ANNUAL ENVIRONMENTAL REPORT ORMONDE ORGANICS LTD KILLOWEN, PORTLAW, CO. WATERFORD

LICENCE NO. W0287-01

JANUARY 2016 - DECEMBER 2016

Prepared For: -

Ormonde Organics Limited, Killowen, Portlaw, Co. Waterford

Prepared By: -

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Project	Annual Environmental Report 2016			
Client	Ormonde Organics Limited W0287-01			
Report No	Date	Status	Prepared By	Reviewed By
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1. INTRODUCTION

This is the 2016 Annual Environmental Report (AER) for the Ormonde Organics Ltd (Ormonde Organics) composting and anaerobic digestion installation at Killowen, Portlaw, Co. Waterford. The installation operates under an Industrial Emission Licence (IED) (W0287-01) which was granted by the Environmental Protection Agency (Agency) in October 2016. The report covers the period from the 13th October 2016 to the 31st December 2016.

The content of the AER is based on Schedule F of the Waste Licence (W0116-02) and the report format follows guidelines set in the "Guidance Note for Annual Environmental Report" issued by the Agency¹. Cognisance was also taken of the AER Draft Guidance Document issued in January 2012².

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¹ EPA (Environmental Protection Agency) 1999 Waste Licensing – Draft Guidance on Environmental Management Systems and Reporting to the Agency

² EPA (Environmental Protection Agency) 2012 Draft AER Guidance Document

2. SITE DESCRIPTION

2.1 Site Location and Layout

The installation is located at Killowen, approximately 3km north of Portlaw. The River Suir is approximately 350 metres from the north-eastern site boundary. The regional route R680 runs along the western boundary of the site and links Portlaw village to the south with Carrick-on-Suir to the north-west. The surrounding area is mainly agricultural land and individual dwellings.

The installation is divided into two sections, one area houses the compost building, weighbridge and administration building. This area is surrounded by palisade fencing and is accessed via a security gate. The second area is also surrounded by palisade fencing and accessed by a separate security gate. This area houses the Anaerobic digester (AD) tanks, combined heat and power (CHP) generator and a drier building. The installation as a unit is accessed by an external security gate.

2.2 Waste Management Activities

The licence allows Ormonde Organics to accept of 40,000 tonnes of organic waste annually, which includes:

- Municipal wastewater treatment sludge,
- Household biodegradable kitchen and canteen waste,
- Other biodegradable waste (Garden & Park Waste), and
- Septic Tank Sludge.
- Non-hazardous industrial and water treatment sludge.

2.2.1 Waste Types & Processes

Composting is carried out inside the main building, which has offices at the front. The kitchen wastes include materials defined as animal by-products (raw and cooked meats) and Ormonde Organics has obtained approval from the Department of Agriculture, Fisheries and Marine for approval to process these wastes.

The sludges are mixed with woodchip and then loaded into specially constructed compost bays in the Compost Building. The bays have pipes in the floor, through which air is pumped up into the mixture of sludge and woodchip. The objective is to maintain a high oxygen level in the mixture to encourage oxygen using (aerobic) bacteria to grow and feed on the organic matter.

Anaerobic digestion is carried out in purpose built digesters. The wastes are fed into large fully enclosed tanks, which are continuously stirred and the temperature rises to the optimal level. The gases are drawn off and treated and fed to on-site gas engines which generate electricity and heat. The residue from the process includes a fibre like solid and a liquid (digestate). The solid residue and digestate, which contain nutrients, are used on farmland as an alternative to chemical fertilisers. The incoming waste and digestate are stored in above ground tanks.

3. EMISSION MONITORING

Condition 6.2 and Schedule C of the Licence requires the monitoring of surface water, groundwater, dust, noise and air. Monitoring has not yet commenced at the facility. It is proposed to commence the monitoring programme once site development works involving the surface water storage tank has been completed.

4. SITE DEVELOPMENT WORKS

4.1 Specified Engineering Works

There were a no specified engineering works undertaken in 2016. Site development works planned for 2017 include:

- Installation of second gate valve at sump (from tank farm bund)
- CCTV survey to confirm integrity of holding tank for the bioscrubber, including pipework from tank to second biofilter,
- Move bunded oil tank
- Install bunded tank for AdBlu and waste oil.

4.2 Summary of Resource & Energy Consumption

Table 4.1 presents an estimate of the resources used on-site during the reporting period.

