



# 2017 ODOUR MANAGEMENT & MITIGATION MONITORING REPORT

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# 1. Executive Summary

The Durham York Energy Centre (DYEC), respectfully submits the 2017 Annual Odour Management and Mitigation Monitoring Report (OMMMR) covering operations encompassing November 1<sup>st</sup>, 2016 to October 31<sup>st</sup>, 2017.

Under the Environmental Assessment Act – Notice to Proceed with Undertaking EA File No. 04-EA-02-08 (Section 18), as well as the multi-media Environmental Compliance Approval (ECA) number 7306-8FDKNX (Condition 8. (8)) issued by the Ontario Ministry of the Environment and Climate Change (MOECC), an Odour Management and Mitigation Plan (OMMP) was required prior to construction of the DYEC or by such other date as agreed to in writing by the Director. The OMMP became effective upon initial receipt of non-hazardous municipal solid waste on February 9<sup>th</sup>, 2015.

In addition, the preparation and approval of a Containment Test Protocol was required pursuant to ECA Condition 8. (7) prior to the receipt of waste at the DYEC. The Containment Test Protocol recognized that "as it is not practicable to measure air velocity or pressure with the Tipping Hall, a smoke test was determined to provide visualization of the flow of combustion air, odours and dust and hence demonstrate the design of the DYEC to manage and mitigate odours from waste stored before combustion." The Containment Test Protocol was approved by the MOECC on September 20<sup>th</sup>, 2014 and the DYEC was directed to conduct periodic inspections identified in the Containment Test Protocol which thus fulfills ECA Condition 8. (1)(b)(i) to undertake a test to measure the worst case scenario negative air pressure atmosphere throughout the Tipping Hall.

The OMMP requires the preparation and submission of an OMMMR to the York Durham Regional MOECC Director every 12 months until such time that the Director notifies DYEC that the OMMMR is not required. The initial OMMMR was submitted on November 26<sup>th</sup>, 2015 and included the results of odour testing and modelling of potential impacts to sensitive receptors. The second submission was on December 23<sup>rd</sup>, 2016. This OMMMR represents the third submittal. The scope of this OMMMR follows the activities enumerated by the OMMP and the Containment Test Protocol applicable to the control of odours:

- Normal Operations Odour Control.
- J Inspection and Maintenance.
- ) Monitoring, Recording and Reporting.
- Shutdown or Disruption of Operations.
- Odour Complaint Response Procedure.

For the period November 1<sup>st</sup>, 2016 to October 31<sup>st</sup>, 2017, the OMMP and Containment Test Protocol were effective in controlling odour release from the DYEC.

# 2. Normal Operations Odour Control

The application of good working practices and process control is of fundamental importance in eliminating and minimising the quantities of odours formed on site and their subsequent release to the atmosphere. Containment and mitigation of odour at the source through standard operating procedures (SOP's) is proven and effective. The overall aim in the operation of the DYEC is to apply Best Management Practices at all stages of the waste treatment processes undertaken on site. Waste brought for processing may include odourous materials. Potential odour emission sources may include truck transportation, handling

and storage of waste during normal operations and thermal treatment of waste on site. The following sections will explain mitigation procedures for potential DYEC odour sources during normal operations.

# 2.1 Truck Transportation

The Regions of Durham and York have advanced waste management programs for source separation and diversion of waste from landfills. Specifically, the diversion of household organic waste reduces the amount of potential odour generating waste from reaching the DYEC.

All vehicles hauling municipal solid waste to the DYEC have been approved by the Ministry of the Environment and Climate Change (MOECC). All waste under these waste management system approvals must be transported in a covered vehicle.

Hauler	MOECC ECA		
Challenger Motor Freight Inc.	A841577		
U-Pak Disposals Limited	A8597		
ECL Carriers GP Inc.	A800583		
J.E. Culp Transport	A820843		

Table 1: MSW (Municipal Solid Waste) Hauler Waste Management System ECA's

The Scale House Operator performs a cursory inspection of hauler vehicles both upon arrival and departure, specifically ensuring covers and tarps are present and there are no obvious leaks or dripping waste. There were no hauler vehicles cited for absent covers, leaks or drips nor were there any incidents of queueing of MSW trucks outside the facility on municipal roadways during the reporting period.

Site personnel monitor the grounds and roadways for litter on a daily basis. Any waste that has fallen from the trucks is either picked up during the daily operator rounds, weekly sweeper truck rounds or monthly site wide clean-up. This work is documented in operator check sheets that are archived at the DYEC.

# 2.2 Handling and Storage of Waste during Normal Operations

The Tipping Hall entrance and exit are equipped with high speed doors to control potential fugitive emissions (odour or dust) during the truck unloading process. Doors remain closed at all times except to facilitate the entry, positioning and exiting of waste delivery trucks i.e. both entrance and exit doors must be closed before offloading of MSW or loading of unacceptable waste may commence. All trucks remain covered until they enter the Tipping Hall, reducing the potential for the release of odour emissions. On an hourly basis, an MSW truck is directed to unload on the Tip Floor. Trained operating personnel perform a visual inspection and sorting of this waste, which includes recording the presence of any extreme odours coming from the incoming municipal solid waste vehicles. These results are recorded

on the DYEC Waste Screening Report and are archived at the DYEC. See Appendix 1 for a copy of the DYEC Waste Screening Report.

The outdoor storage of waste, whether in or out of transport vehicles, is not permitted.

The entrance and exit doors into the Residue and the Grizzly Buildings are kept closed at all times except to permit the entry or exit of waste transport vehicles and waste handling equipment into and out of these buildings. The air from the Tipping, Residue and Grizzly Buildings and from the Equipment is exhausted through appropriate and fully functional air pollution control (APC) equipment.

