ANNUAL ENVIRONMENTAL REPORT

JANUARY 2017
TO
DECEMBER 2017

Licence Number:	**W0270-01**
Licensee:	**Miltown Composting Systems Ltd**
Location of Activity:	**Milltownmore** **Fethard** **Co. Tipperary**
Attention:	**Office of Environmental Enforcement** **EPA Regional Inspectorate Kilkenny** **Seville Lodge** **Callan Road** **Kilkenny**

CONTENTS

SECTION 1

INTRODUCTION

1.1 INTRODUCTION

The following is the Annual Environmental Report (AER) for the period January 2017 to December 2017 at Miltown Composting Ltd.

The company was granted an EPA Waste Licence No. W0270-01 on the 9th September 2010. This is the 2017 Annual Environmental Report of Miltown Composting Ltd and detailed within is a summary of all activities on-site during this period that has had an influence on the environmental performance of the company. Current guidance from the Agency requires that the AER is referenced per calendar year.

This AER reflects company's commitment to achieving objectives of a documented ongoing improvement programme at the site.

1.2 SITE DESCRIPTION

Site Location
The site is located in the townland of Milltownmore, approximately 6 km to the east of Fethard and 10 km to the south west of Cashel. The site is accessed by a private road off the Rosegreen to Fethard third class public road.

Layout
The site encompasses approximately 5.9 hectares. It is at an elevation of approximately 139m Ordnance Datum (OD) and slopes gently to the west from a high point in the east.

It is occupied by the Reception shed and three main composting buildings-Sheds 1, 2 and 3- a covered yard, and paved open yards; weighbridge, office; canteen/changing room; storage shed; wetlands, biofilter and former cattle sheds. The base for a proposed lined slurry storage lagoon is located to the west of the cattle sheds and is currently used to store building materials. The area to the north of the shed is undeveloped and formerly used for animal grazing. The rest is a series of constructed wetlands in the south west of the site.

Site History
The site was originally used for agricultural purposes. The cattle sheds and Shed 1 were originally constructed to house pigs, cattle, meat and bone meal and animal feed. In 2004 South Tipperary County Council granted planning permission and a Waste Permit for composting (in-vessel and maturation) to be carried out in Shed 1.

The Council issued a revised Waste Permit in May 2008 and this is valid until May 2015. In March 2009 the Council granted planning permission for the retention of the offices, canteen/changing room, underground leachate storage tanks, and weighbridge.

Operational & Waste Acceptance Hours
The normal operational hours are 06.00 to 18.00 Monday to Saturday. Materials are accepted between the hours of 08.00 and 18.00.

1.2.1 DESCRIPTION OF ACTIVITY

Overview

The facility is a composting plant that accepts a broad range of compostable materials including source segregated household kitchen waste; catering wastes; non-hazardous industrial and municipal waste water sludges and organic fines generated in the treatment of mixed municipal solid waste (MSW).

The treatment process, depending on the nature of the source material, can involve initial screening to remove contaminants, blending with bulking agents, composting in separate enclosed tunnels and open bays, maturation in windrows and post treatment to remove impurities.

Due to the modular lay-out, the tunnels/bays can be operated independently, which provides flexibility in treating the different organic waste streams. The finished product can, depending on quality, either be used for horticultural and agricultural purposes, or as landfill cover.

Site Layout/Buildings & Hardstanding

Waste reception and blending is carried out in the Reception shed (area 700m²), in-vessel composting is carried out in Shed No 1, which occupies an area of 1,700m². Maturation is carried out in Sheds 2 and 3, which occupy 2,840 m².

The site office is a portacabin located at the north-west corner of Shed 1. A small canteen/changing room is located to the south west of Shed 1. The previously open fronted shed to the west of the canteen, which is used for the storage of green waste bulking materials and shredded wood has been incorporated into the reception shed, lubricating/hydraulic oil is stored in an enclosed and bunded area attached to the north side of the reception shed, and the power washer is located on the delivery ramp of the reception shed

The covered yard to the east of Shed 1 is paved with concrete. The biofilter is located on the southern side of Shed 1 and is accessed by an unpaved road running along the southern side of Sheds 1 and 2.

Composting Process

Waste Reception Areas

In the reception area, the MSW fines may, depending on composition be shredded to enhance the composting process. The source segregated household and catering organic waste may be screened to remove contaminants. The wastewater treatment sludges are mixed with a bulking agent e.g. shredded green waste to improve porosity.

