

ANNUAL ENVIRONMENTAL REPORT

REPORTING PERIOD: 1ST January 2017 – 31st December 2017

WASTE LICENCE

REGISTRATION NO: WL106-02

LICENSEE: **BRUSCAR BHEARNA TEORANTA**

LOCATION OF ACTIVITY: CARROWBROWNE,

HEADFORD ROAD,

CO. GALWAY.

ATTENTION: Michelle McKim / Helen Boyce

EPA, REGIONAL INSPECTOR

JOHN MOORE ROAD, CASTLEBAR

CO. MAYO.

PREPARED BY: MR. CAMPBELL FINNIE

(Barna Recycling)

CONTRIBUTIONS FROM: MR. SEAN CURRAN

(Managing Director)

MR.MICHAL RUDZINSKI (Operations Supervisor) MR. JOHNNY CURRAN (Deputy Facility Manager)

P.J. TOBIN CONSULTING ENGINEERS

DECLARATION:

"All the data and information presented in this report has been checked and certified as being accurate. The content of the information is assured to meet licence requirements;"

Campbell Finnie

1.0 Introduction

The following is the Annual Environmental Report (AER) for **Barna Recycling** for the period **1**st **January 2017 to 31st December 2017** for the Waste Transfer / Recycling Facility at Carrowbrowne, Headford Road, Co. Galway only.

This report is in compliance with Condition 10.8 of Waste Licence No. WL106-02, which states:

"The licensee shall submit to the Agency for its agreement not later than January 31st of each year thereafter, an Annual Environmental Report (AER).

The AER shall include as a minimum the information specified in Schedule G: Content of Annual Environmental Report and shall be prepared in accordance with any relevant written guidance issued by the Agency."

This is a consolidated report, which includes details on all aspects of the site's environmental performance for the given period.

It is the policy of Barna Recycling to conduct its business of waste acceptance, waste storage and waste transfer at the waste transfer station in such a manner that associated activities minimise any potential adverse effects on the environment. This commitment is expressed in the company's Environmental Management Policy, presented on the next page.

1.1 Environmental Policy

This policy clearly sets out the overall aims and intentions of the company with respect to the environment. The creation of our Environmental Policy was the first step taken in the development of our EMS System, as required by Condition 2.1, of the Waste Licence. This document has been reviewed but no changes were made since last year's submission of the report.

Brúscar Bhearna Teoranta (BARNA RECYCLING)

Environmental Policy

Brúscar Bhearna Teoranta provides a service to the community in the management of waste activities such as disposal and recovery which is operated under licence 106-2 from the EPA.

Brúscar Bhearna Teoranta regards environmental protection as an essential requirement of its operation. BBT will undertake to conduct its business in a manner which protects the environment of the Customers, Employees and Communities in which it operates. This policy is consistent in its goals with the nature, scale and environmental impacts of our activities, products and services set out in the scope of our EMS system.

Brúscar Bhearna Teoranta will communicate this policy to all employees as part of the induction process for full time and temporary employees and any sub contractors who are engaged to carry out work on site.

Guiding Principles:

BBT is committed to...

- a) continual improvements, prevention of pollution and conservation of natural resources which are attributed to its facility.
- b) complying with relevant environmental legislation, regulations and other requirements pertinent to its facility.
- c) the continual assessment of the aspects and impacts of its activities, functions, products and services.
- d) providing a framework for setting and reviewing the environmental objectives and targets of its environmental action programmes.
- e) providing appropriate training and continual communication on its environmental issues to all its employees.
- f) Making this policy & any all other official records available to the public.

Signed: _		Date:	
_	FACILITY MANAGER		
Signed: _		Date:	
_	MANAGING DIRECTOR		

2. Waste Management at the Facility

2.1 Waste Activities

As required by Schedule G of our waste licence the principal processes of the facility are outlined below:

- 1. The recycling / recovery of various waste streams for the diversion of these wastes away from landfill. The facility enables Barna Recycling and other waste contractors, local authorities to collect waste from domestic/commercial/industrial sectors and deliver it to our facility for sorting / processing and then transfer for disposal or recovery.
- 2. Within the facility heavy plant enables the segregation of the waste, (ie. a manual picking station, ballistic separating machines, magnets, edicurrents, balers, shredders, a pre-shredding machine, loading shovels, forklifts (with forks), forklifts (with clamp attachments), grab machines, screeners, crushers). This machinery is used daily to help separate, move and manage the various waste streams on site.
- 3. The facility also has a fully operational civic amenity site which is open to the public. The civic amenity site is staffed during operational hours and allows the segregation of general waste, mixed recyclables, cardboard, glass, timber, stones, metal, clothes, batteries and all types of white goods and electrical items.
- 4. Currently C&D waste is managed using a screener and a crusher and on occasions a trommel which work in tandem and allow us to recycle the good quality inert materials.
- 5. Our purpose built composting process has been operational since 1st January 2013. We made changes during 2016 to construct tunnels for the initial part of the composting phase and this process has improved both the process itself and our ability to control odour within the process itself. The process is licenced through our existing EPA licence and is also monitored by Department of Agriculture Food and the Marine under licence number COMP-40.

A summary of the current waste activities carried out at our facility are detailed below:

- Landfill Waste the majority of mixed waste loads that come to our facility are able to be segregated in some way either by hand or by machine (grab or loading shovel) to ensure that most of the recyclable material which is in a reasonable condition is recovered. Bulky waste which is removed would be kept in storage in preparation for transfer in our own vehicles to landfill for disposal.
- Recoverable MSW during 2015 we introduced a new process of recovering MSW on site. The facility is approved by the Agency for the production of a mechanically treated EWC 191212 material. In effect this means our general waste is pre-sorted to remove bulky and recyclable material before being shredded and trommelled to remove organic fines and metals and finally is baled / wrapped in preparation for transfer. The material is stored on site until a bulk shipment accumulates (approximately 3000 tonnes) and then it is transferred to Galway Harbour for export in a ship for recovery in European outlets. All transfers out of the Country are done so via the TFS procedure.

- Mixed Recyclables the company have invested in some of the best technology available to process domestic kerbside recyclables which are collected around Connacht. The ballistic separators, magnet, edicurrent and manual picking station allow us to produce segregated recyclable fractions from the original mixed recyclables and send for recycling. In addition, one line is supported by a Titech Optical Sorting Machine which has enhanced our ability to produce good quality recyclables. Materials currently being recycled via the picking station include paper, newspaper, cardboard, plastic bottles, plastic bags, plastic trays, steel and aluminium cans. This process is currently able to process around 6 tonnes of recyclables per hour on one shift.
- Composting Facility we operate a compost process at the site which is in a separate area to the other materials. This process allows for the delivery of segregated collections of catering / food waste, green waste and sludge. This material is mixed and put through a controlled composting system to allow it to break down. The material is controlled by measuring temperature, adding air and monitoring on a daily basis to ensure the process is working. The material is then screened and put in a pasteurisation bunker to reach 70 degrees for one hour before being testing for EColi and Salmonella. Once tests are successfully passed and material has reached the temperatures the material is deemed to be stable it can be shipped as a compost.
- Separately collected recycling the company also encourage recycling from our commercial customers and source segregated collections are available throughout Connacht. These collections result in collection and recycling of cardboard, paper (various grades), metals and plastics (various grades). These materials are checked for quality and once passed are baled immediately and sent for recycling. There is no requirement to process these materials through the picking station.
- Confidential shredding the company also offers customers a confidential shredding service where materials are collected in pre-paid bags or they have the option to deliver to our facility. Materials are shredded and then can be sent off site for recycling (99% of the time it is paper products) but we can shred all types of material in the machine that we have.
- Timber processing timber is processed in its own dedicated area at the site and the material is processed using two machines a waste reducer (pre-shedder) and a timber shredder which shreds the segregated clean timber to a size which can be sent off site for recycling into chipboard, landfill cover or for boiler fuel. Alternatively timber can be sorted and sent off site in bulk trailers to OCR Waste Management in Roscommon where they carry out the shredding.
- Metal recycling the processing of metal products is carried out within the transfer building in a dedicated area. We have a grab machine and baler available specifically used for baling this material into a form that can be easily sold as scrap to the UK or Irish metal markets. Alternatively material is stored in a specific area and transferred loose to a local recycler. Some sorting of metal on higher grade materials is also carried out where possible.
- Civic Amenity Site the site is staffed during operational hours and allows the segregation of general waste, mixed recyclables, cardboard, glass, timber, stones, metal, clothes, batteries and all types of white goods and electrical items.

General recycling – Barna Recycling are always reviewing markets around the world to try
and offer as many recycling avenues as possible to our customers and in addition to the
items listed above are currently collecting, segregating and sending the following waste
types off site for recycling:

end of life tyres, glass, batteries, industrial plastics, agricultural plastics, plasterboard (gypsum), street sweepings and RDF.

This section of the report was intended to give the reader a summary of the material types and the processing procedures used by Barna Recycling during the reporting period. Any additional information required is available by contacting the company directly.

2.2 Waste Activities Licensed

The waste activities carried out above are done so within the boundaries of our EPA Waste Licence WL106-2 and the Waste Management Act 1996. The following list is a summary of the waste types and activities for which we are licenced:

Licensed waste disposal activities, in accordance with the Third Schedule of the Waste Management Act, 1996.

- Class 11. Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
- Class 12. Repackaging prior to submissions to any activity referred to in a preceding paragraph of this Schedule.
- Class 13. Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned was produced.

Licensed waste recovery activities, in accordance with the Fourth Schedule of the Waste Management Act, 1996.

- Class 2. Recycling or reclamation of organic substances, which are not used as solvents (including composting and other biological transformation processors).
- Class 3 Recycling or reclamation of metals and metal compounds.
- Class 4. Recycling or reclamation of other inorganic materials.
- Class 12. Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule:
- Class 13. Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced:

2.3 Composition and Quantity of Waste Received at the Facility

The Waste Transfer Station at Barna Recycling is limited not only in the materials that can be accepted at the facility but also by the quantities which can be accepted. The following is a summary of the tonnages of different waste streams permitted to be accepted during this reporting period:

Waste Categories and Quantities acceptable at Transfer Station

WASTE TYPE	MAXIMUM TONNES PER ANNUM
Household	55,500 option A or 55,500 option B
Commercial	17,500 option A or 17,500 option B
Construction & Demolition	30,000 option A or 50,000 option B
Industrial Non Haz Solids	23,000 option A or 23,000 option B
Biodegradable Waste	40,000 option A or 20,000 option B
TOTAL	166,000 tonnes

These tonnages are set and documented in our EPA licence WL106-2 (schedule A).

