

ANNUAL ENVIRONMENTAL REPORT

JANUARY 2015
TO
DECEMBER 2015

Licence Number: W0270-01

Licensee: Miltova Composting Systems Ltd

Location of Activity: Milltownmore
Fethard
Co. Tipperary

Attention: Office of Environmental Enforcement
EPA Regional Inspectorate Kilkenny
Seville Lodge
Callan Road
Kilkenny

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SECTION 1

INTRODUCTION

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1.1 INTRODUCTION

The following is the Annual Environmental Report (AER) for the period January 2015 to December 2015 at Miltown Composting Ltd.

The company was granted an EPA Waste Licence No. W0270-01 on the 9th September 2010. This is the 2015 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.

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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 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.

In 2007 Miltown moved the maturation process to Sheds 2 and 3. In January 2008 there was a fire at the site, when the compost turner went on fire. The turner was destroyed and the fabric of Shed 3 was damaged. 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, blending and in-vessel composting is carried out in Shed No 1, which occupies an area of 1,700 square meters (m²). 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. There is an open fronted shed to the west of the canteen, which is used for the storage of green waste bulking materials and shredded wood. A Container located at the northern side of the canteen is used to store lubricating/hydraulic oil and the power washer.

The covered yard to the east of Shed 1 and the open yards to the west of Shed 1 and west of the cattle sheds are 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.

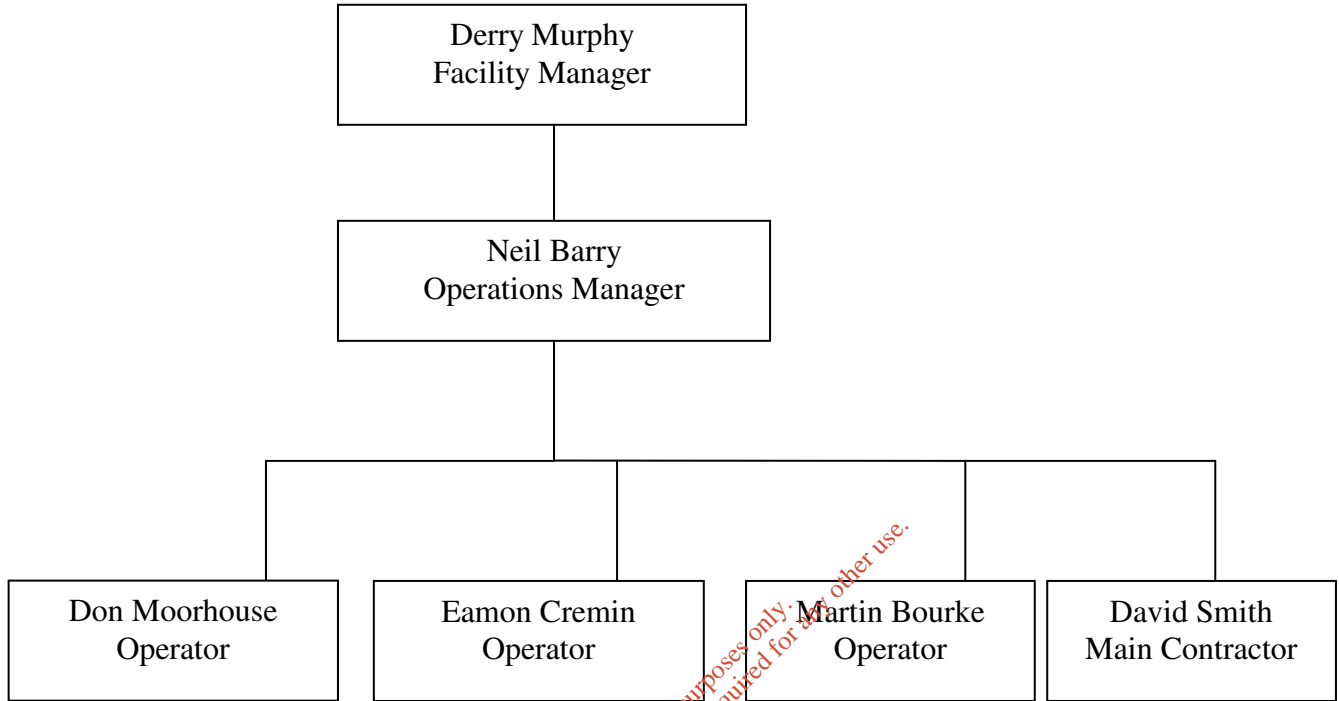
Mesophilic Stage

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 telescopic 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 2015