Thermophilic Stage

The materials are transferred from the reception area to the vessels using the telescopic loaders. The material placed in each of the vessels is assigned an individual batch number to allow performance monitoring during the treatment stages and ensure the maintenance of accurate records.

Five (5 No.) temperature probes are placed within the waste mass before the sheeting is placed over the top of the vessel. There is a computerised process control system, located in the site office, which records the temperature in each vessel to ensure that optimum composting conditions are maintained. In addition to the constant temperature monitoring, oxygen levels are monitored daily using a hand held probe. The moisture level is assessed either visually or using a hand held moisture meter. In order to comply with the Animal By-Products Regulations a 'two barrier' system is operated in the MSW/kitchen/catering waste processing area. The objective is to ensure a maximum particle size of 40mm and achieve a sustained temperature of 60°C over two separate 48 hour periods.

The MSW fines as delivered typically have a particle size less than 40mm. Large items are manually removed before the materials are composted. Maintaining the temperature at 60°C for the two separate time periods is done by composting the same batch in two different vessels.

In the first vessel, or Barrier 1, the process usually takes one week. When completed, the material is removed to a second vessel-Barrier 2-where it is thoroughly mixed and again composted until the temperature requirements are met. To avoid cross contamination different loaders and buckets are used to move the materials into and out of the vessels.