2.4 Waste In / Out Results for this year and past years (2002 – 2017)

This section of the report outlines the quantities and composition of the waste types accepted and removed from the facility for either disposal or recovery / recycling.

As **required** by the Agency and written in our EPA Licence results for the current reporting year (2016) AND ALL PREVIOUS years are included therefore results for reporting periods 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016 and the current reporting period of 2017 are outlined below.

This year's figures have been included with EWC codes as per the requirement in Schedule G of our waste licence WL106-2 and are in the new reporting format spreadsheet as published by the Agency.

Waste In / Out Results for 2002 Period

Table 2.4.1: Waste Incoming during period 1st January 2002 – 31st December 2002

The following table outlines the waste that was received on site at the Barna Recycling facility during the previous reporting period:-

Waste Type	Tonnes	%
Green / Organic / Timber	480.84	1.3%
Cardboard	700.39	1.8%
Recyclables	2595.08	6.6%
Commercial	10,245.00	26.1%
Household / Domestic	10,557.39	26.9%
Construction and Demolition	14,616.47	37.3%
Total	39,195.17	

Figure 2.1 illustrates the percentage breakdown of materials received on site for each of the main categories detailed above.

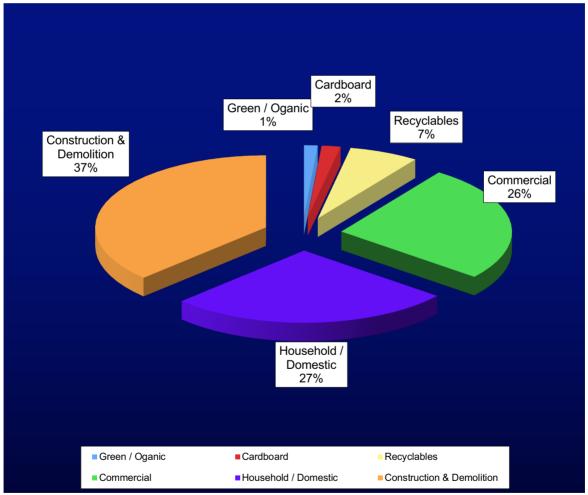


Figure 2.4.2: Percentage Breakdown of Waste Received on site from 1st January – 31st December 2002

Table 2.4.3: Total Wastes Outgoing 1st January 2002 – 31st December 2002

Waste Type	Tonnes	% of Waste In
Materials Recovery (Plastic)	37.17	0.1%
Galway Metal	639.5	1.6%
Railuck (Mixed Plastics)	662.91	1.7%
Fibre Recycling (Newspapers etc)	677.98	1.7%
Fibre Recycling (Cardboard)	919.50	2.4%
Finsa Products (Timber)	1,092.50	2.8%
Recovered Fill	6859.40	17.5%
Ballinasloe Landfill	28,232.69	72%
Total	39,121.65	

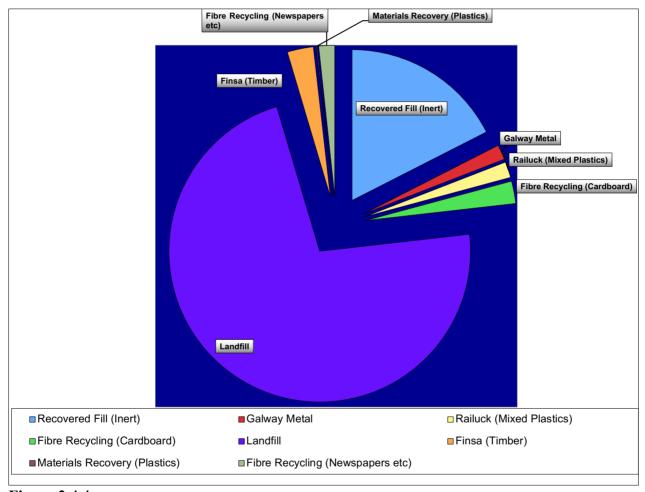


Figure 2.4.4: Percentage Breakdown of Waste outgoing from 1st January 2002 to 31st December 2002

Waste In 2003

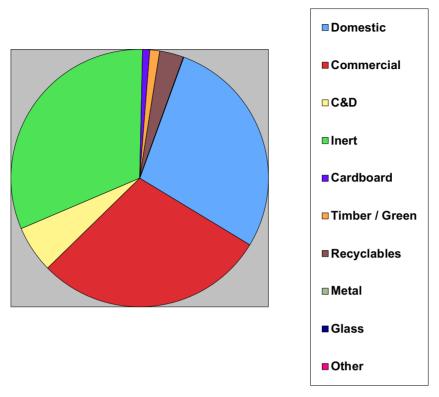


Figure 2.4.5: Breakdown of Waste Received on site from 1st January – 31st December 2003

WASTE TYPE	WASTE IN (tonnes per annum)
Domestic	20015.92
Commercial	20663.18
C & D	4199.2
Inert	22612.4
Cardboard	643.2
Timber / Green	878.55
Recyclables	2154.1
Metal	15
Glass	3.54
Others (public weighing)	8.02
TOTAL	71193.08

Table 2.4.3: Total Wastes Incoming 1st January 2003 – 31st December 2003

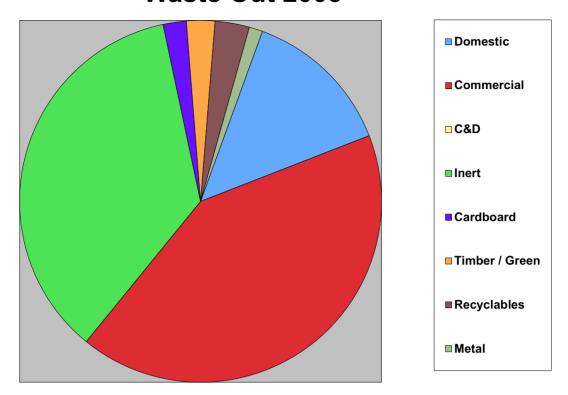


Figure 2.4.6: Breakdown of Waste going off site for Recovery or Disposal from 1st January – 31st December 2003

WASTE TYPE	WASTE OUT (tonnes per annum)
Domestic	8545.18
Commercial	26393.02
Inert	22602.2
Cardboard	1308.24
Timber / Green	1601.04
Recyclables	1937.22
Metal	761.87
TOTAL	63,418.72

Table 2.4.7: Total Wastes Outgoing 1st January 2003 – 31st December 2003

WASTE TYPE	RECYCLING	% OF TOTAL
	(tonnes per annum)	RECYCLING
Inert	22602.2	80.1%
Cardboard	1308.24	4.6%
Timber / Green	1601.04	5.7%
Recyclables	1937.22	6.9%
Metal	761.87	2.7%
TOTAL	28,210.57	39% of total waste in was
		recycled for 2003

Table 2.4.8: Recycling waste out details for 1st January – 31st December 2003

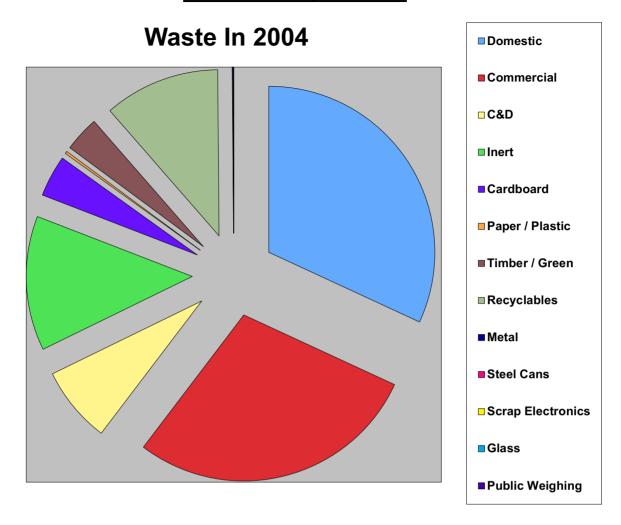


Figure 2.4.9:
Breakdown of Waste Received on site from 1st January – 31st December 2004

WASTE TYPE	WASTE IN (tonnes per annum)
Domestic	19,796.62
Commercial	17,691.68
C & D	4575.1
Inert	8115.82
Cardboard	2506.52
Paper / Plastic	143.74
Scrap Electronics	1.20
Timber / Green	2111.85
Mixed Kerbside Recyclables	6990.80
Metal	45.00
Steel Cans	5.23
Glass	15.76
Public Weighing	15.88
TOTAL	62,045.20

Table 2.4.10: Total Wastes Incoming 1st January 2004 – 31st December 2004

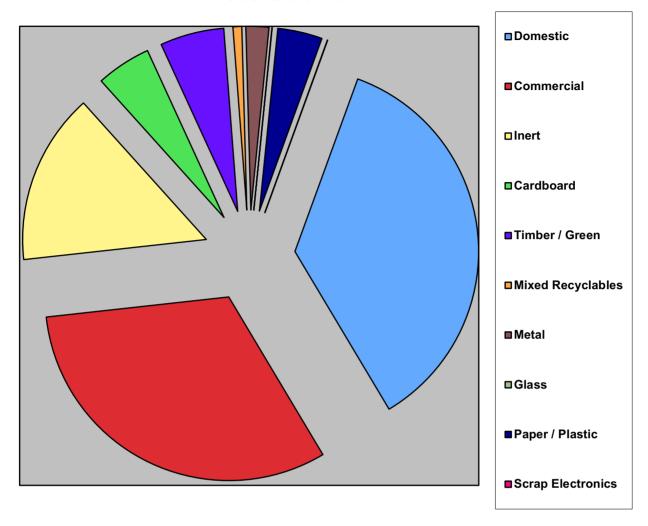


Figure 2.4.11: Breakdown of Waste going off site for Recovery or Disposal from 1st January – 31st December 2003

WASTE TYPE	WASTE OUT (tonnes per annum)
Domestic	19,299.33
Commercial	17,114.50
Inert	8115.82
Cardboard	2591.73
Paper / Plastic	2113.6
Timber / Green	3028.51
Recyclables	416.23
Scrap Electronics	14.69
Glass	9.98
Metal	1085.37
TOTAL	53,789.76

Table 2.4.12: Total Wastes Outgoing 1st January 2003 – 31st December 2004

All outlets for the materials going out have been approved in advance by the EPA. Our outlets for the waste types above are listed below:

- 1) Metal goes to Galway Metal
- 2) Timber / Green waste goes to Finsa Forest Products or Weyerhaeuser Europe
- 3) Paper / Cardboard / Steel Cans / Aluminium / Plastic / Scrap plastic all goes to AWS (Alternative Waste Solutions)
- 4) Glass goes to Eclipse Recycling
- 5) Scrap Electronics go to Cara Environmental
- 6) Inert material goes into our permitted site within out facility
- 7) All Domestic and Commercial waste goes to the Poolboy landfill site in Ballinasloe
- 8) In addition to the above Barna Recycling also have Batteries collected by Returnbatt and send tyres as required to Crumb Rubber or to Crossmore Transport

Barna Recycling requests and keeps on file recycling certificates from all the companies that take material from the premises for recycling / disposal / recovery.