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Section 2

DATA

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2.1 WASTE MANAGEMENT

TABLE 2.1.1 – ANNUAL WASTE INTAKE 2015		
Waste Type	EWC Code	2015 Intake Tonnes
Waste from the mechanical treatment of wood waste	19 12 07	118.45
Garden and park waste from municipal sources	20 02 01	387.64
Organic Fines	19 12 12	23924.258
Edible oils and fats	20 01 25	1.12

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2.2 ENVIRONMENTAL MONITORING

2.2.1 Groundwater Results 2015

Table 2.2.1 / 2 – Groundwater Analysis Results 2015

2.2.1 GENERAL CHEMICAL ANALYSIS RESULTS			
Parameter	GW1	GW2	GW3
Chloride (mg/l)	75	130	33
Conductivity (uS/cm)	589	799	284
Nitrate (mg/l)	3.14	0.27	8.48
pH	6.8	6.7	6.4
Total Nitrogen (mg/l)	4.1	<1	11.1
Ammonia (mg/l)	0.11	0.088	0.089

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	1
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
Allyl Chloride	<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
Hexachloroethane	<5	<5	<5
1,2,4-Trichlorobenzene	<0.5	<0.5	<0.5

2.2.2 Dust Monitoring 2015

TABLE 2.2.3 - DUST RESULTS 2015			
Month	D1 (mg/m ² /day)	D2 (mg/m ² /day)	D3 mg/m ² /day)
July	64	141	184
September	30	40	70
November	112	153	194

2.2.3 Biofilter Monitoring 2015

TABLE 2.2.4 MONITORING RESULTS FROM THE BIOFILTER MEDIA 27/03/15	
Parameter	Result
% Moisture	54.2
pH	8.1
Ammonia (mg/kg)	6.2
Total Viable Counts @ 30°C (Solid) cfu/g	9.5 x 10 ⁵

TABLE 2.2.5 MONITORING RESULTS FROM THE BIOFILTER MEDIA 29/09/15	
Parameter	Result
% Moisture	74.9
pH	7.7
Ammonia (mg/kg)	132.47
Total Viable Counts @ 30°C (Solid) cfu/g	640

TABLE 2.2.6 BIOFILTER INLET EMISSION LEVELS 27/03/15		
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 27/03/15	
Parameter	Inlet Concentration (ppm)
Hydrogen Sulphide	<0.2
Ammonia	<5
Mercaptan	<0.5
Amines	Negative

TABLE 2.2.8 BIOFILTER INLET EMISSION LEVELS 29/09/15		
Parameter	Inlet 1 Concentration (ppm)	Inlet 2 Concentration (ppm)
Hydrogen Sulphide	<0.2	<0.2
Ammonia	15	20
Mercaptans	0.5	<0.5
Amines	Negative	Negative

TABLE 2.2.9 BIOFILTER OUTLET EMISSION LEVELS 29/09/15	
Parameter	Inlet Concentration (ppm)
Hydrogen Sulphide	<0.2
Ammonia	<5
Mercaptan	<0.5
Amines	Negative

2.2.4 PM10 Monitoring 2015

TABLE 2.2.10 RESULTS OF PM ₁₀ MONITORING 2015			
Sampling Location	Date	Weight Gain (g)	Concentration ($\mu\text{g}/\text{m}^3$)
Location 1	03/06/15 - 04/06/15	0.003	0.83
Location 1	14/12/15 - 15/12/15	<0.001	< 0.1

2.2.5 Odour Monitoring 2015

TABLE 2.2.11 METEOROLOGICAL CONDITIONS Q2 / Q4		
Parameter	Q2 2015	Q4 2015
Wind speed (km/hr)	14-18	18-22
Wind direction	Southerly	South Westerly

TABLE 2.2.12 ODOUR SAMPLING RESULTS Q2 2015		
Locations	On site observations	Results
OD1 Biofilter	No distinct odour	57 ou _E /m ³
OD2 300m downwind of site	No distinct odour	53 ou _E /m ³