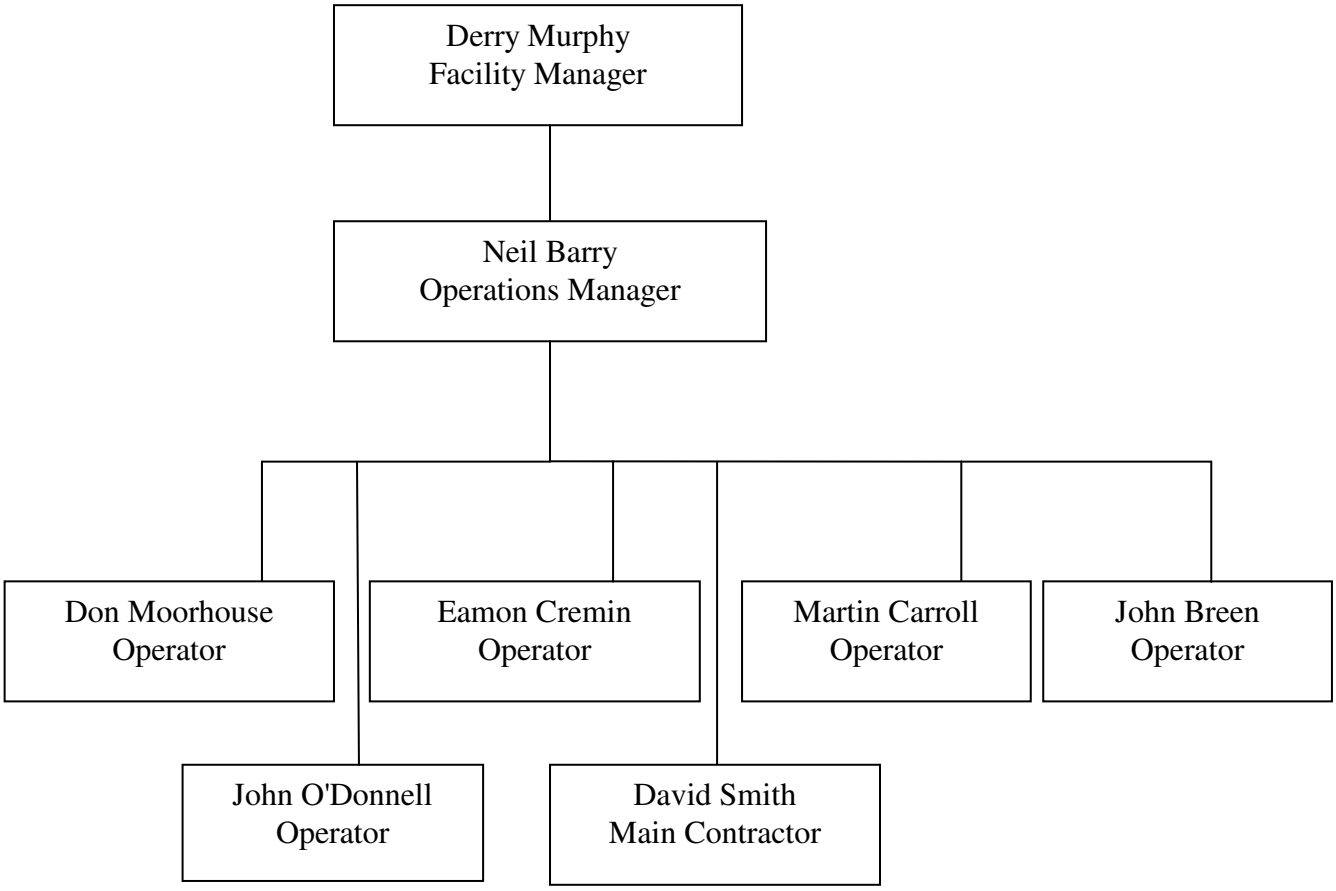
Mesophilic Stage

When the material has completed the thermophilic stage it is removed from the vessel and transferred to Sheds 2 and 3 where it is formed into windrows. Depending on the source of the materials it may be blended with shredded green waste to improve porosity. The windrows are formed using the loader and are turned as required using either the specialized turner or the loader.

Temperature, oxygen and moisture content are regularly monitored and moisture and the turning regime amended as required to ensure optimum conditions. The mesophilic stage can take up to 6 weeks.

When complete the compost may, depending on the nature of the source material, be screened to remove contaminants. These are stored on-site in Shed 3 pending consignment to off-site disposal/treatment facilities.

1.2.2 Organisational Chart 2017



Section 2

DATA

2.1 WASTE MANAGEMENT

TABLE 2.1.1 – ANNUAL WASTE INTAKE 2017		
Waste Type	EWC Code	2017 Intake Tonnes
Waste from the mechanical treatment of wood waste	19 12 07	1165.88
Organic Fines	19 12 12	32783.69

2.2 ENVIRONMENTAL MONITORING

2.2.1 Groundwater Results 2017

Table 2.2.1 / 2 – Groundwater Analysis Results 2017

2.2.1 GENERAL CHEMICAL ANALYSIS RESULTS			
Parameter	**GW1**	**GW2**	**GW3**
Chloride (mg/l)	76	130	37
Conductivity (uS/cm)	639	878	297
Nitrate (mg/l)	1.4	0.3	7.8
pH	6.5	6.5	6.3
Total Nitrogen (mg/l)	2.5	<1	8.7
Ammonia (mg/l)	0.127	0.061	0.009

TABLE 2.2.2 - VOC ANALYSIS USEPA 524.2			
VOC's (µg/l)	**GW1**	**GW2**	**GW3**
Dichlorodifluoromethane	<10	<10	<10
Chloromethane	<0.5	<0.5	<0.5
Vinyl chloride	<0.5	<0.5	<0.5
Bromomethane	<0.5	<0.5	<0.5
Chloroethane	<0.5	<0.5	<0.5
Trichlorofluoromethane	<0.5	<0.5	<0.5
1,1-Dichloroethene	<0.5	<0.5	<0.5
Dichloromethane	<0.5	<0.5	<0.5
trans-1,2-Dichloroethene	<0.5	<0.5	<0.5
1,1-Dichloroethane	<0.5	<0.5	<0.5
2,2-Dichloropropane	<0.5	<0.5	<0.5
cis-1,2-Dichloroethene	<0.5	<0.5	<0.5
Bromochloromethane	<0.5	<0.5	<0.5
Chloroform	<1	<1	<1
1,1,1-Trichloroethane	<0.5	<0.5	<0.5
Carbon Tetrachloride	<0.5	<0.5	<0.5
1,1-Dichloropropene	<0.5	<0.5	<0.5
Benzene	<0.1	<0.1	<0.1
1,2-Dichloroethane	<0.1	<0.1	<0.1
Trichloroethene	<0.1	<0.1	<0.1
1,2-Dichloropropane	<0.5	<0.5	<0.5
Dibromomethane	<0.5	<0.5	<0.5
Bromodichloromethane	<2.0	<2.0	<2.0
Toluene	<0.5	<0.5	<0.5
1,1,2-Trichloroethane	<2.0	<2.0	<2.0

