ANNUAL ENVIRONMENTAL REPORT

JANUARY 2010
TO
DECEMBER 2010

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**

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SECTION 1

INTRODUCTION

1.1 INTRODUCTION

The following is the Annual Environmental Report (AER) for the period January 2010 to December 2010 at Miltown Composting Ltd.

The company was granted an EPA Waste Licence No. W0270-01 on the 9th September 2010. This is the 2010 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 east from a high point in the west.

It is occupied by the three main composting buildings-Sheds 1, 2 and 3- 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 re is a series of constructed wetlands in the south west of the site. (See Appendix 1 – Site Layout Drawing)

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 2011. 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. The facility will not normally open on Sundays. Materials are normally 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 (m^2). Maturation is carried out in Sheds 2 and 3, which occupy 2,840 m^2.

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. A Container located at the northern side of the canteen is used to store lubricating/hydraulic oil and the power washer.

The open yards to the east and west of Shed 1, south of Shed 2 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.

Three (3 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 buckets are used on the front end loader to move the materials into and out of the vessels.

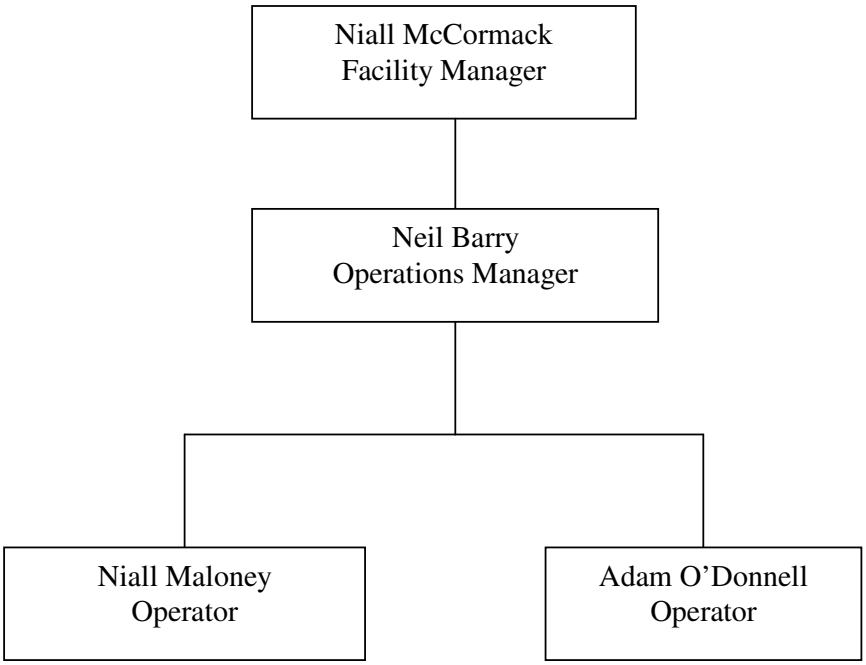
Mesophilic Stage

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 daily 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 a skip pending consignment to off-site disposal/treatment facilities.

1.2.2 Organisational Chart 2010



Section 2

DATA

2.1 WASTE MANAGEMENT

TABLE 2.1.1 – ANNUAL WASTE INTAKE		
Waste Type	EWC Code	2010 Intake
Brown bin waste (kitchen/garden) separately collected from households	20 01 08	12,953.00
Garden and park waste from municipal sources (landscapers, householders etc.)	20 02 01	617.00
Wood waste from municipal sources	20 01 38	657.00
Sludges from treatment of urban waste water	19 08 05	1,554.00

2.2 ENVIRONMENTAL MONITORING

2.2.1 Groundwater Results 2010

Table 2.2.1 / 2 – Groundwater Analysis Results 2010

2.2.1 GENERAL CHEMICAL ANALYSIS RESULTS			
Parameter	**GW1**	**GW2**	**GW3**
Chloride (mg/l)	51	133	82
Conductivity (uS/cm)	614	951	760
Nitrate (mg/l)	3.72	1.39	2.68
pH	6.6	6.4	6.6
Total Nitrogen (mg/l)	3.3	1.50	2.6
Ammonia (mg/l)	<0.02	0.03	0.03

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

TABLE 2.2.2 - VOC ANALYSIS USEPA 524.2 (CONTINUED)			
VOC's (µg/l)	**GW1**	**GW2**	**GW3**
1,1,1,2-Tetrachloroethane	<10	<10	<10
m,p-Xylene	<10	<10	<10
Styrene	<10	<10	<10
Isopropylbenzene	<10	<10	<10
n-propylbenzene	<10	<10	<10
2-Chlorotoluene	<10	<10	<10
4-Chlorotoluene	<10	<10	<10
1,2,4-Trimethylbenzene	<10	<10	<10
4-Isopropyltoluene	<10	<10	<10
1,4-Dichlorobenzene	<10	<10	<10
1,2-Dichlorobenzene	<10	<10	<10
Naphthalene	<10	<10	<10
1,3-Dichloropropane	<10	<10	<10
cis-1,3-Dichloropropene	<10	<10	<10
trans-1,3-Dichloropropene	<10	<10	<10
Dibromochloromethane	<10	<10	<10
Chlorobenzene	<10	<10	<10
Ethyl Benzene	<10	<10	<10
o-Xylene	<10	<10	<10
Bromoform	<10	<10	<10
1,2,3-Trichloropropane	<10	<10	<10
Bromobenzene	<10	<10	<10
Tert-Butylbenzene	<10	<10	<10
Sec-Butylbenzene	<10	<10	<10
1,3,5-Trimethylbenzene	<10	<10	<10
1,2- Dibromo-3-chloropropane	<10	<10	<10
Hexachlorobutadiene	<10	<10	<10
1,2,3-Trichlorobenzene	<10	<10	<10
1,3-Dichlorobenzene	<10	<10	<10
Tetrachloroethene	<10	<10	<10
n-butylbenzene	<10	<10	<10
1,2,4-Trichlorobenzene	<10	<10	<10