#### 2.3 Thermal Treatment of Waste

Under normal operating conditions one or two combustion trains are on line. Combustion air is drawn through the Tipping Hall by the thermal treatment units' combustion air fans through large air inlet ducts above the pit. The process of inducing combustion air flow through the Tipping Hall and refuse pit area prevents fugitive dust and odours from escaping into the environment. Potential malodorous air is drawn into the furnace and destroyed via direct exposure to the flame and high temperature oxidation that occurs during the combustion process. A system of manually adjustable louvers controls the amount of make-up air that is admitted to the Tipping Hall from the outside environment. These louvers are adjusted as necessary to ensure odours remain contained within the Tipping Hall and pit area.

#### 2.4 Preventative and Control Measures at the Facility

The DYEC employs numerous preventative and control measures at the Facility for odour abatement as listed in Table 2 below.

Emission Source	Potential Source of Odour	Control Measures / Preventative Procedure		
Trucks	<ul> <li>the queue time of trucks onsite</li> <li>Waste falling off trucks</li> </ul>	<ul> <li>Minimize the queue time through effective delivery protocols</li> <li>If necessary, communication with Transfer Stations to divert trucks to designated locations.</li> <li>Regional and Facility staff monitor trucks visually and record drivers that do not follow protocol. Drivers are assessed penalties for coming on to the site with uncovered vehicles.</li> <li>Fallen waste is recovered and moved to the Tipping Hall.</li> </ul>		
Waste Storage	Outside storage	Waste is not stored outside anywhere on the Facility		

#### Table 2 Description of Odour Preventative and Control Measures at the DYEC

Emission Source	Potential Source of Odour	Control Measures / Preventative Procedure		
	Unacceptable waste	<ul> <li>Unacceptable waste is stored in a secured location on the Tipping Hall floor</li> <li>Unacceptable waste or waste under examination will be diverted to the Tipping Hall.</li> </ul>		
Tipping Hall / Refuse Building	Fugitive odours	<ul> <li>Tipping Hall entrance and exit doors are closed when waste is not being delivered.</li> <li>Combustion Air Fans continuously draw combustion air from the Tipping Hall and the furnaces where the thermal treatment process will destroy any odour.</li> <li>An alarm alerts the control room when combustion air flow into the thermal treatment units drops below low level requiring Tipping Hall air inlet investigation and possible adjustment.</li> <li>Calibration of Boiler Combustion Air Flow Transmitter for Louver Positioning</li> </ul>		
Both thermal treatment trains have an unexpected outage lasting a prolonged period	Both the Facility thermal treatment units are off-line for an extended period	<ul> <li>Facility staff communicate with Regional Transfer Stations to divert trucks from the Facility</li> <li>Trucks on-site will be diverted to appropriate locations</li> <li>Entrance and exit doors to the Tipping Hall and louvers will be closed to prevent fugitive odour escape.</li> <li>ID Fans will continue to operate as feasible and convey air from the Tipping Hall to the stack.</li> <li>In the unusual case scenario of both units being off line for an extended period, waste in the pit may be recovered and transferred in a covered haul truck to appropriate disposal areas.</li> <li>Active odour suppression using the facility's micronutrient misting system (See 5.1 for a description)</li> </ul>		

# 3. Inspection and Maintenance

Planned maintenance and inspection activities are an important part of maintaining the effectiveness of odour control measures. The DYEC operations and maintenance staff ensure that all plant processes and equipment perform properly, including those that have a direct effect on the success of the odour control program. A maintenance schedule of all facility equipment is included as part of the Facility Operations and Maintenance Manual. An electronic Maintenance Management System is utilized to co-ordinate and document inspection and repair activities and ensure the availability of critical spare parts. This ensures the DYEC maintains an effective planned inspection and preventative maintenance program on equipment that is critical to odour control and abatement.

# 3.1 Maintaining Combustion Air Flow

While the thermal treatment units are in operation, combustion air flow is maintained through the Tipping Hall and pit area. A system of louvers is adjusted according to prevailing operating conditions, such as the number of units in operation and also whether or not MSW is being delivered. Louver positions for various unit operating scenarios were developed during the 2014 containment (smoke) test. To ensure this works effectively, regular maintenance and inspection activities are performed to ensure that doors and roof vents are closed and that the building envelope remains in good condition. The doors and louvers are inspected for proper operation on a daily basis. These activities ensure that louver adjustments effectively contain odours within the Tipping Hall and pit.

#### 3.2 Inspection Frequency and Checklists

The DYEC has developed a comprehensive program that includes inspections of all aspects of the facility operations including buildings and the indoor waste storage facilities for the presence of odour and leaks in or near any openings, such as doorways, windows, vents or louvers and any off-site nuisance impacts from odour.

The Equipment Operator performs daily rounds of the Tipping Hall area. Items of concern include confirmation that the louvers are in the correct position, integrity of the entrance/exit doors, presence of dust, odours and leaks exiting/entering the Tipping Hall and for the presence of trash outside of the building. They are also responsible for ensuring the misting system is operable when required.

The Environmental Specialist performs an inspection of the entire facility on a weekly basis and records findings on the DYEC Weekly Environmental Site Inspection Form. In addition to odour, litter and track out of MSW are also recorded.

The Outside Environmental Checklist was designed to comply with ECA 7306-8FDKNX Condition 5 Equipment and Site Inspections and Maintenance, (5) Inspections, and includes 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 and off-site nuisance impacts such as odour, dust and litter.