WASTE TYPE	RECYCLING	% OF TOTAL
	(tonnes per annum)	RECYCLING
Inert	8115.82	46.73%
Cardboard	2591.73	14.9%
Timber / Green	3028.51	17.4%
Recyclables	416.23	2.4%
Paper / Plastic	2113.6	12.17%
Scrap Electronics	14.69	0.1%
Metal	1085.37	6.3%
TOTAL	17,365.95	28% of total waste in was recycled for 2004

Table 2.4.13: Recycling waste out details for 1st January 2004 – 31st December 2004

Waste In 2005

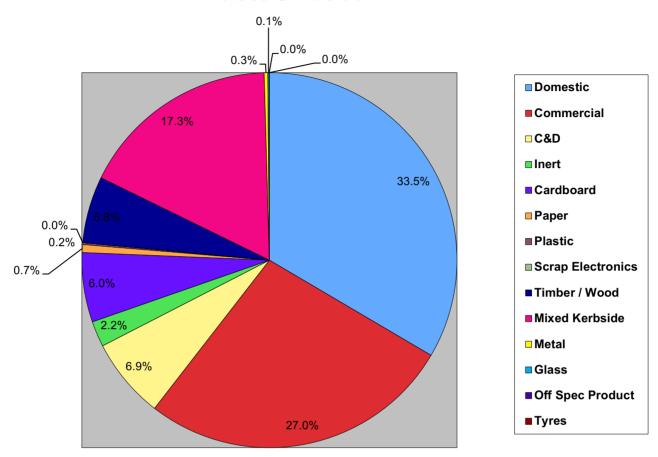


Figure 2.4.14: Breakdown of Waste Received on site from 1st January 2005 – 31st December 2005

WASTE TYPE	WASTE IN (tonnes per annum)
EWC 200301 Domestic	22134.78
EWC 200100 Commercial	17874.97
EWC 170100 C & D	4594.86
EWC 200202 Inert	1463.6
EWC 200101 Cardboard	3962.02
EWC 200101 Paper	449.78
EWC 200103 Plastic	100.52
EWC 160201 Scrap Electronics	0.76
EWC 200138 Timber / Wood / Green	3808.28
EWC 150101 Mixed Kerbside Recyclables	11443.15
EWC 170407 Metal	205.12
EWC 170202 Glass	78.98
EWC 160304 Off Spec Product	1.17
EWC 160103 Tyres	12.95
TOTAL	66130.94

Table 2.4.15: Total Wastes Incoming 1st January 2005 – 31st December 2005

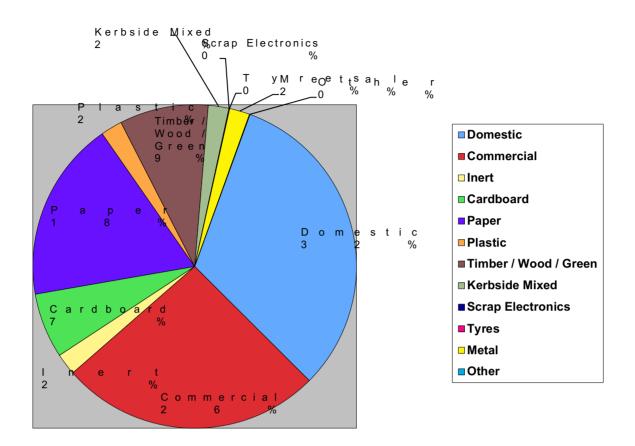


Figure 2.5.0: Breakdown of Waste going off site for Recovery or Disposal from 1^{st} January $2005-31^{st}$ December 2005

WASTE TYPE	WASTE OUT (tonnes per annum)
EWC 200301 Domestic	21593.80
EWC 200100 Commercial	17667.66
EWC 200202 Inert	1463.6
EWC 200101 Cardboard	4408.69
EWC 200101 Paper	12221.53
EWC 200103 Plastic	1457.49
EWC 200138 Timber / Wood / Green	6003.09
EWC 150101 Recyclables	1391.82
EWC 160201 Scrap Electronics	14.96
EWC 160103 Tyres	40.32
EWC 170407 Metal	1366.35
Other	36.7
TOTAL	67666.01

Table 2.5.1: Total Wastes Outgoing 1st January 2005 – 31st December 200

2.5.2 Summary of Recycling Outlets used in 2005

Barna Recycling are committed to finding new recycling markets in Ireland, Europe and Worldwide to ensure materials produced from the picking station and the other areas in our waste transfer station are sent to the best possible recycling outlets.

All outlets for the materials going out have been approved in advance by the EPA.

A summary of the recycling outlets used for 2005 is included below:

- 1) Metal products are sent to S.Norton Metal Merchants in Liverpool. Alternative outlets include Midland Scrap Metal (Portlaoise) and Galway Metal.
- 2) Timber / Wood / Green waste goes to Finsa Forest Products or Weyerhaeuser Europe
- 3) Paper / Cardboard / Steel Cans / Aluminium / Plastic (various grades) all go via AWS (Alternative Waste Solutions) for recycling
- 4) Paper / Cardboard are also sent to CWS (Complete Waste Solutions) for recycling
- 5) Paper / Cardboard are also sent to Highlander International Recycling for recycling
- 6) Paper / Cardboard are also sent to Parry & Evans for recycling
- 7) Scrap Electronics go to Cara Environmental
- 8) Inert material goes into our permitted site within out facility
- 9) Tyres are sent to Crossmore Transport in Limerick for recycling
- 10) All non recoverable waste goes to the Poolboy Landfill Site in Ballinasloe

Barna Recycling requests and keeps on file recycling certificates from all the companies that take material from the premises for recycling / disposal / recovery.

WASTE TYPE	RECYCLING (tonnes per	% OF TOTAL RECYCLING
	annum)	
EWC 200202 Inert	1463.6	5%
EWC 200101 Cardboard	4408.69	15%
EWC 200101 Paper	12221.53	43%
EWC 200103 Plastic	1457.49	5%
EWC 200138 Timber / Wood / Green	6003.09	21%
EWC 150101 Recyclables	1391.82	5%
EWC 160201 Scrap Electronics	14.96	Less than 1%
EWC 160103 Tyres	40.32	Less than 1%
EWC 170407 Metal	1366.35	5%
Other	36.7	Less than 1%
TOTAL	28404.55	43% of total waste in was recycled for 2005

Table 2.5.3: Breakdown of recycling waste out details for 1st January – 31st December 2005

WASTE IN

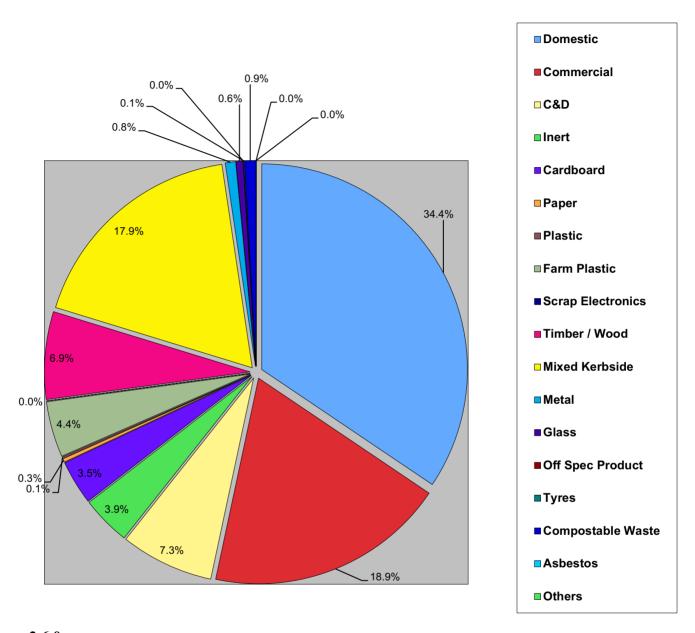


Figure 2.6.0: Breakdown of Waste Received on site from 1st January 2006 – 31st December 2006

WASTE TYPE	WASTE IN (tonnes per annum)
EWC 200301 Domestic	29328.22
EWC 200100 Commercial	16095.29
EWC 170100 C & D	6234.14
EWC 200202 Inert	3295.65
EWC 200101 Cardboard	2980.02
EWC 200101 Paper	239.55
EWC 200103 Plastic	121.71
EWC 200104 Farm Plastic	3729.12
EWC 160201 Scrap Electronics	6.89
EWC 200138 Timber / Wood / Green	5862.05
EWC 150101 Mixed Kerbside Recyclables	15244.71
EWC 170407 Metal	698.92
EWC 170202 Glass	470.45
EWC 160304 Off Spec Product	15.28
EWC 200108 Food Waste	753.51
EWC 200201 Garden & Park Waste	
EWC 200304 Sludge	
Compostable materials	
EWC 160103 Tyres	59.78
EWC 170605 Asbestos	3.10
Others (Public weighing)	8.45
TOTAL	85146.84