TABLE 2.2.2 - VOC ANALYSIS USEPA 524.2 (CONTINUED)			
VOC's (µg/l)	**GW1**	**GW2**	**GW3**
1,1,1,2-Tetrachloroethane	<2.0	<2.0	<2.0
m,p-Xylene	<0.5	<0.5	<0.5
Styrene	<2.0	<2.0	<2.0
Isopropylbenzene	<0.5	<0.5	<0.5
Propylbenzene	<0.5	<0.5	<0.5
2-Chlorotoluene	<0.5	<0.5	<0.5
4-Chlorotoluene	<0.5	<0.5	<0.5
1,2,4-Trimethylbenzene	<0.5	<0.5	<0.5
P - Isopropyltoluene	<0.5	<0.5	<0.5
1,4-Dichlorobenzene	<0.5	<0.5	<0.5
1,2-Dichlorobenzene	<0.5	<0.5	<0.5
Naphthalene	<2.0	<2.0	<2.0
1,3-Dichloropropane	<0.5	<0.5	<0.5
cis-1,3-Dichloropropene	<2.0	<2.0	<2.0
trans-1,3-Dichloropropene	<2.0	<2.0	<2.0
Dibromochloromethane	<1.0	<1.0	<1.0
Chlorobenzene	<0.5	<0.5	<0.5
Ethyl Benzene	<0.5	<0.5	<0.5
o-Xylene	<0.5	<0.5	<0.5
Bromoform	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	<2.0	<2.0	<2.0
Bromobenzene	<0.5	<0.5	<0.5
Tert-Butylbenzene	<0.5	<0.5	<0.5
Sec-Butylbenzene	<0.5	<0.5	<0.5
1,3,5-Trimethylbenzene	<0.5	<0.5	<0.5
1,2- Dibromo-3-chloropropane	<2.0	<2.0	<2.0
Hexachlorobutadiene	<5.0	<5.0	<5.0
1,2,3-Trichlorobenzene	<0.5	<0.5	<0.5
1,3-Dichlorobenzene	<0.5	<0.5	<0.5
Tetrachloroethene	<0.1	<0.1	<0.1
n-butylbenzene	<0.5	<0.5	<0.5
Acetone	<2	<2	<2
Methyl Iodide	<0.5	<0.5	<0.5
Carbon disulphide	<0.5	<0.5	<0.5
Diethyl Ether	<0.5	<0.5	<0.5
Nitrobenzene	<0.5	<0.5	<0.5
Propanenitrile	<10	<10	<10
MtBE	<0.5	<0.5	<0.5
2 Butanone	<5	<5	<5
2 Hexanone	<1	<1	<1
Hexacloroethane	<5	<5	<5
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5
Acrylonitrile	<2	<2	<2

TABLE 2.2.2 - VOC ANALYSIS USEPA 524.2 (CONTINUED)			
VOC's (µg/l)	**GW1**	**GW2**	**GW3**
Chloromethyl Cyanide	<0.5	<0.5	<0.5
Methyl Acrylate	<0.5	<0.5	<0.5
Methacrylonitrile	<5	<5	<5
Tetrahydrofuran	<0.5	<0.5	<0.5
1-Chlorobutane	<0.5	<0.5	<0.5
Methyl Methacrylate	<0.5	<0.5	<0.5
MIBK	<2	<2	<2
Ethyl Methacrylate	<2	<2	<2
1,2 - dibromoethane	<0.5	<0.5	<0.5
1,1,2,2-tetrachloroethane	<0.5	<0.5	<0.5
Trans 14 Dichloro 2 butene	<2	<2	<2

2.2.2 Dust Monitoring 2017

TABLE 2.2.3 - DUST RESULTS 2017			
Month	**D1** ($mg/m^2/day$)	**D2** ($mg/m^2/day$)	**D3** $mg/m^2/day$)
July	212	212	194
August	334	71	170
November	88	64	164

2.2.3 Biofilter Monitoring 2017

TABLE 2.2.4 MONITORING RESULTS FROM THE BIOFILTER MEDIA 15/6/17	
Parameter	Result
% Moisture	70.83
pH	7.2
Ammonia (mg/kg)	39.78
Total Viable Counts @ 30ºC (Solid) cfu/g	$>3 \times 10^6$

TABLE 2.2.5 MONITORING RESULTS FROM THE BIOFILTER MEDIA 5/9/17	
Parameter	Result
% Moisture	69.21
pH	6.8
Ammonia (mg/kg)	67.40
Total Viable Counts @ 30ºC (Solid) cfu/g	1.7×10^6

TABLE 2.2.6 BIOFILTER INLET EMISSION LEVELS 15/6/17		
Parameter	Inlet 1 Concentration (ppm)	Inlet 2 Concentration (ppm)
Hydrogen Sulphide	<0.2	<0.2
Ammonia	20	10
Mercaptans	0.5	<0.5
Amines	Negative	Negative

TABLE 2.2.7 BIOFILTER OUTLET EMISSION LEVELS 15/6/17	
Parameter	Outlet Concentration (ppm)
Hydrogen Sulphide	<0.2
Ammonia	<5
Mercaptan	<0.5
Amines	Negative