The waste water settling basin (WWSB) is inspected on a daily basis for odour, dust and litter. The results of these inspections are recorded on the Outside Environmental Checklist, including any actions taken. On a weekly basis, the Facility's Environmental Specialist performs an independent check. If necessary, the WWSB can be emptied and cleaned. It has not been the source of any odours during this reporting period. During the reporting year, the WWSB was cleaned out and inspected on July 13<sup>th,</sup> 2017 and October 19<sup>th</sup>, 2017.

The DYEC Waste Screening Report is also completed by the Equipment Operator. Every truck is examined for extreme odour.

Table 3 provides a summary of these facility inspections. See Appendix 1 for copies of the inspection forms.

Inspection Type	Frequency	Form		
Tip Floor Entrance and Exit Doors	Daily	Equipment Operator Daily Rounds		
	Weekly	DYEC Weekly Environmental Site Inspection Form		
Louver Positions	Daily	Equipment Operator Daily Rounds		
	Weekly	DYEC Weekly Environmental Site Inspection Form		
Combustion Air Flow to the Thermal Treatment Units	Continuously recorded on the Facility's Distributed Control System	Distributed Control System data historian		
Environmental Inspection (as per ECA 5 (5))	Daily	Outside Environmental Checklist		
	Weekly	DYEC Weekly Environmental Site Inspection Form		
Haul Truck Odour Inspection	Daily – every truck	DYEC Waste Screening Report		
Odour Walk	As needed i.e. outages and/or odour concerns	Odour Log		
Waste Water Settling Basin	Daily	Outside Environmental Checklist		
	Weekly	DYEC Weekly Environmental Site Inspection Form		

Table 3: Summary of Inspections, Frequency and Forms

In addition, the Facility has routine equipment maintenance inspections for the operation of the Facility as part of the Facility Operating and Maintenance Manual.

The following activities are performed throughout the day or on a scheduled basis to control potential sources of fugitive odour emissions:

- ) The Tipping Floor is cleaned as needed between MSW truck deliveries and at the end of the day
- ) No waste handling equipment or empty storage containers are stored outside, unless they have been washed
- J Equipment and storage areas that are used to handle, process and store waste (including the surfaces of the outdoor spill containment areas) are cleaned as required

# 3.3 OMMP Plan Review and Continuous Improvement

Inspection and monitoring procedures assist Facility personnel in maintaining an effective OMMP. The OMMP will be reviewed and updated, as follows:

- ) if there are significant changes in the odour emissions sources or in Facility operations;
- ) periodically, every five years (minimum); and/or
- ) if there are verified complaints associated with odour emissions from the Facility.

A review of the OMMP is intended to evaluate the effectiveness of the odour control practices and focus on the identification of improvement opportunities that can reduce the possibility of the release of fugitive odour emissions. Significant changes in the odour emission sources from Facility operations have not occurred.

#### 3.4 Training

All new DYEC employees receive standard Environmental Training. This includes a presentation on the Odour Management and Mitigation Plan. Facility staff are trained to identify odour concerns. This training includes:

- management control techniques in place for addressing odour including review of how to conduct and report an odour observation check;
- ) actions to take in the event of an unexpected odour release; and
- $\rightarrow$  notification protocols.

The Facility's Environmental Specialist conducts refresher training on an as necessary basis. Training records are archived at the Facility.

# 4. Monitoring, Recording and Reporting

During normal operating hours, all staff are responsible to report any abnormal odour emissions at the site. If an abnormal odour is detected, Facility staff will implement reactive measures to determine the root cause of the odour. SOP – DYEC-PEO-003 External Communications – Public Complaints has been developed to record complaints and ensure adequate information is collected to determine the cause and identify/implement mitigative actions. The SOP covers the following:

/ records to be kept, including documentation of maintenance and process conditions;

- meteorological conditions to be recorded; and
- ) form completion, follow through and notification to the MOECC.

The DYEC monitors combustion air flow rates, adjusts Tipping Hall louvers as necessary and maintains equipment to meet the odour control requirements of the ECA. The following monitoring is carried out to evaluate the performance of control and reaction measures in use at the DYEC.

- a) Continuous monitoring of combustion airflow by each unit.
- b) Monthly review of meteorological data provided by the Region of Durham.
- c) Monitoring of complaints and other forms of community feedback.

On a monthly basis all complaints received directly at the DYEC are recorded and delivered to the Region of Durham for inclusion in the monthly complaint logs sent to the MOECC.

# 4.1 Monitoring of Combustion Airflow

The continuous monitoring of the combustion airflow rate through the Tipping Hall is a surrogate for determining whether negative pressure is being maintained within the building. Temperatures, pressures and flow rates are monitored throughout the combustion air and flue gas path. Combustion airflows (Combustion Air Flow Transmitters (1/2-FIT-4202)) in each of the two thermal treatment units are monitored continuously to ensure proper airflow (negative pressure) through the Tipping Hall is maintained. Periodic inspection and annual verification of the combustion air flow transmitters is conducted in accordance with the Containment Test Protocol.

The Facility induces airflow through the Tipping Hall and across the pit by combustion air fans that pull the combustion air through the intake ducts located above the cranes on the charging deck at Elevation 18. The DCS continuously monitors, measures and records this flowrate. As operating conditions change (i.e. shutdowns, non-delivery times), the airflow is adjusted with the use of louvers on the north wall of the Tipping Hall to maintain sufficient airflow and to prevent the odours from leaving the building. An alarm indicator in the DCS will alert the Control Room Operator of low combustion air flows requiring possible louver repositioning.

In the event that adequate airflow cannot be maintained, additional odour containment and control measures will be implemented.