2.2.2 Dust Monitoring 2010

TABLE 2.2.3 - DUST RESULTS 2010			
Dust Location	**Sept 2010**	**Nov 2010**	**Dec 2010**
D1	82	88	64
D2	24	52	47
D3	47	47	29

2.2.3 Biofilter Monitoring 2010

TABLE 2.2.4 MONITORING RESULTS FROM THE BIOFILTER 1 MEDIA	
Parameter	Result
% Moisture	71.74
pH	6.5
Ammonia (mg/kg)	533
Total Viable Counts @ 30ºC (Solid) cfu/g	>3.00 x 10^6

TABLE 2.2.5 INLET EMISSION LEVELS OF REQUIRED PARAMETERS		
Parameter	Inlet 1 Concentration (ppm)	Inlet 2 Concentration (ppm)
Hydrogen Sulphide	<0.2	<0.2
Ammonia	15	25
Mercaptans	0.5	<0.5
Amines	Negative	Negative

TABLE 2.2.6 OUTLET EMISSION LEVELS OF REQUIRED PARAMETERS	
Parameter	Inlet Concentration (ppm)
Hydrogen Sulphide	<0.2
Ammonia	<5
Mercaptan	<0.5
Amines	Negative

2.2.4 PM10 Monitoring 2010

TABLE 2.2.7 RESULTS OF PM_{10} MONITORING			
Sampling Location	Date	Weight Gain (g)	Concentration ($\mu g/m^3$)
Location 1	8th to 9th Sept 2010	<0.001	< 0.1

2.2.5 Odour Monitoring 2010

TABLE 2.2.8 METEOROLOGICAL CONDITIONS			
Parameter		**Parameter**	
Weather	Cloudy	Wind speed	12-17 km/hr
Temp	4 °C	Wind Direction	Northerly
General Air Quality	Good	Bar Pressure	1039 mbar

TABLE 2.2.9 ODOUR SAMPLING RESULTS		
Locations	**On site observations**	**Results**
OD 01	No compost odour (Farm odour observed)	182 ou_E/m^3
OD 02	No compost odour	114 ou_E/m^3

TABLE 2.2.10 CHEMICAL ANALYSIS				
Sample	Hydrogen Sulphide	Ammonia	Mercapten	Amines
OD 01	<0.2	<5	<0.5	Negative
OD 02	<0.2	<5	<0.5	Negative

2.2.5 Noise Monitoring 2010

TABLE 2.2.11 DAY-TIME NOISE MEASUREMENT RESULTS					
Location No.	Measurement Period (min)	L_{eq} dB(A)	L_{10} dB(A)	L_{90} dB(A)	$L_{F\ Max}$ dB(A)
NSL	30	44	44	32	75
N2	30	53	55	48	70

TABLE 2.2.12 NIGHT-TIME NOISE MEASUREMENT RESULTS					
Location No.	Measurement Period (min)	L_{eq} dB(A)	L_{10} dB(A)	L_{90} dB(A)	$L_{F\ Max}$ dB(A)
NSL	15	45	45	39	60
N2	15	61	62	56	80

Table 2.2.13 Details of Reported Non-compliance 2010 – Water

Date	Non-compliance	Cause	Corrective Action
No Non-compliances reported in 2009.			

Table 2.2.15 Details of Non-compliance 2010 – Air

Date	Non-Compliance	Failure Details / Cause	Corrective Action
	None to report		

2.3 RESOURCE USAGE

The summary details of energy and water usage at the plant for the period January 2010 to December 2010 is detailed in Table 2.10 below.

Resources	Quantities
Diesel	35,500 litres
Electricity	259,700 Units
Hydraulic, Transmission & Engine Oil	1,400 litres
Detergent	40 litres
Anti Freeze	100 litres

2.4 ENVIRONMENTAL INCIDENTS AND COMPLAINTS

2.4.1 There were no incidents to report for the period September 2010 to Dec 2010.

Incident	Date / Time	Location	Persons Contacted	Corrective Actions

2.4.2 There were no complaints to report for the period September 2010 to Dec 2010.

2.5 ENVIRONMENTAL SPENDING

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

January 2010 – December 2010	**€**
EPA fees	1903
Waste Licence Management	15000
Total Spending	16903

2.6 ENVIRONMNETAL TRAINING

No training carried out between January 2010 and December 2010

Environmental Management Programme for 2010.