TABLE 2.2.8 BIOFILTER INLET EMISSION LEVELS 5/9/17		
Parameter	Inlet 1 Concentration (ppm)	Inlet 2 Concentration (ppm)
Hydrogen Sulphide	<0.2	<0.2
Ammonia	15	15
Mercaptans	0.5	<0.5
Amines	Negative	Negative

TABLE 2.2.9 BIOFILTER OUTLET EMISSION LEVELS 5/9/17	
Parameter	Inlet Concentration (ppm)
Hydrogen Sulphide	<0.2
Ammonia	<5
Mercaptan	<0.5
Amines	Negative

2.2.4 PM10 Monitoring 2017

TABLE 2.2.10 RESULTS OF PM_{10} MONITORING 2017			
Sampling Location	Date	Weight Gain (g)	Concentration ($\mu g/m^3$)
Location 1	15/6/17 - 16/6/17	0.0152	2.11
Location 1	11/12/17 - 12/12/17	0.0135	1.875

2.2.5 Odour Monitoring 2017

TABLE 2.2.11 METEOROLOGICAL CONDITIONS Q2 / Q4		
Parameter	**Q2 2017**	**Q4 2017**
Wind speed (km/hr)	25-30	10-15
Wind direction	South-westerly	South-westerly

TABLE 2.2.12 ODOUR SAMPLING RESULTS Q2 2017		
Locations	**On site observations**	**Results**
OD1 Biofilter	Waste/Compost odour	287 ou_E/m^3
OD2 550m downwind of site	No distinct odour	82 ou_E/m^3

TABLE 2.2.13 CHEMICAL ANALYSIS Q2 2017				
Sample	Hydrogen Sulphide	Ammonia	Mercapten	Amines
OD 01	<0.2	<5	<0.5	Negative
OD 02	<0.2	<5	<0.5	Negative

TABLE 2.2.14 ODOUR SAMPLING RESULTS Q4 2017		
Locations	**On site observations**	**Results**
OD 01 At biofilter unit	Waste/Compost Odour	493 ou_E/m^3
OD 02 550 meters downwind	No Distinct Odour	67 ou_E/m^3

TABLE 2.2.15 CHEMICAL ANALYSIS Q4 2017				
Sample	Hydrogen Sulphide	Ammonia	Mercapten	Amines
OD 01	<0.2	<5	<0.5	Negative
OD 02	<0.2	<5	<0.5	Negative

2.2.6 Noise Monitoring 2017 - 12/12/17

TABLE 2.2.16: DAY-TIME NOISE MEASUREMENT RESULTS 07:50 to 13:00					
Location / Measurement No.	Measurement Period (min)	L_{eq} dB(A)	L_{10} dB(A)	L_{90} dB(A)	$L_{F\ Max}$ dB(A)
NSL No1	30	52	56	38	77
NSL No2	30	50	54	38	80
NSL No3	30	42	50	37	59

2.2.7 Surface Water 2017

Table 2.2.17 - Surface water Results 2017 for SW1			
Sample ID	BOD (mg/l)	Suspended Solids (mg/l)	Ammonia (mg/l)
SW1 2/2/17	<2	<5	0.27
SW1 11/10/17	2	<5	0.39

2.2.8 Non-Compliances 2017

Table 2.2.18 Details of Reported Non-compliance 2017	
Date	**Non-compliance**
12/12/17	Monitoring non-compliance -Condition 5.1 - Elevated ammonia levels at SW1

2.3 RESOURCE USAGE

The summary details of energy and water usage at the plant for the period January 2017 to December 2017 is detailed in Table 2.3.1 below.

Resources	Quantities
Diesel	53067 L
Electricity	323560 Kw/Hr
Hydraulic, Transmission & Engine Oil	3500 L
Detergent	40 L
Anti Freeze	200 L

2.4 ENVIRONMENTAL INCIDENTS AND COMPLAINTS

2.4.1 Incidents report for the period January 2017 to December 2017.

Incident	Incident Category	Start date	Notified	Likely Cause
Storm Water Trigger level exceeded	1	12/12/17	14/12/17	Storm Damage to shed roofs during storm Ophelia

2.4.2 There were no complaints to report for the period January 2017 to December 2017

2.5 ENVIRONMENTAL SPENDING

The itemised spend on environmental issues at Miltown Composting Limited is listed below.