#### 4.2 Complaints Monitoring

Condition 6 of the Environmental Assessment (EA) and Condition 10 of the ECA both require that the DYEC monitors and responds to odour complaints and inquiries. These complaints may come through the Regions of Durham and York (telephone or email), through the MOECC or directly to the Facility. DYEC staff are in place to record and respond to these complaints twenty-four (24) hours per day, seven (7) days per week. Written and digital records of complaints, follow-up investigations and responses are maintained on site. See Section 6, Odour Complaint and Response Procedure, for additional details.

# 4.3 Source Odour Sampling

The Tipping Hall has been identified as the principal source of potential fugitive odours. On October 8<sup>th</sup> and 9<sup>th</sup>, 2015, Zorix Environmental carried out representative one-time odour sampling as per Ontario Source Testing Code Method ON-6. Triplicate samples were collected from the Tipping Hall feed chute area. These air samples were then analyzed by an 8-member odour panel to determine the typical odour source concentration. Dispersion of worst case potential odours through the stack during a complete outage was modeled using the CALPUFF dispersion model approved under Schedule B of the ECA. According to the model, the maximum 10-minute odour concentration at a sensitive receptor was 0.28 OU (odour units) and occurred at a former house to the west of the facility. This result was well within the compliance limit of 1.0 Odour Units.

# 5. Shutdown or Disruption of Operations

# 5.1 Scheduled Shutdowns

Scheduled shutdowns are used to complete unit inspection and repairs and are a key component of the Facilities' maintenance program.

During a single unit outage, the remaining unit continues to run and provides for Tipping Floor and pit area ventilation, maintaining odour control. In addition to this, SOP – D ENV 003 Fugitive Dust and odour Control, for monitoring and mitigation of odours is employed. This includes for the completion of perimeter odour surveys and may include the use of active odour suppression within the Tipping Hall.

When in a full plant outage (both units offline), Tip Floor and pit area ventilation is reduced. During this period of time, perimeter odour surveys are completed, louver positions are monitored, and the active odour suppression system may be employed. Table 4 summarizes the planned facility outages.

Unit 1	Unit 2			
February 6 <sup>th</sup> – March 21 <sup>st</sup>	January 28 <sup>th</sup> – March 16 <sup>th</sup>			
August 13 <sup>th</sup> – August 20 <sup>th</sup>	August 20 <sup>th</sup> – August 28 <sup>th</sup>			

Table 4: 2017 Planned Facility Out
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The Facility's active odour suppression system consists of an Aqua Fog<sup>®</sup> Odour Control unit. This misting unit uses a diluted solution of a plant based organic micronutrient (SciCorp BIOLOGIC<sup>®</sup> SRC3) which neutralizes odour by stimulating both aerobic and anaerobic non-odour producing bacteria while competitively inhibiting sulphur-reducing and ammonia forming bacteria and enzymes. This mobile misting fan can be placed in varying positions either misting over the MSW in the pit or misting toward the entrance door. The unit, in combination with control (opening and closing) of the louvers on the north wall of the Tipping Hall work effectively to prevent fugitive odour emissions when one or both units were not operating. Aqua Fog<sup>®</sup> usage dates are documented in Table 5.

#### Table 5: 2017 Aqua Fog® Usage Dates

Dates	Reason				
January 30 <sup>th</sup> – January 31 <sup>st</sup>	#1 Unit Outage				
February 13 <sup>th</sup> – February 21 <sup>st</sup>	#1 and #2 Unit Outage				
March 16 <sup>th</sup> – March 18 <sup>th</sup>	#1 and #2 Unit Outage				
July 4 <sup>th</sup>	Internal odour concern (post long weekend)				
August 29 <sup>th</sup>	Internal odour concern (burnt leachate smell)				
September 5 <sup>th</sup>	Internal odour concern (post long weekend)				

# 5.2 Disruption / Unscheduled Shutdowns

A disruption of normal facility operations leading to an unplanned outage is handled in the same way as a planned outage. Louver positions are adjusted to maintain Tipping Hall ventilation. In the event that both units are affected and adequate negative airflow cannot be maintained, additional odour containment and control measures will be implemented, including the operation of the active odour suppression system.

# 5.3 Extended Waste Storage

In the event the Facility experiences an abnormal / upset condition that causes the Facility to enter an extended emergency waste storage condition, the Facility will formally notify the MOECC per Condition 2 (8)(b)(i) of the ECA, as amended on March 14<sup>th</sup>, 2016. This notification will include an explanation of the issue, duration of the outage and control measures the Facility is implementing to potential odours. These mitigating actions may include reducing waste deliveries, implementing more frequent odour surveys and the operation of the active odour suppression system. MOECC notifications of extended waste storage are archived at the site.

There have been no verified odour complaints due to planned or unplanned shutdowns.

# 6. Odour Complaint Response Procedure

Monitoring of Complaints and Inquiries at the DYEC is a requirement of Condition 6 of the EA and Condition 10 of the ECA.

DYEC has a comprehensive system of monitoring and inspection to ensure that all odour control measures are functioning effectively. However, in the event that an odour complaint is received, it is important that complaints are properly and systematically addressed and resolved.

Complaints are directed to the DYEC though the Regions of Durham or York or received directly at the Facility. The SOP DYEC-PEO-003 External Communications – Public Complaints is based upon the *Durham/York Energy from Waste Complaint Protocol for Design, Construction & Operations* and is followed when an odour complaint is received. *See Appendix 2: DYEC Record of Complaint* for information collected during an investigation.

