and only processes the household waste remaining after Durham and York Regions' aggressive composting, recycling and reuse programs. Unfortunately, we cannot help with the disposal of your scrap wood as our Certificate of Approval does not allow us to accept waste from any additional outside sources. You may consider contacting Emerald Energy From Waste (http://www.emeraldefw.com/overview.php) to request additional information regarding their services. Regards, Project Team		
3	Tues 18/04/2017		Good Afternoon: Page 4 of the Feb. 23.17 WMAC minutes indicates that the Air Zone Review of the Oct/Nov. 2016 source test would be available by the end of February. https://www.durhamyorkwaste.ca/Assets/PublicOutreach/EFWWMAC/Meetings/Meeting_24/WMAC_Meeting24_Agenda.pdf This page does not show that the most recent Air Zone review of the Oct/Nov. 2016 source test has been posted. I did not receive any notification indicating it has been released or posted. Please advise if posted elsewhere. https://www.durhamyorkwaste.ca/Documents/MonitoringPlansReports/AirEmissionsMonitoringPlan.aspx When will the 2017 Owners' source test, due end April/early May take place? As well, has Durham's investigator's review/report of the December 11, 2016 fire been completed and when will that be released. Thank you.	**RE: Follow-up from questions received on Tuesday April 18, 2016** Good Morning, Please find below responses to the questions posed to DYEC project team staff on Tuesday April 18, 2016. **Q1: Please advise if the AirZone Review of the Oct/Nov. 2016 source test is posted on the project website.** The AirZone evaluation of the final Source test report (modeling) has not yet been finalized. **Q2: When will the 2017 Owners' source test, due end April/early May take place?** The 2017 Council directed source test is scheduled to be completed the week of May 22, 2017.	Fri 21/04/2017	DL

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				Q3: Has Durham's investigator's review/report of the December 11, 2016 fire been completed and when will that be released? Review of the proposed redesign is on-going. A full report on the findings and repairs will be made public once an approved design is accepted by the Owner's. Regards, Project Team		

Total Project Team Inquiries this month (project web email/telephone):	**3**
Total Covanta Inquiries this month:	**0**
Total Council/ Committee Inquiries this month:	**0**
Total Durham Call Centre Inquiries this month (separate attachment):	**0**
Total Inquiries from York this month:	**0**
Total Inquiries from previous months:	**11**
Total Inquiries in 2017:	**14**

Complaints						
#	Date Received	Method Received	Comment Details/Description:	Response/ Remedial Action	Response Date	Staff

Total Project Team Complaints this month (project web email/telephone):	**0**
Total Covanta Complaints this month:	**0**
Total Council/ Committee Complaints this month:	**0**
Total Durham Call Centre Complaints this month (separate attachment):	**0**
Total Complaints from York this month:	**0**
Total Complaints from previous months:	**1**
Total Complaints in 2017:	**1**