Table 2.6.1: Total Wastes Incoming 1st January 2006 – 31st December 2006

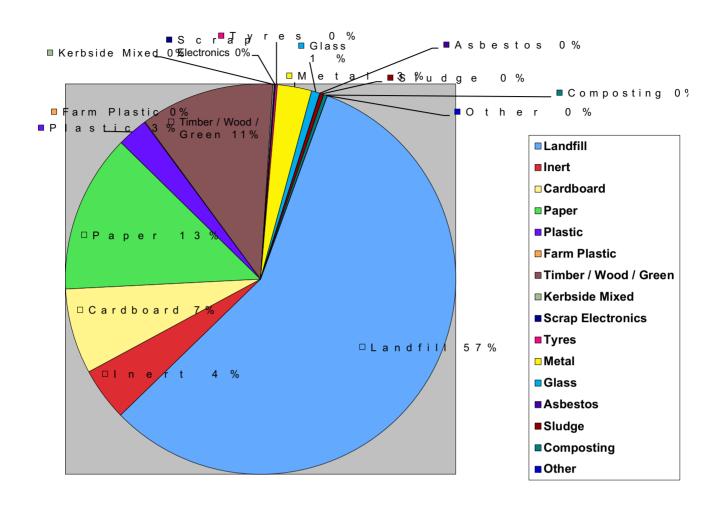


Figure 2.6.2: Breakdown of Waste going off site for Recovery or Disposal from 1st January 2006 – 31st December 2006

WASTE TYPE	WASTE OUT (tonnes per annum)
EWC 191212 Mechanically treated mixed	45754.84
waste for landfill (Commercial / Domestic)	
EWC 200202 Inert	3518.12
EWC 200101 Cardboard	5660.60
EWC 200101 Paper	10516.62
EWC 200103 Plastic	2023.17
EWC 200104 Farm Plastic	47.12
EWC 200138 Timber / Wood / Green	8875.78
EWC 150101 Recyclables	90.35
EWC 160201 Scrap Electronics	78.44
EWC 160103 Tyres	130.64
EWC 170407 Metal	2267.10
EWC 200102 Glass	559.56
EWC 170605 Asbestos	9.04
EWC 200304 Sludge	258.74
EWC200108 Composting	240.89
Others	1.62
TOTAL	80,032.63

Table 2.6.3: Total Wastes Outgoing 1st January 2006 – 31st December 2006

Breakdown of the recycling elements for 2006:

WASTE TYPE	RECYCLING (tonnes per	% OF TOTAL RECYCLING
	annum)	RECTEDING
EWC 200202 Inert	3518.12	10%
EWC 200101 Cardboard	5660.60	17%
EWC 200101 Paper	10516.62	31%
EWC 200103 Plastic	2023.17	6%
EWC 200138 Timber / Wood / Green	8875.78	26%
EWC 150101 Recyclables	90.35	Less than 1%
EWC 160201 Scrap Electronics	78.44	Less than 1%
EWC 160103 Tyres	130.64	Less than 1%
EWC 170407 Metal	2267.10	7%
EWC200108 Composting	240.89	Less than 1%
EWC 200102 Glass	559.56	2%
EWC 200104 Farm Plastic	47.12	Less than 1%
TOTAL	34008.39 tonnes	40% of total waste in was
		recycled for 2006

Table 2.6.4: Breakdown of recycling waste out details for 1st January – 31st December 2006

WASTE IN

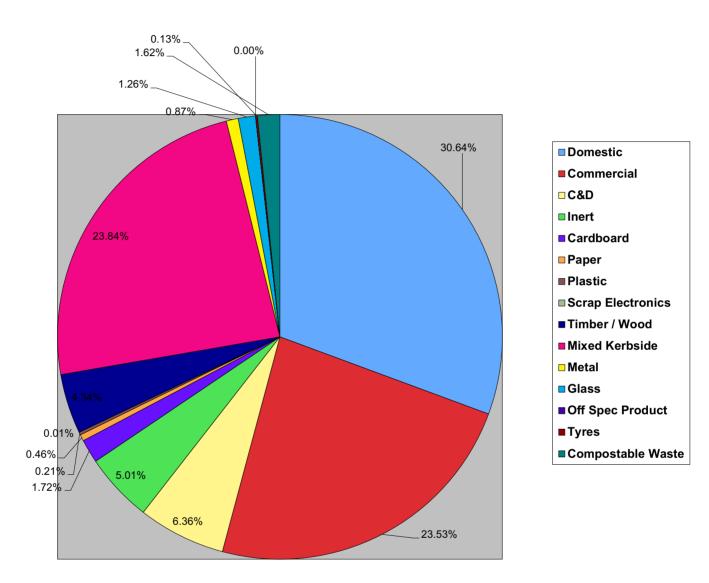


Figure 2.7.0: Breakdown of Waste Received on site from 1st January 2007 – 31st December 2007

Waste in for 2007: Table of quantities by waste type

WASTE TYPE	WASTE IN (tonnes per annum)
EWC 200301 Domestic	28840.92
EWC 200100 Commercial	22150.64
EWC 170100 C & D	5988.48
EWC 200202 Inert	4720.19
EWC 200101 Cardboard	1621.48
EWC 200101 Paper	436.96
EWC 200103 Plastic	193.75
EWC 160201 Scrap Electronics	5.46
EWC 200138 Timber / Wood / Green	4082.74
EWC 150101 Mixed Kerbside Recyclables	22440.51
EWC 170407 Metal	817.07
EWC 170202 Glass	1181.63
EWC 160304 Off Spec Product	4.60
EWC 200108 Food Waste	1525.88
EWC 200201 Garden & Park Waste	
EWC 200304 Sludge	
Compostable materials	
EWC 160103 Tyres	120.96
TOTAL	94,131.27

Table 2.7.1: Total Wastes Incoming 1st January 2007 – 31st December 2007

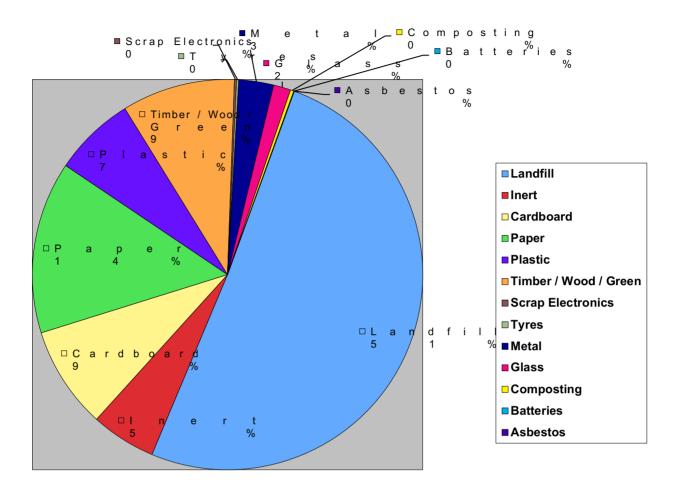


Figure 2.7.2: Breakdown of Waste going off site for Recovery or Disposal from 1^{st} January $2007 - 31^{st}$ December 2007

Waste out for 2007: Table of quantities by waste type

WASTE TYPE	WASTE OUT (tonnes per annum)
EWC 191212 Mechanically treated mixed	44558.56
waste for landfill (Commercial / Domestic)	
EWC 200202 Inert	4720.19
EWC 200101 Cardboard	7431.38
EWC 200101 Paper	12512.83
EWC 200103 Plastic	5927.02
EWC 200138 Timber / Wood / Green	8230.50
EWC 160201 Scrap Electronics	154.38
EWC 160103 Tyres	151.76
EWC 170407 Metal	2534.82
EWC 200102 Glass	1253.18
EWC 160601 Batteries	33.34
EWC 170605 Asbestos	3.38
EWC200108 or EWC 200304	1443.65
Compostable Material	
TOTAL	88954.99

Table 2.7.3: Total Wastes Outgoing 1st January 2007 – 31st December 2007

The following table shows the % breakdown of the recyclable materials sent off site for recovery / recycling during 2007:

WASTE TYPE (Recyclable materials only)	RECYCLING (tonnes per	% OF TOTAL RECYCLING
(Recyclable materials only)	annum)	RECICLING
EWC 200202 Inert	4720.19	10%
EWC 200101 Cardboard	7431.38	17%
EWC 200101 Paper	12512.83	28%
EWC 200103 Plastic	5927.02	13%
EWC 200138 Timber / Wood / Green	8230.50	19%
EWC 160201 Scrap Electronics	154.38	Less than 1%
EWC 160103 Tyres	151.76	Less than 1%
EWC 170407 Metal	2534.82	6%
EWC 200102 Glass	1253.18	3%
EWC 160601 Batteries	33.34	Less than 1%
EWC200108 or EWC 200304	1443.65	3%
Compostable Material		
TOTAL	44,393.05	47% of total waste in was recycled for 2007

Table 2.7.4: Breakdown of recycling waste out details for 1st January 2007 – 31st December 2007

WASTE IN (2008)

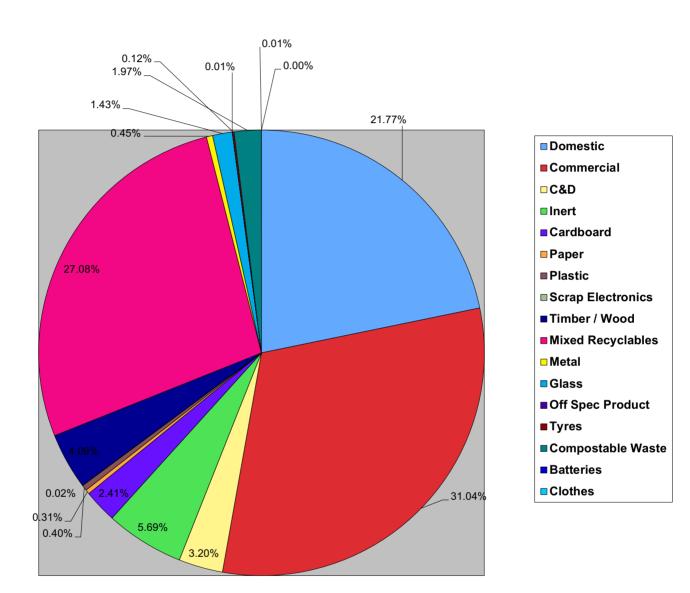


Figure 2.8.0: Breakdown of Waste Received on site from 1st January 2008 – 31st December 2008