Review of Objectives and Targets for the period January to December 2010

Note: The licence is only operational for a three-month period; the review of objectives and targets will commence in the 2011 AER.

Tables EMP 2.1 to 2.4 set out the Objectives and Targets for 2011. 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 2011

Item No	OBJECTIVE	TARGET	RESPONSIBLE PERSON
1	Water Pollution Prevention	• Complete Fire-water Retention Assessment. • Prepare proposal for use of checklist to replace alarms. • Install new sanitary wastewater treatment system.	N. McCormack
2	Energy Management	• Carry out Energy Audit. • Investigate potential for Anaerobic Digestion (AD) Plant. • Study possibility of installing a CHP plant in conjunction with AD plant.	N. McCormack
3	E.M.S	• Maintain EMS documentation. • Update procedures to reflect operational and control change. • Maintain EMP by means of Bi-annual assessment.	N. McCormack
4	Licence Management	• Prepare proposal for and finalise Hydrogeological Study. • Assess nuisance control procedures and practices. • Undertake all environmental monitoring as per licence.	N. McCormack
5	Incoming waste / Finished product	• Investigate new waste types for inclusion in compost process • Research new sustainable outlets for the finished products	N. McCormack

Water Pollution Prevention EOT 2.1

Objective	Target	Target Date	Method
Water Pollution Prevention	Complete Fire-water Retention Assessment.	March 2011	Undertake the FWR assessment as per EPA guidance document
	Prepare proposal for use of checklist to replace alarms.	April 2011	Send a proposal to Agency detailing that leachate levels will be assessed daily as opposed to installing an alarm
	Install new sanitary wastewater treatment system.	March 2011	Install new wastewater treatment plant as per engineers instructions

Energy Management EOT 2.2

Objective	Target	Target Date	Method
Energy Management	Carry out Energy Audit	June 2011	Undertake Energy Audit as per EPA requirements.
	Investigate potential for Anaerobic Digestion (AD) Plant.	2014	Carry out a review of AD plants and the feasibility of installing a plant at the Milltown Compost Site
	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.

Environmental Management System EOT 2.3

Objective	Target	Target Date	Method
E.M.S	Maintain EMS documentation.	2011	Update EMS to reflect change over to waste licence from waste permit
	Update procedures to reflect operational and control change.	March 2011	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 2011	Assess biannually to ensure targets are achieved.

Licence Management EOT 2.4

Objective	Target	Target Date	Method
Licence Management	Prepare proposal for and finalise Hydrogeological Study.	August 2011	Prepare and submit a proposal detailing the methodology for a hydrogeological study.
	Assess nuisance control procedures and practices.	2011	Review procedures. Ensure quarterly visits of nuisance control company occurs.
	Undertake all environmental monitoring as per licence.	2011	1 x Noise Survey 4 x Odour Assessment 12 x Dust Monitoring 2x Biofilter Analysis 1 x Bioaerosol Study 1 x PM10 Survey

Incoming waste / Finished product EOT 2.4

Objective	Target	Target Date	Method
Incoming waste / Finished product	Investigate new waste types for inclusion in compost process	2011	Continue to investigate new waste streams for inclusion in the compost process
	Research new sustainable outlets for the finished products	2011	Prepare marketing campaign to source sustainable outlets for the finished product

Appendix 1

PRTR Scans

Environmental Protection Agency

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.11

REFERENCE YEAR	2010

1. FACILITY IDENTIFICATION

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

Waste or IPPC Classes of Activity

No.	class_name
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).

Address 1	Miltownmore
Address 2	Fethard
Address 3	County Tipperary
Address 4	
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	Craig Mallinson
AER Returns Contact Email Address	craigmallinson@inbox.com
AER Returns Contact Position	Consultant
AER Returns Contact Telephone Number	0872886848
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	0.0
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

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 ?	

4.1 RELEASES TO AIR Link to previous years emissions data

| PRTR# : W0270 | Facility Name : Miltown Composting Systems | Filename : W0270_2010.xls | Return Year : 2010 | 30/03/2011 13:56

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
06	Ammonia (NH3)	M	OTH	Draeger 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

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	Draeger Tube	0.0	0.0	0.0	0.0
220	**Mercaptans**	M	OTH	Draeger 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

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	19 05 01	No	778.0	non-composted fraction of municipal and similar wastes	D1	M	Weighed	Offsite in Ireland	South Tipperary CoCo,W074 03	Garryshane,Donohill,Co. Tipperary,,,Ireland		
Within the Country	19 05 01	No	22.0	non-composted fraction of municipal and similar wastes	D1	M	Weighed	Offsite in Ireland	Laois CoCo - kyltalsha Landfill,W026-03	Clonsoughy,Kyleclonhobert, Co. Laois,,,Ireland		
Within the Country	19 05 01	No	282.0	non-composted fraction of municipal and similar wastes	D1	M	Weighed	Offsite in Ireland	Greenstar Holdings Ltd,W0183-01	Millenium Business Pk,ballycoolin,Dublin 11,,,Ireland		

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