Table 4.1 Estimate of Resources Used On-Site from Oct - Dec 2016

Resources	Quantities 2016
Diesel (green)	30,000 litres
Electricity	610,000 kWh
Hydraulic & Engine Oil	200 litres
AdBlu	1,000 litres

5. WASTE RECEIVED AND CONSIGNED FROM THE INSTALLATION

Table 5.1 shows the total quantities of waste received and consigned from the installation in 2016. A breakdown of the waste types is provided in accordance with the European Waste Catalogue and Hazardous Waste list. A more detailed description of the wastes consigned is provided in the PRTR return in Appendix 1.

Table 5.1 Waste Received & Consigned 2016

EWC	Description	Waste In	Waste Out
02 02 03	Waste of animal origin unsuitable for consumption or processing	137.18	
02 02 04	Sludges from on-site effluent treatment (animal industry)	1,358.18	
02 05 01	Waste of dairy origin unsuitable for consumption or processing	321.43	
02 05 02	Sludges from on-site effluent treatment (dairy industry)	1,293.52	
02 06 01	Waste of bakery origin unsuitable for consumption or processing	211.48	
02 06 03	Sludges from on-site affluent treatment		
02 07 01	Waste from cleaning and mechanical treatment of materials (beverage industry)	33.78	
02 07 04	Waste from beverage industry unsuitable for consumption or processing	539.70	
O2 07 05 Sludges from on-site effluent treatment (beverage industry)		494.98	
19 08 05	Sludges from WWTP	7480.60	
20 01 08	Biodegradable kitchen & canteen waste	1,586.34	
20 01 25	Edible oil and fat	678.51	
	Total Received		
	Total Consigned		
Recovery			
Disposal			

14,373

Total Received	
Total Consigned	
Recovery	
Disposal	
Recovery Rate	

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

There were no reportable incidents at the installation in 2016.

6.2 Register of Complaints

Ormonde Organics maintains a register of complaints received at the installation offices. There were no complaints received in 2016.

7. ENVIRONMENTAL DEVELOPMENT

7.1 Environmental Management Programme Report

The proposed Schedule of Objectives and Targets for 2017 (Table 7.1) are presented below.

7.1.1 Site Management Structure

Management and Staffing structure: -

Name: Denis Mullally

Responsibility: Experience:

Name:

Responsibility: Experience:

7.1.2 Staff Training

Environmental training is carried out for any new staff employed at the installation as required. Copies of all training records are held in the installation office.

7.2 Environmental Management Programme

7.2.1 Schedule of Objectives 2017

The schedule of targets and objectives for 2017 are presented in Table 7.1.

7.3 Communications Programme

Ormonde Organics is committed to ensuring environmental compliance in all operations. To this end Ormonde Organics has drawn up a Communications Programme, which details how members of the public are facilitated in accessing and viewing environmental information at the installation. Members of the public who wish to inspect these files may do so at any reasonable time by making an appointment with the Operations Manager using the telephone number posted on the main installation entrance sign.

Table 7.1Schedule of Objective and Targets 2017

No.	Objective	Target	Timescale	Responsibility
1	Reduce Water Consumption	Reduce the on-site consumption of water via rainwater harvesting	Q3	Site Management
2	Energy Audit	Carry out Energy Audit at the installation	Q2	Site Management
3	Upgrade Storage Areas	Upgrade the chemical and fuel storage areas	Q2	Site Management
4	Emergency response procedures	Complete Emergency Response Procedure and ensure that all information & equipment required in case of an emergency is available. Confirm that relevant staff training adequately addresses.	Q4	Site Management/EHS
5	CRAMP, ELRA & Financial Provision	CRAMP, ELRA & Financial Provision to be carried out	Q2/Q3	EHS team

7.4 Report Financial Provision

A Closure and Decommissioning Plan and an Environmental Liabilities Risk Assessment (ELRA) including Financial Provision (FP) will be submitted to the Agency for their approval in 2017.

7.5 Nuisance Controls

Ormonde Organics has contracted a vermin control company to carry out nuisance control at the installation. Prevent a Pest provide pest control at the installation and also provide for the treatment of insects at the installation if necessary. A site inspection is carried out daily and recorded on the installation's inspection. These assessments were carried out in a manner consistent with the Agency Guidance Note for EPA Licensed Sites (AG5).