Waste in for 2008: Table of quantities by waste type

WASTE TYPE	WASTE IN (tonnes per annum)
EWC 200301 Domestic	18539.17
EWC 200100 Commercial	26433.11
EWC 170100 C & D	2729.37
EWC 200202 Inert	4846.37
EWC 200101 Cardboard	2055.49
EWC 200101 Paper	267.90
EWC 200103 Plastic	344.76
EWC 160201 Scrap Electronics	16.00
EWC 200138 Timber / Wood / Green	3481.57
EWC 150101 Mixed Kerbside Recyclables	23064.37
EWC 170407 Metal	382.35
EWC 170202 Glass	1216.29
EWC 160304 Off Spec Product	2.56
EWC 200108 Food Waste	1674.44
EWC 200201 Garden & Park Waste	
EWC 200304 Sludge	
Compostable materials	
EWC 200110 Clothes	0.10
EWC 160601 Batteries	6.20
EWC 160103 Tyres	100.18
TOTAL	85,160.23 TONNES

Table 2.8.1: Total Wastes Incoming 1st January 2008 – 31st December 2008

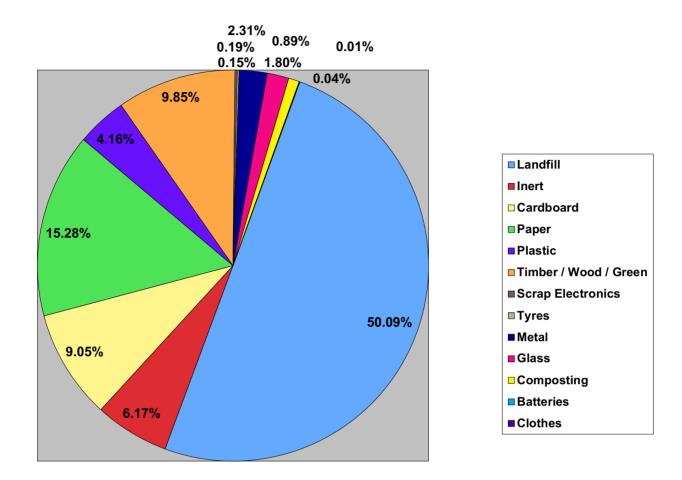


Figure 2.8.2: Breakdown of Waste going off site for Recovery or Disposal from 1^{st} January $2008-31^{st}$ December 2008

Waste out for 2008: Table of quantities by waste type

WASTE TYPE	WASTE OUT (tonnes per annum)
EWC 191212 Mechanically treated mixed	39362.81
waste for landfill (Commercial / Domestic)	
EWC 200202 Inert	4846.37
EWC 200101 Cardboard	7107.66
EWC 200101 Paper	12008.22
EWC 200103 Plastic	3272.20
EWC 200138 Timber / Wood / Green	7743.46
EWC 160201 Scrap Electronics	150.60
EWC 160103 Tyres	114.99
EWC 170407 Metal	1816.43
EWC 200102 Glass	1411.75
EWC 160601 Batteries	10.82
EWC 200110 Clothes	35.26
EWC 170802 Gypsum / Plasterboard	264.70
EWC200108 or EWC 200304	699.78
Compostable Material	
TOTAL	78845.05

Table 2.8.3: Total Wastes Outgoing 1st January 2008 – 31st December 2008

The following table shows the % breakdown of the recyclable materials sent off site for recovery / recycling during 2008:

WASTE TYPE	RECYCLING	% OF TOTAL
(Recyclable materials only)	(tonnes per	RECYCLING
	annum)	
EWC 200202 Inert	4846.37	12%
EWC 200101 Cardboard	7107.66	18%
EWC 200101 Paper	12008.22	30%
EWC 200103 Plastic	3272.20	8%
EWC 200138 Timber / Wood / Green	7743.46	20%
EWC 160201 Scrap Electronics	150.60	Less than 1%
EWC 160103 Tyres	114.99	Less than 1%
EWC 170407 Metal	1816.43	5%
EWC 200102 Glass	1411.75	4%
EWC 160601 Batteries	10.82	Less than 1%
EWC 200110 Clothes	35.26	Less than 1%
EWC 170802 Gypsum / Plasterboard	264.70	Less than 1%
EWC200108 or EWC 200304	699.78	2%
Compostable Material		
TOTAL	39,482.24	46% of total waste in was recycled for 2008

Table 2.8.4: Breakdown of recycling waste out details for 1^{st} January $2008 - 31^{st}$ December 2008

WASTE IN (2009)

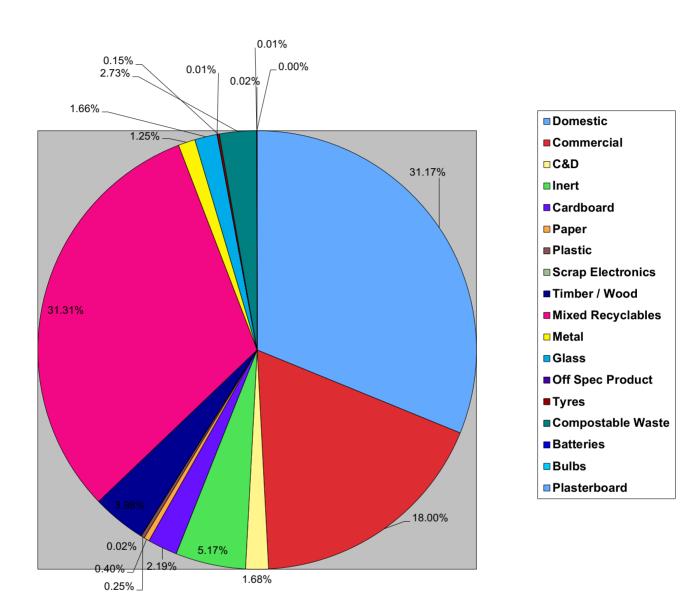


Figure 2.9.0: Breakdown of Waste Received on site from 1st January 2009 – 31st December 2009

Waste in for 2009: Table of quantities by waste type

WASTE TYPE	WASTE IN (tonnes per annum)
EWC 200301 Domestic	22356.82
EWC 200100 Commercial	12905.46
EWC 170100 C & D	1202.76
EWC 200202 Inert	3708.53
EWC 200101 Cardboard	1570.58
EWC 200101 Paper	289.72
EWC 200103 Plastic	180.09
EWC 160201 Scrap Electronics	14.88
EWC 200138 Timber / Wood / Green	2852.59
EWC 150101 Mixed Kerbside Recyclables	22451.12
EWC 170407 Metal	893.56
EWC 170202 Glass	1189.34
EWC 160304 Off Spec Product	6.70
EWC 200108 Food Waste	1960.91
EWC 200201 Garden & Park Waste	
EWC 200304 Sludge	
Compostable materials	
EWC 170802 Plasterboard / Gypsum	16.14
EWC 160601 Batteries	5.52
EWC 200121 Fluorescent Tubes	0.1
EWC 160103 Tyres	110.12
TOTAL	71,714.94 TONNES

Table 2.9.1: Total Wastes Incoming 1st January 2009 – 31st December 2009

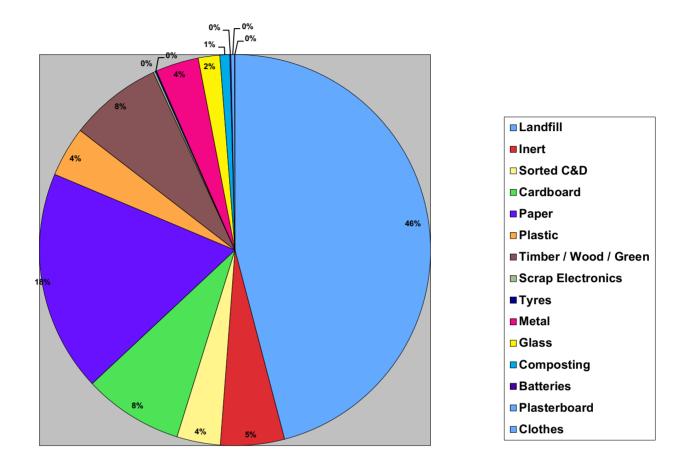


Figure 2.9.2: Breakdown of Waste going off site for Recovery or Disposal from 1^{st} January $2009 - 31^{st}$ December 2009

Waste out for 2009: Table of quantities by waste type

WASTE TYPE	WASTE OUT (tonnes per annum)
EWC 191212 Mechanically treated mixed	32188.23
waste for landfill (Commercial / Domestic)	
EWC 200202 Inert	6232.78
EWC 200101 Cardboard	5783.24
EWC 200101 Paper	12849.64
EWC 200103 Plastic	2906.97
EWC 200138 Timber / Wood / Green	5385.64
EWC 160201 Scrap Electronics	121.48
EWC 160103 Tyres	78.14
EWC 170407 Metal	2503.62
EWC 200102 Glass	1245.48
EWC 160601 Batteries	62.82
EWC 200110 Clothes	20.84
EWC 170802 Gypsum / Plasterboard	213.04
EWC200108 or EWC 200304	575.88
Compostable Material	
TOTAL	70167.80 tonnes

Table 2.9.3: Total Wastes Outgoing 1st January 2009 – 31st December 2009

The following table shows the % breakdown of the recyclable materials sent off site for recovery / recycling during 2009:

WASTE TYPE	RECYCLING	% OF TOTAL
(Recyclable materials only)	(tonnes per	RECYCLING
	annum)	
EWC 200202 Inert	6232.78	16%
EWC 200101 Cardboard	5783.24	15%
EWC 200101 Paper	12849.64	34%
EWC 200103 Plastic	2906.97	8%
EWC 200138 Timber / Wood / Green	5385.64	14%
EWC 160201 Scrap Electronics	121.48	Less than 1%
EWC 160103 Tyres	78.14	Less than 1%
EWC 170407 Metal	2496.44	7%
EWC 200102 Glass	1245.48	3%
EWC 160601 Batteries	62.82	Less than 1%
EWC 200110 Clothes	20.84	Less than 1%
EWC 170802 Gypsum / Plasterboard	213.04	Less than 1%
EWC200108 or EWC 200304	575.88	2%
Compostable Material		
TOTAL	37,972.39	53% of total waste in was recycled for 2009