TABLE 2.2.13 CHEMICAL ANALYSIS Q2 2015				
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 2015		
Locations	On site observations	Results
OD 01 At biofilter unit	No Distinct Odour	69 ou _E /m ³
OD 02 300 meters downwind	No Distinct Odour	45 ou _E /m ³

TABLE 2.2.15 CHEMICAL ANALYSIS Q4 2015				
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 2015

TABLE 2.2.16: DAY-TIME NOISE MEASUREMENT RESULTS 15:00 to 17:00

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	49	53	40	80
NSL No2	30	58	55	43	85
NSL No3	30	47	50	39	74

TABLE 2.2.17: EVENING NOISE MEASUREMENT RESULTS 19:00 to 19:45

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	15	35	40	32	46
NSL No2	15	37	44	33	50

2.2.7 Surface Water 2015

Table 2.2.18 - Surface water Results 2015 for SW1

Sample ID	BOD (mg/l)	Suspended Solids (mg/l)	Ammonia (mg/l)
SW1 28/01/15	<5	<20	0.53
SW1 27/10/15	1	<13	0.36

2.2.8 Non-Compliances 2015

Table 2.2.19 Details of Reported Non-compliance 2015	
Date	Non-compliance
25/03/15	On site visit of 25/03/2015 it was noted that the concrete surface of the waste reception yard was cracked in several places and did not appear to be impermeable.
25/03/15	On the site visit of 25/03/2015 it was noted that the above ground contaminated storm water storage tank located in the reception yard was not fitted with a high liquid level alarm. Also the high level liquid alarm fitted to the underground contaminated storm water storage tank adjacent to the on-site oil interceptor was not working on the day of the site visit.
25/03/15	On site visit of 25/03/2015, it was noted the Licensee has not submitted a suitable fire-water risk assessment report to date.

2.3 RESOURCE USAGE

The summary details of energy and water usage at the plant for the period January 2015 to December 2015 is detailed in Table 2.31 below.

Resources	Quantities
Diesel	59715 L
Electricity	154700 KwH
Hydraulic, Transmission & Engine Oil	1800 L
Detergent	20 L
Anti Freeze	100 L

2.4 ENVIRONMENTAL INCIDENTS AND COMPLAINTS

2.4.1 Incidents report for the period January 2015 to December 2015.

Incident	Incident Category	Start date	Finish date	Likely Cause
Exceedance of trigger level for S.S @ SW1	1	5/11/15	6/11/15	Inadequate Infrastructure
Exceedance of trigger level for Ammonia	1	26/11/15	1/12/15	Inadequate Infrastructure

2.4.2 There were no complaints to report for the period January 2015 to December 2015.

2.5 ENVIRONMENTAL SPENDING

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

<u>January 2015 – December 2015</u>	€
EPA Fee	9700
Waste Licence management	27,978
Planning Fees and Expenses	18,864
Total Spend	56,542

2.6 ENVIRONMENTAL TRAINING

Copy of environmental training record included in Attachment 2.

Environmental Management Programme for 2016.

Review of Objectives and Targets for the period January to December 2015

Tables EMP 1.1 to 1.5 reviews the Objectives and Targets set for 2015. 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 2016. A number of the listed Objectives and their subsequent targets are cyclical as the company attempts to achieve continuous environmental improvement.

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MILTOWN COMPOSTING LTD

ENVIRONMENTAL OBJECTIVES AND TARGETS 2016

Item No	OBJECTIVE	TARGET	RESPONSIBLE PERSON
1	Water Management	<ul style="list-style-type: none"> • Maintain checklist for alarms and daily records • Carry out construction of covering for final unroofed yard • Update application for fire water retention facility following RFI in 2015 	D.Murphy
2	Energy Management	<ul style="list-style-type: none"> • Carry out Energy Audit. • Investigate potential for Anaerobic Digestion (AD) Plant. • Study possibility of installing a CHP plant in conjunction with AD plant. 	D.Murphy
3	E.M.S	<ul style="list-style-type: none"> • Maintain EMS documentation. • Update procedures to reflect operational and control change. • Maintain EMP by means of Bi-annual assessment. 	D.Murphy
4	Licence Management	<ul style="list-style-type: none"> • Undertake a desktop Hydrogeological Study. • Assess nuisance control procedures and practices. • Undertake all environmental monitoring as per licence. 	D.Murphy
5	Fugitive Emissions	<ul style="list-style-type: none"> • Assess all flanges and valves used to transport material other than water. • Determine scope of catchment system for any leaks identified in assessment 	D.Murphy