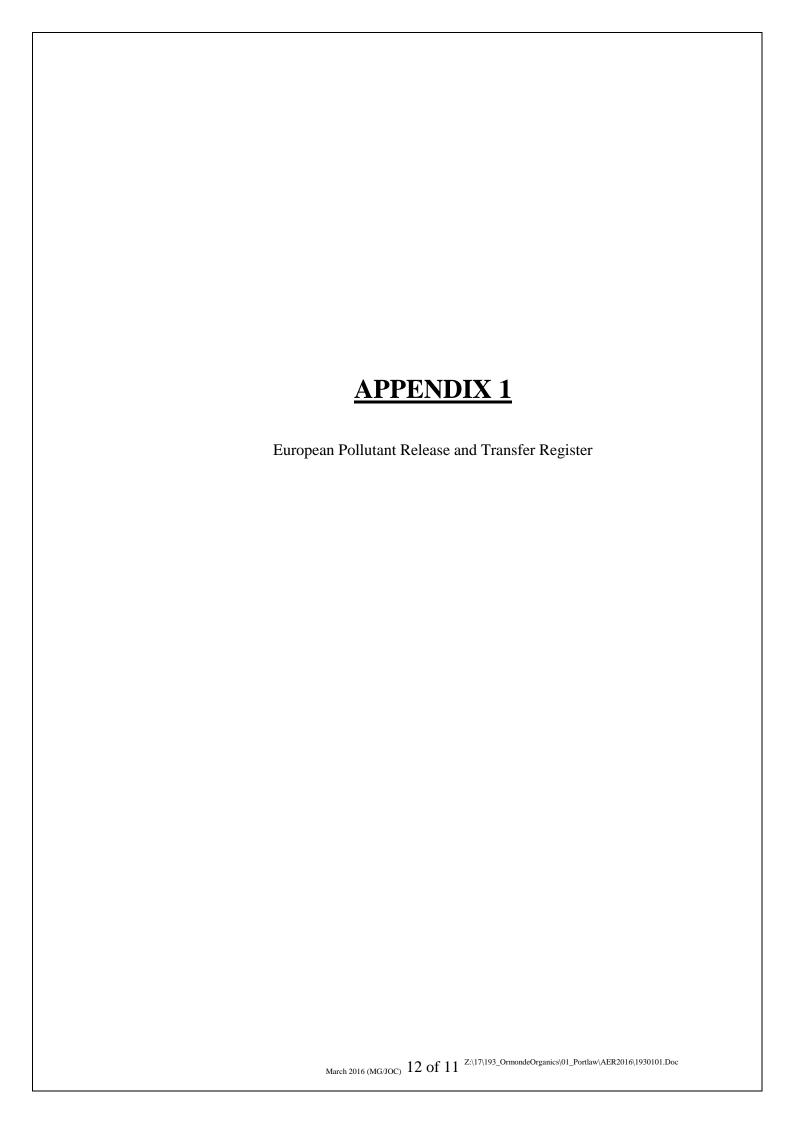
7.6 Foul water Volume Transported Off-Site

No wastewater was removed from site in 2016. 60 tonnes of wastewater was generated at the installation in 2016, this was re-used in the composting process.

8. OTHER REPORTS

8.1 European Pollutant Release and Transfer Register Regulation

Under the European Pollutant Release and Transfer Register Regulation (EC) No. 166/2006 GES are required to submit information annually to the Agency. A copy of the return submitted to the Agency via the web-based data reporting system is included in Appendix 1.





Guidance to completing the PRTR workbook

PRTR Returns Workbook

Version 1.1.19

I. FACILITY IDENTIFICATION		
Parent Company Name	Ormonde Organics Limited	
Facility Name	Ormonde Organics Limited (Portlaw)	
PRTR Identification Number	W0287	
Licence Number	W0287-01	

Classes of Activity

REFERENCE YEAR 2016

. class_name	No.
Refer to PRTR class activities below	-

Address 1	Killowen
Address 2	Portlaw
Address 3	
Address 4	
	Waterford
Country	Ireland
Coordinates of Location	-7.30808008699995 52.311138403
River Basin District	IESE
NACE Code	
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	
AER Returns Contact Email Address	
AER Returns Contact Position	
AER Returns Contact Telephone Number	
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	9.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	0
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

ET KIK CEACO ACTIVITED	
Activity Number	Activity Name
5(c)	Installations for the disposal of non-hazardous waste

3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)

Is it applicable?	
Have you been granted an exemption?	
If applicable which activity class applies (as per	
Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being	
used?	

4. WASTE IMPORTED/ACCEPTED ONTO SITE Guidance of

Do you import/accept waste onto your site for on-	
site treatment (either recovery or disposal	
activities) ?	

This question is only applicable if you are an IPPC or Quarry site