January 2017 – December 2017	**€**
EPA Fee's	9701
Waste Licence management	11756
Environmental Improvements	67000
Total Spend	88457

2.6 ENVIRONMNETAL TRAINING

Copy of environmental training record included in Attachment 2.

Environmental Management Programme for 2018.

Review of Objectives and Targets for the period January to December 2017

Tables EMP 1.1 to 1.5 reviews the Objectives and Targets set for 2017. A number of the listed Objectives and their subsequent targets are cyclical as the company attempts to achieve continuous environmental improvement.

Tables EMP 2.1 to 2.5 set out the Objectives and Targets for 2018. A number of the listed Objectives and their subsequent targets are cyclical as the company attempts to achieve continuous environmental improvement.

MILTOWN COMPOSTING LTD
ENVIRONMENTAL OBJECTIVES AND TARGETS 2018

Item No	OBJECTIVE	TARGET	RESPONSIBLE PERSON
1	Water Management	• Maintain checklist for alarms and daily records • Await EPA decision RE Reed bed use in the licence application	D.Murphy
2	Energy Management	• Awaiting licence application decision prior to determining the sites base load. • Investigate potential for Anaerobic Digestion (AD) plant • Study possibility of installing CHP plant.	D.Murphy
3	EMS	• Maintain EMS documentation. • Submit storage plan for site as per technical amendment A to W0270-01	D.Murphy
4	Licence Management	• Prepare groundwater contouring maps. • Assess nuisance control procedures and practices. • Undertake all environmental monitoring as per licence	D.Murphy
5	Increase Tonnage	• New IED application requested by the EPA. • Ensure compliance with IED licence following grant of licence.	D.Murphy

Water Pollution Prevention EOT 1.1

Objective	Target	Target Date	Method	2017 Review
Water Pollution Prevention	Maintain checklist for alarms and daily records	Continuous 2017	Fill in the daily checklist and site alarms	Complete
	Complete the construction of covering for final unroofed yard	Q1 /Q2 2017	Finish the construction of the roof over final uncovered yard	Complete April 2017
	Get permission to use reed beds for managing the discharge of surface waters from the site	Q1 2017	Liaise with EPA RE the use of the reed beds.	Use of reed beds included in new licence application

Energy management EOT 1.2

Objective	Target	Target Date	Method	2017 Review
Energy Management	Assess wind power options for the site including a determination of the sites base load.	2017	Investigate wind power options for the site.	Move to 2018
	Investigate potential for Anaerobic Digestion (AD) Plant.	2017	Carry out a review of AD plants and the feasibility of installing a plant at the Milltown Compost Site Also assess renewable heat incentives	Move to 2018
	Study possibility of installing a CHP plant in conjunction with AD plant.	2017	Further to the review of the AD plant a further review of a CHP plant to be carried out.	Move to 2018

Environmental Management System EOT 1.3

Objective	Target	Target Date	Method	2017 Review
E.M.S	Maintain EMS documentation.	Q2 2017	Review all EMS procedures	Complete
	Prepare waste storage plan for the site as per technical amendment A to waste licence W0270-01	Q3 2017	Prepare storage plan as per condition 8.12 of the waste licence	Due for submission April 2018
	Fire risk assessment required as part of waste storage plan.	Q1/2 2017	Fire water risk assessment required as per condition 9.5 of the licence	Submitted and approved 2017

Licence Management EOT 1.4

Objective	Target	Target Date	Method	2017 Review
Licence Management	Prepare groundwater contouring maps.	2017	Further to desktop hydrogeological study - use of groundwater modelling software to produce a contour map	Due Q2 2018
	Assess nuisance control procedures and practices.	Continuous 2017	Review procedures. Ensure 6 weekly visits of nuisance control company occurs.	Complete
	Undertake all environmental monitoring as per licence.	2017	1 x Noise Survey 2 x Odour Assessment 3 x Dust Monitoring 2 x Biofilter Analysis 1 x Bioaerosol Study 2 x PM10 Survey	Complete

Site Management EOT 1.5

Objective	Target	Target Date	Method	2017 Review
Increase Tonnage	Finalise planning application for increased tonnage.	2017	Submit Planning application to Tipperary county council.	complete
	Review of waste licence following grant of planning.	2017	Undertake a licence review as per EPA guidelines	EPA requested a new IED application be submitted- due Q1 2018

Water Pollution Prevention EOT 2.1

Objective	Target	Target Date	Method
Water management	Maintain checklist for alarms and daily records	Continuous 2017	Fill in the daily checklist and site alarms
	Await EPA decision RE Reed bed use in the licence application	Q2 -Q3 2018	Further to EPA decision - commence using reed beds to treat site run-off.