Table 2.9.4: Breakdown of recycling waste out details for 1^{st} January $2009 - 31^{st}$ December 2009

WASTE IN (2010)

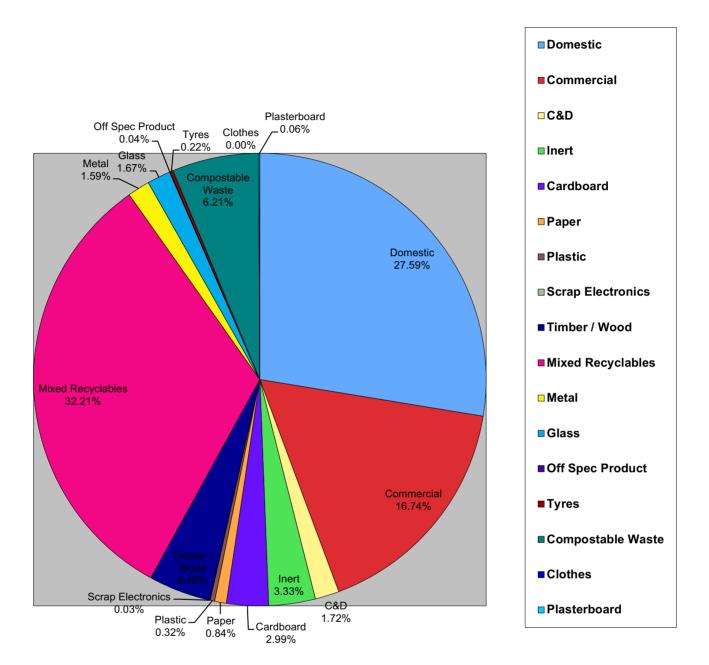


Figure 2.10.0: Breakdown of Waste Received on site from 1st January 2010 – 31st December 2010

Waste in for 2010: Table of quantities by waste type

WASTE TYPE	WASTE IN (tonnes per annum)
EWC 200301 Domestic	19,140.78
EWC 200301 Commercial	11,609.68
EWC 170904 Mixed C & D	1,191.54
EWC 170107 Inert	2,310.09
EWC 150101 Cardboard	2,076.90
EWC 200101 Paper	580.54
EWC 200103 Plastic	220.34
EWC 160201 Scrap Electronics	19.98
EWC 200138 Timber / Wood / Green	3083.83
EWC 200199 Mixed Kerbside Recyclables	22342.70
EWC 170407 Metal	1101.82
EWC 200102 Glass	1160.39
EWC 160304 Off Spec Product	24.66
EWC 200108 Food Waste	4,309.15
EWC 200201 Garden & Park Waste	
EWC 200304 Sludge	
Compostable materials	
EWC 170802 Plasterboard / Gypsum	42.42
EWC 160103 Tyres	152.54
EWC 200110 Clothes	0.28
TOTAL	69,367.64 TONNES

Table 2.10.1: Total Wastes Incoming 1st January 2010 – 31st December 2010

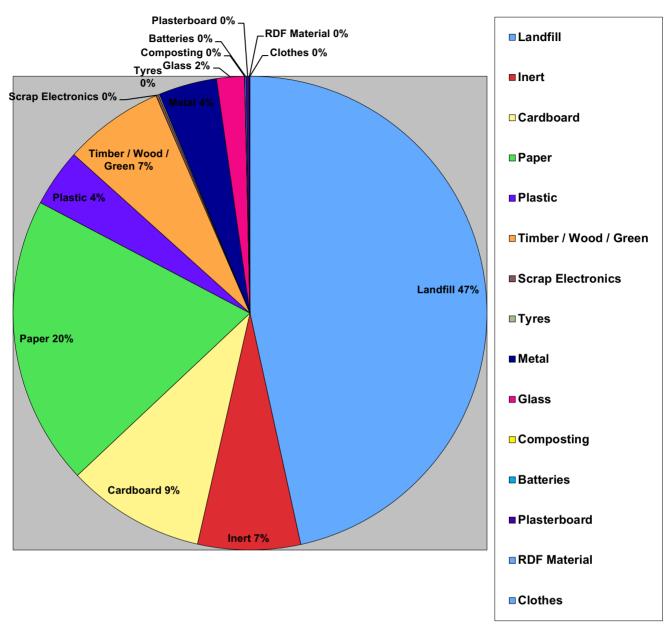


Figure 2.10.2: Breakdown of Waste going off site for Recovery or Disposal from 1^{st} January $2010-31^{st}$ December 2010

Waste out for 2010: Table of quantities by waste type:-

WASTE TYPE	WASTE OUT
	(tonnes per annum)
EWC 191212 Mechanically treated mixed waste for landfill	28,115.82
EWC 200202 Inert	4,227.79
EWC 191201 Cardboard	5,692.87
EWC 191201 Paper	11,916.14
EWC 191204 Plastic	2,382.34
EWC 191207 Timber / Wood / Green	4,131.03
EWC 160201 Scrap Electronics	100.92
EWC 160103 Tyres	51.78
EWC 191203 Metal	2402.76
EWC 191205 Glass	1145.88
EWC 160601 Batteries	56.36
EWC 191208 Clothes	8.18
EWC 170802 Gypsum / Plasterboard	122.44
EWC 200108 or EWC 200304 Compostable Material	7.50
EWC 191210 Refuse Derived Fuel	25.34
TOTAL	60,387.15 TONNES

Table 2.10.3: Total Wastes Outgoing 1st January 2010 – 31st December 2010

RECYCLING SUMMARY FOR 2010

The following table shows the % breakdown of the recyclable materials sent off site for recovery / recycling during 2010. This table only shows the RECYCLABLE / RECOVERABLE material types and lists the total tonnage recycled during 2010 and the % split that each waste type provides towards the total recycling figure:-

WASTE TYPE	RECYCLING	% OF TOTAL
(Recyclable materials only)	(tonnes per annum)	RECYCLING
EWC 200202 Inert	4,227.79	13%
EWC 191201 Cardboard	5,692.87	18%
EWC 191201 Paper	11,592.04	36%
EWC 191204 Plastic	2,706.44	8%
EWC 191207 Timber / Wood / Green	4,131.03	13%
EWC 160201 Scrap Electronics	100.92	Less than 1%
EWC 160103 Tyres	51.78	Less than 1%
EWC 191203 Metal	2,402.76	7%
EWC 191205 Glass	1,145.88	4%
EWC 160601 Batteries	56.36	Less than 1%
EWC 191208 Clothes	8.18	Less than 1%
EWC 170802 Gypsum / Plasterboard	122.44	Less than 1%
EWC 200108 or EWC 200304	7.50	Less than 1%
Compostable Material		
EWC 191210 Refuse Derived Fuel	25.34	Less than 1%
TOTAL	32,271.33	47% of total waste in
		was recycled for 2010

Table 2.10.4: Breakdown of recycling waste out for 1st January 2010 – 31st December 2010

WASTE IN (2011)

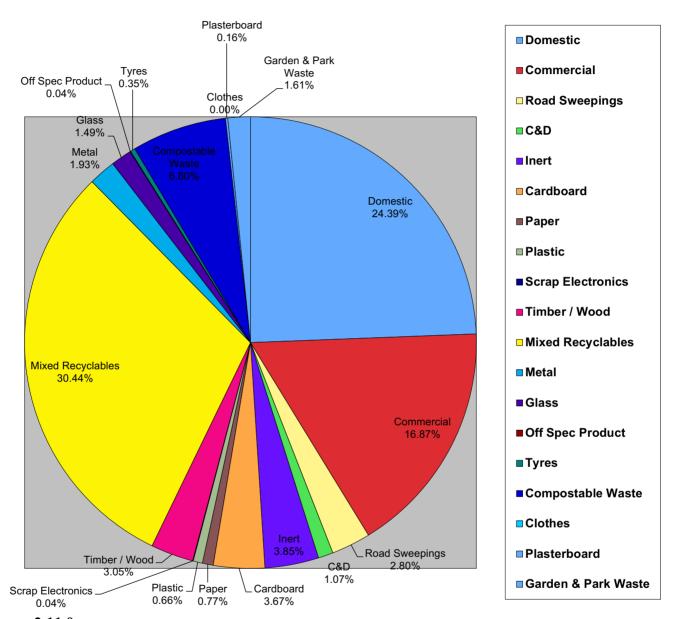


Figure 2.11.0: Breakdown of Waste Received on site from 1st January 2011 – 31st December 2011

Waste in for 2011: Table of quantities by waste type

WASTE TYPE	WASTE IN (tonnes per annum)
EWC 200301 Domestic	18335.45
EWC 200301 Commercial	12681.69
EWC 200303 Street / Road Sweepings	2108.55
EWC 170904 Mixed C & D	804.43
EWC 170107 Inert	2894.68
EWC 200201 Garden & Park Waste	1207.05
EWC 150101 Cardboard	2755.96
EWC 200101 Paper	582.18
EWC 200103 Plastic	498.60
EWC 160201 Scrap Electronics / WEEE	33.54
EWC 200138 Timber / Wood / Green	2295.07
EWC 200199 Mixed Kerbside Recyclables	22887.50
EWC 170407 Metal	1454.38
EWC 200102 Glass	1121.93
EWC 160304 Off Spec Product	30.12
EWC 200108 Food Waste	5109.98
EWC 200304 Sludge	
Compostable materials	
EWC 170802 Plasterboard / Gypsum	121.58
EWC 160103 Tyres	260.45
EWC 200110 Clothes	0.10
TOTAL	75,183.24 TONNES