A register of all odour complaints regarding the site is maintained. A Complaint and Inquiry report submission is provided to the MOECC York Durham District Office District Manager on a monthly basis in accordance with the Complaint Protocol approved by the MOECC in 2011. Hard copies and digital records of complaints and the complaint investigation and responses are maintained on site. All Complaint and Inquiry logs are available to the public on the DYEC website: www.durhamyorkwaste.ca

All odour complaints made to the Facility were reported to the MOECC District Office by phone or email as soon as reasonably possible. An investigation into each complaint was immediately initiated. Between November 2016 and October 2017, there was one (1) complaint related to suspected odour emissions from the DYEC. There was also one (1) complaint recorded in July 2016 that was not reported in last year's report. Odour complaints were received on the following dates:

July 26<sup>th</sup>, 2016
 November 16<sup>th</sup>, 2016

Upon investigation, it was determined that the complaints listed above were not attributable to the DYEC. A summary of the odour complaints and follow up investigations received between November 1<sup>st</sup>, 2016 and October 31<sup>st</sup>, 2017 is provided in Appendix 3.

# NOTE:

Under the Odour Management and Mitigation Plan, the Regions committed to notifying the Municipality of Clarington of any odour complaints received. The Municipality advised the Regions on June 16<sup>th</sup>, 2015 that further notifications regarding odour complaints were not required.

# 7. Summary

For the period of November 1<sup>st</sup>, 2016 to October 31<sup>st</sup>, 2017, the OMMP and the Containment Test Protocol were effective in controlling odour release from the DYEC. The application of good working practices and process control has minimised the quantity of odours formed on site and their subsequent release into the atmosphere. Containment and mitigation of odours at the source through standard operating procedures has proven effective.

# Appendix 1: Inspection Forms



#### EQUIPMENT OPERATOR DAILY ROUNDS

Completed By:

#### Date:

51		Boilers On	Incoming Waste	# of Louvers Open All closed One bank Two banks	Check 2					
At	7am, confirm only one	1 or 2	Yes							
of	the following:	1	No							
100.00		2	No							
3 <b>1</b>	4	0	Yes	All closed	10.					
		0	No	One bank						
- 20	1/2	0 (no ID fan)	No	All closed	-					
N	o Item									
	Inspect the Loader using	g the approved inspec	ction form							
	Portable Fire Extinguish	ers: present and prop	perly charged and fir	e hose in good conditi	on					
	Drain all fire system drip	o legs								
	Floor area is clear of ma	terials from previous	shift							
	Review building integrit	Review building integrity including columns, beams, walls etc.								
- <u>-</u>	Inspect, open and close	Inspect, open and close entry/exit doors								
	Confirm all lights are fu	Confirm all lights are functioning. If lights are out, record in comments below.								
	Dust/odours/water leak	Dust/odours/water leaks exiting/entering the Tipping Floor. If found, record below.								
2	Unacceptable Wastes a	Unacceptable Wastes are stored in proper containment locations and are not stored incompatible								
8	Confirm Spill Kit is full									
2	Recycling placed in gree	Recycling placed in green recycling bin								
- X	Trash present outside e	Trash present outside east or west Tip Floor doors. If yes, pick up.								
1	Is the misting system for odour control in operation?									
	If misting, verify nutrient is present and reservoir does not need refilling during entire shift									
	Charging Deck floor swe	Charging Deck floor swept/cleaned. Record time -								
	Yellow parapet cleaned	Yellow parapet cleaned – free of dust Record time -								
	Stairwells swept/cleane	Stairwells swept/cleaned Record time -								
	Firing Aisle (in front of f	Firing Aisle (in front of Martin – El 8.7) cleaned Record time -								
	Barn Door Areas (behin	Barn Door Areas (behind Martin – El 6) cleaned Record time -								
		Boilers On	Incoming Waste	# of Louvers Open	Check &					
1	1	1 or 2	Yes	All closed						
At	7pm, confirm only one	1	No	One bank						
of	the following:	2	No	Two banks						
		0	Yes	All closed	1					

Additional Tasks Completed and any Comments or Issues from above

Shift Supervisor Signature:

Rev.6 29-Jun-17

0

0 (no ID fan)

No

No

One bank

All closed



# COVANTA DYEC WEEKLY ENVIRONMENTAL SITE INSPECTION FORM

Date: \_\_\_\_\_

Completed By:	