Energy Management EOT 2.2

Objective	Target	Target Date	Method
Energy Management	Assess wind power options for the site including a determination of the sites base load.	2018	Investigate wind power options for the site.
	Investigate potential for Anaerobic Digestion (AD) Plant.	2018	Carry out a review of AD plants and the feasibility of installing a plant at the Milltown Compost Site Also assess renewable heat incentives
	Study possibility of installing a CHP plant in conjunction with AD plant.	2018	Further to the review of the AD plant a further review of a CHP plant to be carried out.

Environmental Management System EOT 2.3

Objective	Target	Target Date	Method
EMS	Maintain EMS documentation.	Q3 2018	Review all EMS procedures
	Prepare waste storage plan for the site as per technical amendment A to waste licence W0270-01	Q2 2018	Prepare storage plan as per condition 8.12 of the waste licence

Licence Management EOT 2.4

Objective	Target	Target Date	Method
Licence Management	Prepare groundwater contouring maps.	Q1 2018	Further to desktop hydrogeological study - use of groundwater modelling software to produce a contour map
	Assess nuisance control procedures and practices.	Continuous 2018	Review procedures. Ensure 6 weekly visits of nuisance control company occurs.
	Undertake all environmental monitoring as per licence.	2018	1 x Noise Survey 2 x Odour Assessment 3 x Dust Monitoring 2 x Biofilter Analysis 1 x Bioaerosol Study 2 x PM10 Survey

Site management EOT 2.5

Objective	Target	Target Date	Method
Increase tonnage	New IED application requested by the EPA	Jan 2018	Prepare and submit IED application
	Ensure compliance with conditions of IED licence following grant of licence	Q2-Q3 2018	Prepare a schedule of works to ensure compliance with all conditions of new licence - further to grant of licence by the EPA.

Appendix 1

PRTR Scans

Environmental Protection Agency

Guidance to completing the PRTR workbook

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR	2017

1. FACILITY IDENTIFICATION

Parent Company Name	Miltown Composting Systems Limited
Facility Name	Miltown Composting Systems Limited
PRTR Identification Number	W0270
Licence Number	W0270-01

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Miltownmore
Address 2	Fethard
Address 3	County Tipperary
Address 4	
	Tipperary
Country	Ireland
Coordinates of Location	-7.76889 52.45236
River Basin District	IESE
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	Derry Murphy
AER Returns Contact Email Address	derry@miltowncomposting.ie
AER Returns Contact Position	Site manager
AER Returns Contact Telephone Number	0874125625
AER Returns Contact Mobile Phone Number	0874125625
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	1
Number of Operating Hours in Year	3648
Number of Employees	7
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
50.1	General

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 on waste imported/accepted onto site

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

4.1 RELEASES TO AIR

Link to previous years emissions data

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

SECTION C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

RELEASES TO AIR					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
215	Hydrogen sulphide	M	OTH	Dreagar Tube	0.0	0.0	0.0	0.0
220	**Mercaptans**	M	OTH	Dreagar Tube	0.0	0.0	0.0	0.0

* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill: Miltown Composting Systems Limited

Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Used: Method Code	Method Used: Designation or Description	Facility Total Capacity m3 per hour	
Total estimated methane generation (as per site model)	0.0				N/A	
Methane flared	0.0				0.0	(Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section A above)	0.0				N/A	

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	16 01 17	No	13.36	ferrous metal	R4	M	Weighed	Offsite in Ireland	Southern truck Recycling,WFP-CK-09-0039-02	Cloughleafin,Mitchestown,Co. Cork,"","Ireland		
Within the Country	19 05 01	No	61.0	non-composted fraction of municipal and similar wastes	R5	M	Weighed	Offsite in Ireland	Greyhound Recycling ,W0205-01	Crag avenue,Clondalkin Ind est,Clondalkin,Dublin 22,Ireland		
Within the Country	19 05 99	No	16966.51	wastes not otherwise specified	R10	M	Weighed	Offsite in Ireland	Bord na Mona Drehid landfill,W0201-03	Killinagh Lower Upper,"","Carbury,Co. Kildare,Ireland		
Within the Country	19 05 99	No	1226.14	wastes not otherwise specified	D1	M	Weighed	Offsite in Ireland	Bord na Mona Drehid landfill,W0201-03	Killinagh Lower Upper,"","Carbury,Co. Kildare,Ireland		
Within the Country	19 05 99	No	5296.3	wastes not otherwise specified	R10	M	Weighed	Offsite in Ireland	Galway county Council - East Galway landfill,W0178-02	Killagh more,Ballybaun,Ballinasloe,Co. Galway,Ireland		
Within the Country	19 05 99	No	1630.84	wastes not otherwise specified	R10	M	Weighed	Offsite in Ireland	Knockharley landfill,W0146-03	Knockharley ,Navan,Co. Meath,"","Ireland		
Within the Country	19 05 99	No	4649.8	wastes not otherwise specified	R10	M	Weighed	Offsite in Ireland	Ballynagran,W0165-02	ballynagran,Coolbeg,Co. Wicklow,"","Ireland		
Within the Country	**19 12 02**	**No**	16.04	ferrous metal	R4	M	Weighed	Offsite in Ireland	Southern truck Recycling,WFP-CK-09-0039-02	Cloughleafin,Mitchestown,Co. Cork,"","Ireland		