Table 2.11.1: Total Wastes Incoming 1st January 2011 – 31st December 2011

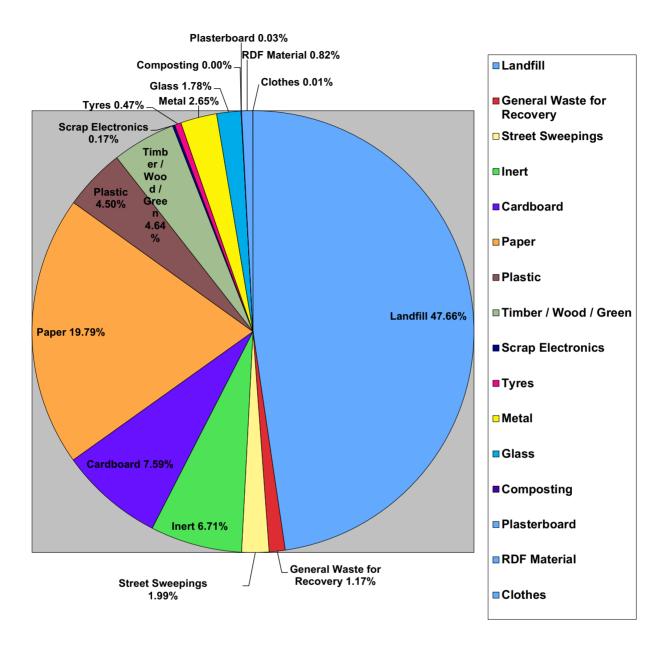


Figure 2.11.2: Breakdown of Waste going off site for Recovery or Disposal from 1^{st} January $2011-31^{st}$ December 2011

WASTE TYPE	WASTE OUT
	(tonnes per annum)
EWC 191212 Mechanically treated mixed waste for landfill	32,094.62
EWC 191212 Mechanically treated mixed waste for	788.14
recovery (send to Indaver Meath Facility)	
EWC 200303 Road / Street Sweepings	1340.58
EWC 200202 Inert	4520.28
EWC 191201 Cardboard	5111.17
EWC 191201 Paper	13328.88
EWC 191204 Plastic	3031.88
EWC 191207 Timber / Wood / Green	3125.35
EWC 160201 Scrap Electronics	114.46
EWC 160103 Tyres	318.36
EWC 191203 Metal	1784.65
EWC 191205 Glass	1199.26
EWC 191208 Clothes	5.92
EWC 170802 Gypsum / Plasterboard	19.50
EWC 200108 or EWC 200304 Compostable Material	0.58
EWC 191210 Refuse Derived Fuel	551.32
EWC 200199 Mixed Recycling	108.06
TOTAL	67,443.01 TONNES

Table 2.11.3: Total Wastes Outgoing 1^{st} January $2011-31^{st}$ December 2011

RECYCLING SUMMARY FOR 2011

The following table shows the % breakdown of the recyclable materials sent off site for recovery / recycling during 2011. This table only shows the RECYCLABLE / RECOVERABLE material types and lists the total tonnage recycled during 2011 and the % split that each waste type provides towards the total recycling figure:-

WASTE TYPE	RECYCLING	% OF TOTAL
(Recyclable materials only)	(tonnes per annum)	RECYCLING
EWC 200202 Inert	4520.28	13%
EWC 191201 Cardboard	5111.17	15%
EWC 191201 Paper	13328.88	39%
EWC 191204 Plastic	3031.88	9%
EWC 191207 Timber / Wood / Green	3125.35	9%
EWC 160201 Scrap Electronics	114.46	Less than 1%
EWC 160103 Tyres	318.36	1%
EWC 191203 Metal	1784.65	5%
EWC 191205 Glass	1199.26	4%
EWC 191208 Clothes	5.92	Less than 1%
EWC 170802 Gypsum / Plasterboard	19.50	Less than 1%
EWC 200108 or EWC 200304	0.58	Less than 1%
Compostable Material		
EWC 191210 Refuse Derived Fuel	551.32	2%
EWC 191212 Mechanically treated	788.14	2%
mixed waste for recovery (send to		
Indaver Meath Facility)		
EWC 200199 Mixed Recycling	108.06	Less than 1%
TOTAL	34007.81	45% of total waste in
		was recycled for 2011

Table 2.11.4: Breakdown of recycling waste out for 1st January 2011 – 31st December 2011

WASTE IN (2012)

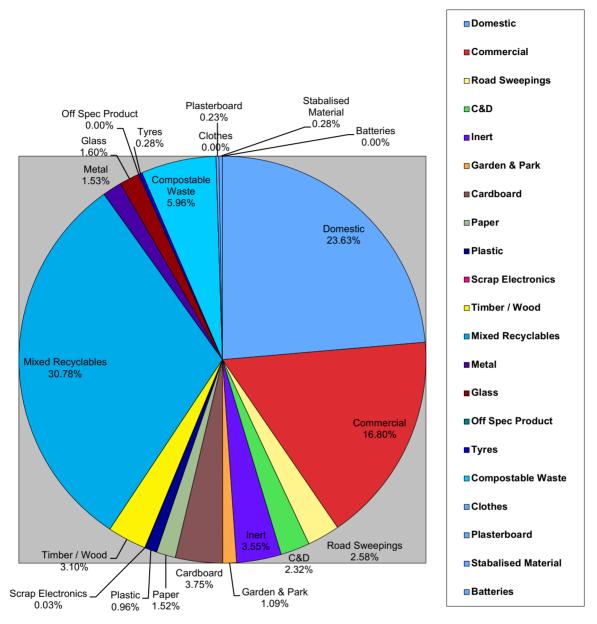


Figure 2.12.0: Breakdown of Waste Received on site from 1st January 2012 – 31st December 2012

Waste in for 2012: Table of quantities by waste type

WASTE TYPE	WASTE IN (tonnes per annum)
EWC 200301 Domestic	16973.75
EWC 200301 Commercial	12065.34
EWC 200303 Street / Road Sweepings	1855.76
EWC 170904 Mixed C & D	1667.91
EWC 170107 Inert	2550.56
EWC 200201 Garden & Park Waste	782.98
EWC 150101 Cardboard	2689.79
EWC 200101 Paper	1088.49
EWC 200103 Plastic	689.21
EWC 160201 Scrap Electronics / WEEE	22.90
EWC 200138 Timber / Wood	2224.68
EWC 200199 Mixed Kerbside Recyclables	22106.40
EWC 170407 Metal	1100.56
EWC 200102 Glass	1151.56
EWC 160304 Off Spec Product	1.46
EWC 200108 Food Waste	3943.42
EWC 200304 Sludge	339.36
Compostable materials	
EWC 170802 Plasterboard / Gypsum	161.68
EWC 160103 Tyres	202.67
EWC 200110 Clothes	0.08
EWC 190305 Stabilised Material	198.06
EWC 160604 Alkaline Batteries	1.56
TOTAL	71818.18 TONNES

Table 2.12.1: Total Wastes Incoming 1st January 2012 – 31st December 2012

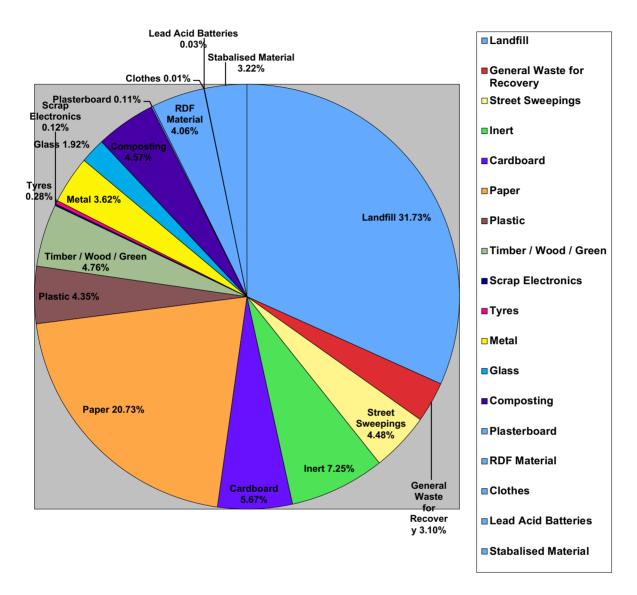


Figure 2.12.2: Breakdown of Waste going off site for Recovery or Disposal from 1st January 2012 – 31st December 2012

Waste out for 2012: Table of quantities by waste type:-

WASTE TYPE	WASTE OUT
	(tonnes per annum)
EWC 191212 Mechanically treated mixed waste for landfill	21779.16
EWC 191212 Mechanically treated mixed waste for recovery	2126.82
(sent to Indaver Meath Facility)	
EWC 200303 Road / Street Sweepings / Stabalised Material	3075.32
EWC 200202 Inert	4979.22
EWC 191201 Cardboard	3891.44
EWC 191201 Paper	14231.94
EWC 191204 Plastic	2982.70
EWC 191207 Timber / Wood / Green	3267.66
EWC 160201 Scrap Electronics	83.50
EWC 160103 Tyres	190.78
EWC 191203 Metal	2487.72
EWC 191205 Glass	1316.74
EWC 191208 Clothes	5.24
EWC 170802 Gypsum / Plasterboard	76.3
EWC 200108 or EWC 200304 Compostable Material	3138.16
EWC 191210 Refuse Derived Fuel	2787.04
EWC 160601* Lead Acid Batteries	18.74
EWC Stabilised Material	2207.52
TOTAL	68,646.00 TONNES

Table 2.12.3: Total Wastes Outgoing 1st January 2012 – 31st December 2012

RECYCLING SUMMARY FOR 2012

The following table shows the % breakdown of the recyclable materials sent off site for recovery / recycling during 2012. This table only shows the RECYCLABLE / RECOVERABLE material types and lists the total tonnage recycled during 2012 and the % split that each waste type provides towards the total recycling figure:-

WASTE TYPE	RECYCLING	% OF TOTAL
(Recyclable materials only)	(tonnes per annum)	RECYCLING
EWC 200202 Inert	4979.22	8%
EWC 191201 Cardboard	3891.44	9%
EWC 191201 Paper	14231.94	34%
EWC 191204 Plastic	2982.70	7%
EWC 191207 Timber / Wood / Green	3267.66	8%
EWC 160201 Scrap Electronics	83.50	Less than 1%
EWC 160103 Tyres	190.78	Less than 1%
EWC 191203 Metal	2487.72	6%
EWC 191205 Glass	1316.74	3%
EWC 191208 Clothes	5.24	Less than 1%
EWC 170802 Gypsum / Plasterboard	76.3	Less than 1%
EWC 200108 or EWC 200304	3138.16	7%
Compostable Material		
EWC 191210 Refuse Derived Fuel	2787.04	7%
EWC 191212 Mechanically treated	2126.82	5%
mixed waste for recovery (send to		
Indaver Meath Facility)		
EWC 100601* Lead Acid Batteries	18.74	Less than 1%
EWC 190305 Stabilised Material	2207.52	5%
TOTAL	43,791.52	61% of total waste in was recycled or recycled for 2012