	CONDITIONS						
				Sat	NI	UnSat	Comments
Odours are controlled							
Dust is controlled - Roadways are adequately swept							
Overall site litt	ter is controlled						
No evidence o	f excessive soil ero	osion					
Facility is main	ntained in a clean a	and sanitary	condition				
Areas adjacen	t to buildings are f	ree of stan	ding water				
Grass/landsca	ping is neatly trim	med and p	roperly maintained				
	Tanks					Comm	nents
	Leaks detecter	d (dust or				and a second	
	liquid	9					
Carbon	Yes No						
Lime	Yes No	<u> </u>					
Pozzolan	Yes No	<u> </u>					
Cement			8 10 MS				
Diesei Tank	Yes No	Н	Spill Kit -				
POULCO/TI		INC ARE	AC				
BUILER/TU	KBINE BUILD	ING ARE	AS		A.I.	Union	Common
				296	PHL	Unsat	Comments
Tanks and drug	drive backing with	2 <sup>°</sup> containe	ant or roll callets				10. Select 1 (2000) 11
Tanks and dru	ms provided with	2" containm	ient or spill pallets				70
Tanks and dru Floor drains/tr	ms provided with a enches are function	2" containm oning prope	nent or spill pallets rly				a
Tanks and dru Floor drains/tr Floor is clear o	ms provided with a enches are function f spilled material a	2" containm oning prope and/or oil	nent or spill pallets rly				
Tanks and dru Floor drains/tr Floor is clear o Spill kits are ac	ms provided with a enches are function f spilled material a dequately stocked	2° containm oning prope and/or oil (turbine an	ent or spill pallets rly d firing aisle)				
Tanks and dru Floor drains/tr Floor is clear o Spill kits are ac No evidence o	ms provided with a renches are function of spilled material a dequately stocked f leaks/spills or ma	2" containm oning prope and/or oil (turbine an alfunctionin	ient or spill pallets rly d firing aisle) g equipment				
Tanks and drui Floor drains/tr Floor is clear o Spill kits are ao No evidence o	ms provided with a enches are function f spilled material a lequately stocked f leaks/spills or ma	2° containm oning prope and/or oil (turbine an alfunctionin	ient or spill pallets rly d firing aisle) g equipment				
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Tanks and drui Floor drains/tr Floor is clear o Spill kits are ad No evidence o APC AREA Surfaces are cl Floor drains/tr Baghouse syst Ammonia tank Carbon/lime/a order CEMS PERI Daily Summary	ms provided with a enches are function of spilled material a dequately stocked of leaks/spills or ma ear of spilled material enches are function emis are function infining in proper v immonia injection FORMANCE y Reports reviewed	2" contains oning prope and/or oil (turbine an alfunctionin erial and/or oning properly working ord systems in d and any is	ent or spill pallets rly d firing aisle) g equipment oil rly ler proper working sues addressed	Sat:		UnSat UnSat UnSat UnSat UnSat	Comments
Tanks and drui Floor drains/tr Floor is clear o Spill kits are ad No evidence o APC AREA Surfaces are cl Floor drains/tr Baghouse syst Ammonia tank Carbon/lime/a order CEMS PERI Daily Summary CEMS data qua	ms provided with a enches are function of spilled material a dequately stocked of leaks/spills or ma ear of spilled material ear of spilled material enches are function ems are function in proper view mononia injection FORMANCE y Reports reviewed ality issues being a	2" contains oning prope and/or oil (turbine an alfunctionin erial and/or oning prope ng properly working ord systems in d and any is ddressed	ent or spill pallets rly d firing aisle) g equipment oil rly ler proper working sues addressed	Sat. Sat. Sat. Sat.		UnSat UnSat UnSat UnSat UnSat	Comments

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# DYEC WEEKLY ENVIRONMENTAL SITE INSPECTION FORM

WATER TREATMENT AREA	12 11	4	M 32	
	Sat	NI	UnSat	Comments
Floor is clear or spilled material and/or oil				
Spill kit is adequately stocked				
No evidence of excessive leaks or malfunctioning equipment				
storage tanks/containment basins properly maintained				
STORM WATER PONDS and SETTLING BASIN				
	Sat	NI	UnSat	Comments
Vo evidence of visible sheen on ponds				501 aug.074-1
No evidence of visible sheen on WWS8				
spill kits at East and West ponds are adequately stocked				
RESIDUE BUILDING AND HANDLING AREAS	distant.	donteen:	the and sub-	
	Sat	NI	UnSat	Comments
Ash, ferrous and non-ferrous material is properly contained				
pill kit is adequately stocked				
Floor is clear of spilled material and/or oil				
Vo sign of ash track-out or leaking transport vehicles				
Vo sign of ferrous/non-ferrous track out				
No sign of ash spillage beneath outside conveyors				
Condition of Pozzolan/Cement silo base		Π		
		Π		
GRIZZLY BUILDING & EMERGENCY DIESEL GENE	RATOR	(EDC	AREA	
	Sat	NI	UnSat	Comments
Floor is clear of spilled material and/or oil				
No sign of excessive ash spillage, NO ash track-out.			0	
foll kit is adequately stocked				
No sign of leaks/spills around EDG		Π	n	
			<u> </u>	
	Sat	NI	UnSat	Comments
pill kits are adequately stocked				
Diesel tanks: no leaks visible				
No sign of malfunctioning equipment evident	Π	n	ñ	
Water tank containment intact	Π	Π	n l	
			n	
MAINTENANCE SHOP				
MAINTENANCE SHOP	Sat	NI	UnSat	Comments
No drums or drums on spill pallets				a structure a
loor is clear of spilled material and/or oil			Π	
No staining evident on payed areas outside of shop				
as a sensing concern on parce areas outside of stop				
Maintenance activities conducted in a manner minimizing coll	-	-		

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#### DYEC WEEKLY ENVIRONMENTAL SITE INSPECTION FORM

#### Sat – Satisfactory NI – Needs Improvement UnSat - Unsatisfactory SCALES Sat NI UnSat Comments Spill kit is adequately stocked Scales and roadway are free from MSW/dust/litter **INTERNALLY GENERATED WASTE - COMPRESSOR ALLEY** Sat NI UnSat Comments No evidence of leaks/spills in the vicinity of the used oil storage drums Tanks and drums provided with secondary containment and/or spill pallets Spill kit is adequately stocked IGW is properly labelled TIPPING FLOOR Sat NI UnSat Comments Vectors are prevented or controlled Waste volume in pit and tipping floor not excessive Daily Waste Screening Reports completed Spill kit is adequately stocked Chemical/oil spills/debris present on floor Π Г Unacceptable waste stored safely No track out of MSW Louvers are functioning and in correct position