* Select a row by double-clicking the Description of Waste then click the delete button

Appendix 2

Training Records

Task/Work Practice	**Specific Training Provided** *(In-House/Outside Agency/Date)*	**Name of Employee**
Health & Safety Requirments	IN HOUSE AWARENESS TRAINING WITH FACILITY MANAGER - DERRY MURPHY 24/1/2017	MARTIN CARROLL Martin Carroll
WASTE LICENSE REQUIRMENTS MC01 WASTE ACCEPT	IN HOUSE WITH DERRY MURPHY 7/2/17	NEIL BARRY Neil Barry EAMONN CREMIN E.C.
MC02 COMPOST SAMPLING MC03 CLEANING & HYGIENE MC04 LOADING & UNLOADING MC05 BATCH TRACABILITY	APB'S	JOHN BREEN John Breen DON MOOREHOUSE Don Moorehouse
MC06 HANDLING OF LEACHATE MC07 NON CONFORMANCE & CORRECTIVE ACTION MC08 MICROBIO NON COMPLIANCE MC09 DATA MANAGEMENT		MARTIN CARROLL Martin Carroll
MC10 OIL INTERCEPTOR MAINTENANCE MC11 INCIDENT NOTIFICATION MC12 STORM WATER VISUAL MC13 STORM WATER TRIGGER LEVEL	7/2/17	
EMERGENCY RESPONCE PROCEDURE ACCIDENT PREVENTION PROCEDURE	IN HOUSE WITH FACILITY MANAGER DERRY MURPHY 16/2/2017	NEIL BARRY Neil Barry EAMONN CREMIN E.C.

JOHN BREEN John Breen
DON MOOREHOUSE Don Moorehouse
MARTIN CARROLL Martin Carroll

Task/Work Practice	**Specific Training Provided** *(In-House/Outside Agency/Date)*	**Name of Employee**
In the event of an Odour Complaint – carrying out sniff testing according to Air Guidance Note 5 (AG5)	Awareness of the Requirements of AG5 and the use of the Odour Investigation Field Record Sheet'	DERRY Murphy 3/5/17 NEIL BARRY Neil Barry 3-5-17
Safe use of fire fighting Equipment	Brendan Halpin Apex Fire LTD 23/6/2017	DERRY MURPHY NEIL BARRY Neil B EAMONN CREMIN E.C. DON Moorehouse
—		Martin Carroll MC John BREEN JB DIARMUID O SULLIVAN DOS
Health & Safety Awareness	DERRY MURPHY 7/8/2017	John O Donnell John O Donnell
WASTE LICENCE Requirements	with Derry Murphy 10/8/2017	John O Donnell John O Donnell

Attachment G.

Staff Training Log

Date	PRP/Task	Employee	Signature	Training by	Signature
15/11/17	UPDATED HACCP Plan	NEIL BARRY EAMONN CREMIN JOHN BREEN	Neil Barry E.C. John Breen	DERRY MURPHY	
		MARTIN CARROLL JOHN O DONNELL	Martin Carroll John O'Donnell		
16/11/17	PRP # 1 INTAKE PROCEDURE PRP # 2 BIOSECURITY PROCEDURE PRP # 3 CLEANING, HYGIENE & MAINTENANCE Procedure PRP # 4 PEST CONTROL Procedure	NEIL BARRY EAMONN CREMIN JOHN BREEN	Neil Barry E.C. John Breen	DERRY MURPHY	
	PRP # 5 DISPATCH PROCEDURE RRP # 6 TRANSFORMATION PROCEDURE	MARTIN CARROLL JOHN O DONNELL	Martin Carroll John O'Donnell		