Water Pollution Prevention

EOT 1.1

Objective	Target	Target Date	2015 Review	Person Responsible
Water Management	Maintain checklist for alarms and daily records	Continuous 2015	Complete	Derry Murphy
	Prepare planning application for covering final unroofed yard	Q1 2015	Complete Planning granted on 16/09/15	Derry Murphy
	Prepare application for fire water retention facility	Q1 2015	Complete EPA have requested further information	Derry Murphy

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Energy management

EOT 1.2

Objective	Target	Target Date	2015 Review	Person Responsible
Energy Management	Carry out Energy Audit	Q2 2015	Energy records maintained move audit to 2016	Derry Murphy - OCM
	Investigate potential for Anaerobic Digestion (AD) Plant.	2015	On-Going Site management are continuing to asses potential for AD plant	Derry Murphy
	Study possibility of installing a CHP plant in conjunction with AD plant.	2016	Not due until 2016	Derry Murphy

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Environmental Management System

EOT 1.3

Objective	Target	Target Date	2015 Review	Person Responsible
E.M.S	Maintain EMS documentation.	2015	Complete	Derry Murphy
	Update procedures to reflect operational and control change.	Continuous 2015	Complete	Derry Murphy
	Maintain EMP by means of Bi-annual assessment.	June / Dec 2015	Complete	Derry Murphy

Licence Management

EOT 1.4

Objective	Target	Target Date	2015 Review	Person Responsible
Licence Management	Prepare proposal for and finalise Hydrogeological Study.	2015	Move to 2016	Derry Murphy
	Assess nuisance control procedures and practices.	Continuous 2015	On-Going	Derry Murphy
	Undertake all environmental monitoring as per licence.	2015	Complete	Matrix Env

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Incoming waste / Finished product

EOT 1.5

Objective	Target	Target Date	2015 Review	Person Responsible
Incoming waste / Finished product	Investigate new waste types for inclusion in compost process	2015	No new wastes added in 2015	Derry Murphy
	Research new sustainable outlets for the finished products	2015	Continuously researching new outlets during 2015	Derry Murphy

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Water Pollution Prevention

EOT 2.1

Objective	Target	Target Date	Method
Water Pollution Prevention	Maintain checklist for alarms and daily records	Continuous 2016	Fill in the daily checklist and site alarms
	Carry out construction of covering for final unroofed yard	Q2 /Q3 2016	Construct roof over final uncovered yard
	Update application for fire water retention facility following RFI in 2015	Q1 2016	Send on RFI details to EPA.

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Energy Management

EOT 2.2

Objective	Target	Target Date	Method
Energy Management	Carry out Energy Audit	Q3 2016	Undertake Energy Audit as per EPA requirements.
	Investigate potential for Anaerobic Digestion (AD) Plant.	2016	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.	2016	Further to the review of the AD plant a further review of a CHP plant to be carried out.

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Environmental Management System

EOT 2.3

Objective	Target	Target Date	Method
E.M.S	Maintain EMS documentation.	Q2 2016	Review all EMS procedures
	Update procedures to reflect operational and control change.	Continuous 2016	Continuous review of procedures to reflect any changes which occur in terms of site operations or processes.
	Maintain EMP by means of Bi-annual assessment.	June / Dec 2016	Assess biannually to ensure targets are achieved.

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Licence Management

EOT 2.4

Objective	Target	Target Date	Method
Licence Management	Undertake desk-top Hydrogeological Study.	Q1 2016	Carry out a desktop hydrogeological study.
	Assess nuisance control procedures and practices.	Continuous 2016	Review procedures. Ensure 6 weekly visits of nuisance control company occurs.
	Undertake all environmental monitoring as per licence.	2016	1 x Noise Survey 2 x Odour Assessment 3 x Dust Monitoring 2 x Biofilter Analysis 1 x Bioaerosol Study 2 x PM10 Survey

Fugitive Emissions

EOT 2.5

Objective	Target	Target Date	Method
Fugitive emissions	Assess all flanges and valves used to transport material other than water	Q2 2016	Visually assess all flanges and valves on site used
	Determine scope of catchment system for any leaks identified in assessment	Q4 2016	Base on finding of leak assessment