#### ADDITIONAL COMMENTS: -

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# COVANTA

#### **Outside Environmental Checklist**

Date:	Ĩ.	Operate	or Name:	ŝ.			
1. Outside Surrounding Area	East	South	West	North	(	omments	£
Fencing / Gates / Barriers intact	Y / N	Y / N	Y/N	Y / N			
Security Signage in place	Y/N	Y / N	Y/N	Y/N			
Roads/ Scale house - Leaks/drips of waste from trucks, litter, excessive dust present	Y / N	Y / N	Y/N	Y / N			
Storm Water Pooling present	Y/N	¥ / N	Y / N	Y/N			
Odour/ Dust/ Litter Present	Y / N	Y / N	Y / N	Y / N	[		
Make note of any odours coming from the Water Pollution Control Plant or Miller Waste	Y / N	Please re	cord time	odour was	noted:		
2. Ponds and Swales	East	West	Comme	nts			
Odour / Dust / Litter present	Y / N	¥ / N	4				
3. Residue Building	85	Comme	ents				
Track out of ash or metals	Y/N	i.					
Dust/odours exiting building	Y / N	i.					
4. Diesel Tank - Rolling Stock	5	Comme	ents				
Containment compromised – leaks visible	Y / N	Fuel Lev	vel -				
5. Waste Water Settling Basin		Comme	ents				
Odour / Dust / Litter present	Y / N	5.277.090					
Basin/Pumps compromised –leaks visible	Y / N						
6. Stack	0.5	Comme	ents				
Stack lighting is functional	Y/N	Please of	circle light	t that is no	t functioning: NE	SE SW	NW
7. Emergency Diesel Generator		Comme	ents				
Dust/odours exiting any equipment openings	Y / N	0					
Coolant/Battery/Fuel leaks	Y / N	Fuel Lev	vel -				
8. Grizzly Building	11 I	Comme	ents				
Track out of ash or metals	Y/N	1210-02.495	6493F				
Dust/odours exiting building	Y / N						
9. ACC/ CCW		Comme	ents				
Leaks visible - around ACC	Y/N	2					
Leaks visible – around CCW	Y / N						
ACC Transformer containment free of oil/debris/water	Y / N	N Wate	r Level:	5	Water Level:		
10. Flyash and Inclined Conveyors		Comme	ots				
Odour / Dust / Litter present	Y / N						
Ash leaks visible	Y/N						

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# COVANTA

#### **Outside Environmental Checklist**

11. Ammonia		Comments
Containment compromised (cracks/peeling present)	Y / N	Water Level in Dike -
Tank/valves/pipes compromised- leaks visible	Y / N	
12. Pozzolan/ Cement/ Carbon Silos		Comments
Silos condition compromised – leaks visible	Y / N	
Offloading areas in clean condition	Y / N	
Make note of any off-site nuisance im	pacts su	ch as odour, dust, litter etc.

Comments:

Shift Supervisor Signature:

NOTE: This inspection satisfies ECA 7306-8FDKNX Condition 5 (5) Inspections

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DYEC Waste Screening Report - Tipping Floor Date: \_

Once per hour, Trained Personnel shall unload the incoming Waste on the tipping floor for a manual visual inspection and sorting of the incoming Waste. (ECA - Condition 4 (2)(b)(ii) )

		Waste	e <mark>Hauler</mark>		Extr	Extreme Odour?		eptable ste?	Trucks dumped directly into Pit			Inspector Initials	
	Time	ham	ork AK)	ID #	Yes	No	Yes No		ID #				
		Dur	Yc UP		105	No	103		Please place a D	(Durham) or Y (Yor	k) in front of ID#		
7am													
8am										9 9			
9am													
10am													
11am													
12pm									10	5 7			
1pm													
2pm													
3pm													
4pm									10	2 2			
5pm													
6pm													

To report Unacceptable Waste please use the other side of this form.



# **DYEC Waste Screening Report** - Tipping Floor

			es	(IIe	ery	ts	SU	77 10	alt		sdi				Storage	Location
	Time of Inspection	Explosives	Liquid Wast	C & D (Drywa	Large Machin	White Good	Sealed Drun	Pressurized Containers	Tar or Aspha	Pathologics or Biologics	Logs or Stum	Tires	Other	Description of Materials	Floor Bin	Bermed Area
_			Please	record	volume/	quantit	y of ma	terials	remove	ed from	waste	stream				
7am																
8am																
9am																
10am																
11am																
12pm																
1pm																
2pm																
3pm																
4pm				2		o) (e	8				5.		3			
5pm	52 - 5 52 - 5					0 0 0 0					2					
6pm										8	8					

Comments:

Shift Supervisor Signature: \_\_\_\_\_

DYEC Waste Screening Report - Tipping Floor Rev 6: August 19, 2015

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# ODOUR LOG

Date	Time	Wind Direction	Odours Detected	Location of odours (i.e. east side of admin)	Extent of odours (i.e. How far away from plant can you smell it) Any comments	Yellow Drum Level of Micronutrient (inches)	Micro- nutrient Added (Y/N)	Initial
			3				(e e)	÷
	0		-					-
		-						
							<u> </u>	+
	_							
				_				
	-	-						0
	e e							6
								<u> </u>
	_	_						
		-					+	+

Rev 1: Jun-16

Appendix 2: DYEC Record of Complaint

A DOOL OF THE PROPERTY OF THE						
	Track	ing Number	r:		(admin use	e only)
SECTION A: THIS AREA	TO BE CON	PLETED BY F	IRST RES	SPONDER]		
Date of Complaint:			Т	Time:	🔤 🗆 am 🛙	⊐ pm
Complaint Received by	r:				-53	
Method of Contact:	□Tele □Oth	phone 🗆	Letter	□Email	□Facility Visi	t 🗆 Fax
Name of Complainant:	1		2.1	6		
Address:						
Phone:						
Email:						
			P P			
Description of respons	e immed	iately follov	wing th	ie compla	int:	
Description of respons	e immed	iately follov	wing th	ie compla	int:	
Description of respons <u>Referred for Further A</u> Facility Manager Other	e immed ction to: □ Busin	iately follov ess Manage	wing th	e compla Environn	int: nental Specialis	st
Description of respons Referred for Further Ar Gradity Manager Other Section B: This AREA	e immed	iately follov ess Manage IPLETED BY N	wing th	Environn	<u>int:</u> nental Specialis	st
Description of respons          Referred for Further Ar         Facility Manager         Other         Section B: This AREA         Complaint Processed b         Weather at Time of Co         Source:         Courtice WPCP Wea         Other:	e immed	iately follow ess Manage IPLETED BY N (if required)	wing the er and the er	Environn	int: nental Specialis	st
Description of respons          Referred for Further Ar         Facility Manager         Other         Section 8: This AREA         Complaint Processed b         Weather at Time of Co         Source:         Courtice WPCP Wea         Other:         Temperature:	e immed	iately follow ess Manage IPLETED BY N (if required) ion Precipitati	wing the	Environn	int: nental Specialis	st
Description of respons          Referred for Further Ar         Facility Manager         Other         Section B: This AREA         Complaint Processed b         Weather at Time of Co         Source:         Courtice WPCP Wea         Other:         Temperature:         Wind Speed:	e immed	iately follow ess Manage IPLETED BY N (if required) ion Precipitati Wind Dire	AANAGE	Environn	int: nental Specialis	st (rain/snow and volum (direction wind is coming from
Description of respons          Referred for Further Ar         Facility Manager         Other         SECTION B: THIS AREA         Complaint Processed b         Weather at Time of Co         Source:         Courtice WPCP Wea         Other:         Temperature:         Wind Speed:         Other Details:	ction to: Busine TO BE CON my: mplaint ther Stat	iately follow ess Manage IPLETED BY N (if required) ion Precipitati Wind Dire	Annage	Environn	int: nental Specialis	st (rain/snow and volum (direction wind is coming from

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# DYEC Record of Complaint

Tracking Number: \_\_\_\_\_(admin use only)

If no action was taken, specify why,

Describe actions/preventative actions taken to address the cause of the complaint.

Follow Up: (Include date for completion)

If no, please provide reason:

Was the MOECC contacted?  Yes No No No, Why not?				
Date of MOECC contact:	□Ve	rbal	□Written	Both
Name of MOECC contact:				
Contact Information:				
Other Comments:				
Complaint Processor:				
Signature:				
Facility Manager:				
Signature:	_			
Business Manager:				
Signature:				
Environmental Specialist:				
Signature:				
Date Closed:	-0			
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Appendix 3: Summary of Investigated Odour Complaints (November 1<sup>st</sup>, 2016 to October 31<sup>st</sup>, 2017)

Date Received:	July 26 <sup>th</sup> , 2016**
Method:	Durham Corporate Communications to DYEC Project Team Staff
Comment Details:	There's a smell of garbage in the air hwy2/Green Rd. Yesterday was very strong around 3pm. Could it be from the incinerator?
DYEC Activities:	The complaint was received from a location 5 km NE of the facility. On July 25 <sup>th</sup> , Covanta personnel were performing regular perimeter ring road facility walk-arounds ( <b>upwind and downwind</b> ) every 6 hours in association with Unit #1 being offline. No odours were detected during the 10am or 4pm walks. At the time of the complaint (July 25 <sup>th</sup> at 3pm) the Courtice Water Pollution Control Plant weather station recorded that the prevailing winds were from the NE (the same direction as the complaint) at 5 km/h. Receipt of MSW was approximately 250 tonnes or 7 trucks. There were no MSW trucks on site between 1:41pm and 3:15pm. Unit #2 was operating under normal conditions. After reviewing the data, it was concluded that the odour did not originate from the DYEC.
MOECC Contacted:	Yes. The MOECC was contacted and advised that based on the location of the complaint, the source of the odour would likely be in close proximity to the Hwy 2 and Green Road area and not related to the DYEC
Immediate Response:	Review of operational/process data
Further Actions:	Not required. Plant operations indicate that the facility would not be a cause of the odour complaint.

\*\*Note: This complaint was received outside of the reporting year but was omitted on last year's report.

Date Received:	November 16 <sup>th</sup> , 2016
Method:	DYEC Control Room
Comment	Control Room operator received a call from the OPG building across the
Details:	street. A gentleman stated he could smell a garbage like stench wafting from
	this direction and asked if were having issues here and could we investigate.
	The Complainant did not leave a name or number for a return call.
DYEC Activities:	Both units online at approximately 100% MCR. One truck had delivered MSW
	but had left the site at 07:25am.
MOECC	Yes. The MOECC was called at 08:45am to inform them of the odour
Contacted:	complaint and Covanta's investigation. The MOECC was onsite at 11:00am.
	Upon discussion at 12:10pm the MOECC agreed the odour was not coming
	from the DYEC.
Immediate	A Covanta Shift Supervisor did a perimeter ring road facility walk-around
Response:	(upwind and downwind) and did not identify any odours at the facility.
	Conditions at the time: ambient temperature 9°C, wind direction SE to NE at 0
	to 5 km/h. Due to variability in wind direction, a definitive odour vector could
	not be ascertained. Therefore, at 08:20am, Covanta's Environmental
	Specialist completed a drive around the immediate facility consisting of

Date Received:	November 16 <sup>th</sup> , 2016
	Courtice Shores Drive, Osborne Road and Energy Drive. An odour was noted (which smelled akin to compost) on the north side of Energy Drive and Osbourne Road. The odour increased to the north. The Environmental Specialist continued to follow the odour by driving north on Courtice Road, east on Baseline Road and north on Hancock Road where the odour reached maximum intensity. As a result of the additional investigation, it was
	concluded that the odour did not originate from the DYEC.
Further Actions:	Not required. Plant operations indicated that the facility would not be a cause of the odour complaint.