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Appendix 1

PRTR Scans

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Environmental Protection Agency

| PRTR# : W0270 | Facility Name : Miltown Composting Systems Limited | Filename : Copy of W0270_2015.xls | Return Year : 2015 |

[Guidance to completing the PRTR workbook](#)

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR	2015
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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	
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	5
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) ?	
--	--

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[LINK TO RELEVANT AER RETURNS SUBMISSIONS DATA](#)

[PRTR# : W0270] [Facility Name : Miltown Composting Systems Limited] [Filename : Copy of W0270_2015.xls] [Return Year : 2015]

29/02/2016 15:14

4.1 RELEASES TO AIR

SECTION A.: SECTOR SPECIFIC PRTR POLLUTANTS

No. Annex II	POLLUTANT	Name	METHOD		QUANTITY				
			MIC/E	Method Code	Method Used (Designation or Description)	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
							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

No. Annex II	POLLUTANT	Name	METHOD		QUANTITY				
			MIC/E	Method Code	Method Used (Designation or Description)	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
							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)

Pollutant No	POLLUTANT	Name	METHOD		QUANTITY				
			MIC/E	Method Code	Method Used (Designation or Description)	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
215		Hydrogen sulphide					0.0	0.0	0.0
220		Mercaptans					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

Landfill:	Please enter summary data on the quantities of methane flared and / or utilised	Miltown Composting Systems Limited			
		MIC/E	Method Code	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 engines	0.0			0.0 (Total Utilising Capacity)
	Net methane emission (as reported in Section A above)	0.0			N/A

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. This data should be reported in Section C. 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. This data should be reported in Section C. 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. This data should be reported in Section C.

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE File Name: W0270 | Facility Name: Miltown Composting Systems Limited | Filename: Copy of W0270_2015.xls | Return Year: 2015

Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Hazardous	Licence/Permit No of Nest Donor H200002 Name and Licence/Permit No of Receiver/Disposer	H200002 Name and Licence/Permit No of Nest Donor H200002 Name and Licence/Permit No of Receiver/Disposer	H200002 Name and Licence/Permit No of Nest Donor H200002 Name and Licence/Permit No of Receiver/Disposer	H200002 Name and Licence/Permit No of Nest Donor H200002 Name and Licence/Permit No of Receiver/Disposer	Actual Address of Final Destination (i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY))
					Method Used	Method Used							
Within the Country	19 05 99	16796.36	stabilised wastes other than those mentioned in 19 03 04	R10	M	Weighted	Offsite in Ireland	No	Bord na Mona Dredge landfill, W0203-03	Kilnagh Lower Upper, Carrbury, Co Kildare, Ireland			
Within the Country	19 05 99	4152.02	wastes not otherwise specified	R10	M	Weighted	Offsite in Ireland	No	Monaghan CoCo, Scotch Corner landfill, W020-02	Lettibone Annayella Castleblaney, Co. Monaghan, Ireland			

* Select a row by double-clicking the Description of Waste header, double button

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Appendix 2

Training Records

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Final Version

Task/Work Practice	Specific Training Provided (In-House/Outside Agency/Date)	Name of Employee
Emergency Response Procedures update awareness with staff	In House with Facility Manager DERRY MURPHY Derry Murphy 9/1/2015	Mark Beale Neil Barry Don Moran Eunice Cronin
Compost Facility Management Course	CRE FEB / March 2015	David Smith
Anaerobic Digestion 'practice digester biology'	Aberkay University Dunee (1864) 6-8 Jan 2015	Derry Murphy
Staff Refresher of Licence Requirements SOPs M01 - M13	In House with Facility Manager DERRY MURPHY Derry Murphy 21st & 22nd July 2015	Mark Beale Neil Barry Don Moran Eunice Cronin
Emergency Response Procedures update awareness with all staff	In House with Facility Manager DERRY MURPHY Derry Murphy 28/8/2015	Mark Beale Neil Barry Don Moran Eunice Cronin
Staff Refresher on Licence Requirements SOPs M01 - M13	In House with Facility Manager DERRY MURPHY Derry Murphy 10/11/2015	Mark Beale Neil Barry Don Moran Eunice Cronin