Table 2.12.4: Breakdown of recycling waste out for 1st January 2012 – 31st December 2012

WASTE IN (2013)

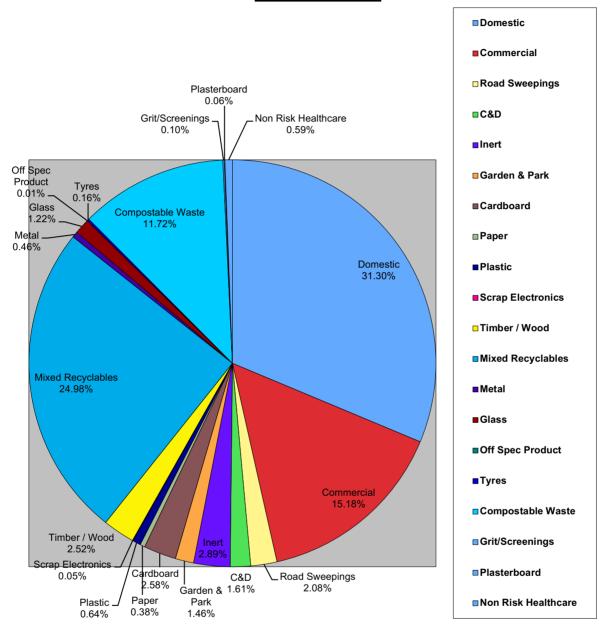


Figure 2.13.0: Breakdown of Waste Received on site from 1st January 2013 – 31st December 2013

Waste in for 2013: Table of quantities by waste type

WASTE TYPE	WASTE IN (tonnes per annum)
EWC 200301 Domestic	27986.41
EWC 200301 Commercial	13573.78
EWC 200303 Street / Road Sweepings	1857.32
EWC 170904 Mixed C & D	1443.15
EWC 170107 Inert	2580.85
EWC 200201 Garden & Park Waste	1302.56
EWC 150101 Cardboard	2305.97
EWC 200101 Paper	343.16
EWC 200139 Plastic	576.08
EWC 160201 Scrap Electronics / WEEE	45.66
EWC 200138 Timber / Wood	2250.91
EWC 200199 Mixed Kerbside Recyclables	22329.26
EWC 170407 Metal	409.81
EWC 200102 Glass	1093.22
EWC 160304 Off Spec Product	10
EWC 200108 Food Waste	10224.03
EWC 200304 Sludge	250.24
Compostable materials	
EWC 170802 Plasterboard / Gypsum	54.22
EWC 160103 Tyres	147.03
EWC 190801 Grit/screenings	92.68
EWC 180104 Non risk healthcare waste	526.53
TOTAL	89402.87TONNES

Table 2.13.1: Total Wastes Incoming 1st January 2013 – 31st December 2013

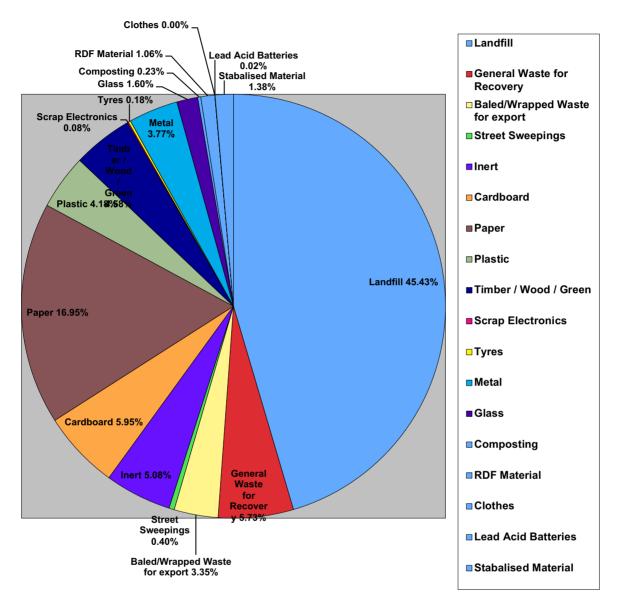


Figure 2.13.2: Breakdown of Waste going off site for Recovery or Disposal from 1^{st} January $2013 - 31^{st}$ December 2013

Waste out for 2013: Table of quantities by waste type:-

WASTE TYPE	WASTE OUT
	(tonnes per annum)
EWC 200301 Mechanically treated mixed waste for landfill	34302.85
EWC 191212 Mechanically treated mixed waste for recovery	4324
(sent to Indaver Meath Facility)	
EWC 200301 Baled/Wrapped waste for export & recovery	2532.58
EWC 200303 Road / Street Sweepings	305.6
EWC 200202 Inert	3834.37
EWC 191201 Cardboard	4494.68
EWC 191201 Paper	12796.88
EWC 191204 Plastics	3156.18
EWC 191207 Timber / Wood / Green	3460.42
EWC 160201 Scrap Electronics	62.92
EWC 160103 Tyres	136.88
EWC 191203 Metal	2844.99
EWC 191205 Glass	1208.76
EWC 191208 Clothes	3.18
EWC 200108 or EWC 200304 Compostable Material	176.56
EWC 191210 Refuse Derived Fuel	803.2
EWC 160601* Lead Acid Batteries	13.24
EWC Stabilised Material (Compost)	1045.22
TOTAL	75502.51 TONNES

Table 2.13.3: Total Wastes Outgoing 1st January 2013 – 31st December 2013

RECYCLING SUMMARY FOR 2013

The following table shows the % breakdown of the recyclable materials sent off site for recovery / recycling during 2013. This table only shows the RECYCLABLE / RECOVERABLE material types and lists the total tonnage recycled during 2012 and the % split that each waste type provides towards the total recycling figure:-

WASTE TYPE	RECYCLING	% OF TOTAL
(Recyclable materials only)	(tonnes per annum)	RECYCLING
EWC 200202 Inert	3834.37	9%
EWC 191201 Cardboard	4494.68	11%
EWC 191201 Paper	12796.88	31%
EWC 191204 Plastic	3156.18	8%
EWC 191207 Timber / Wood / Green	3460.42	8%
EWC 160201 Scrap Electronics	62.92	Less than 1%
EWC 160103 Tyres	136.88	Less than 1%
EWC 191203 Metal	2844.99	7%
EWC 191205 Glass	1208.76	3%
EWC 191208 Clothes	3.18	Less than 1%
EWC 200301 Baled/Wrapped waste	2532.58	6%
for export for recovery		
EWC 200108 or EWC 200304	176.56	Less than 1%
Compostable Material		
EWC 191210 Refuse Derived Fuel	803.2	2%
EWC 191212 Mechanically treated	4324	11%
mixed waste for recovery (send to		
Indaver Meath Facility)		
EWC 100601* Lead Acid Batteries	13.24	Less than 1%
EWC 190305 Stabilised Material	1045.22	3%
TOTAL	40894.06	54% of total waste in
		was sent for recycling
		or recovery for 2013

Table 2.13.4: Breakdown of recycling waste out for 1st January 2013 – 31st December 2013

WASTE IN (2014)

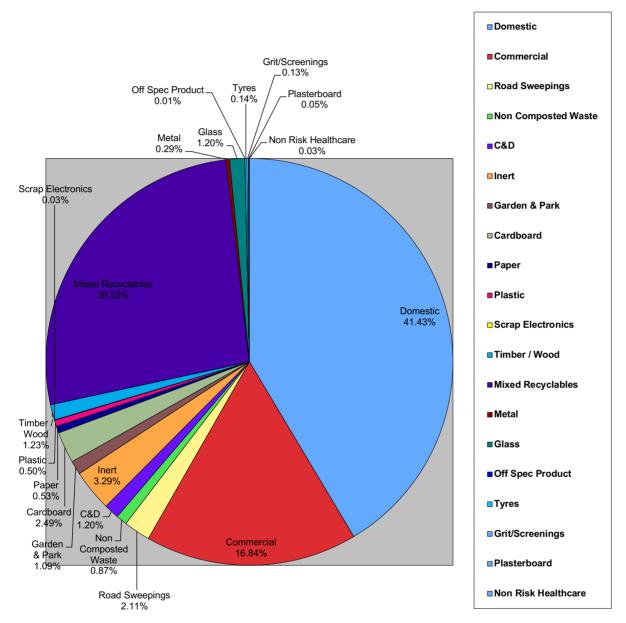


Figure 2.14.0:
Breakdown of Waste Received on site from 1st January 2014 – 31st December 2014

Waste in for 2014: Table of quantities by waste type

WASTE TYPE	WASTE IN
	(tonnes per annum)
EWC 200301 Domestic	36866.37
EWC 200301 Commercial	14988.20
EWC 200303 Street / Road Sweepings	1874.14
EWC 190501 Non Composted Fraction of Municipal Wastes	778.46
EWC 170904 Mixed C & D	1068.71
EWC 170107 Inert	2928.46
EWC 200201 Garden & Park Waste	971.86
EWC 150101 Cardboard	2213.77
EWC 200101 Paper	473.98
EWC 200139 Plastic	447.21
EWC 160201 Scrap Electronics / WEEE	28.40
EWC 200138 Timber / Wood	1090.60
EWC 200199 Mixed Kerbside Recyclables	23606.58
EWC 170407 Metal	256.80
EWC 200102 Glass	1068.46
EWC 160304 Off Spec Product	11.44
EWC 170802 Plasterboard / Gypsum	41.12
EWC 160103 Tyres	128.24
EWC 190801 Grit/screenings	111.88
EWC 180104 Non risk healthcare waste	28.96
EWC 200108 Food Waste / Grease (not compostable)	2.96
EWC 200303 Septic Tank Sludge	298.16
EWC 200134 Household Batteries	0.86
EWC 200110 Clothes / Textiles	0.04
TOTAL	89,285.66 tonnes

Table 2.14.1: Total Wastes Incoming 1st January 2014 – 31st December 2014

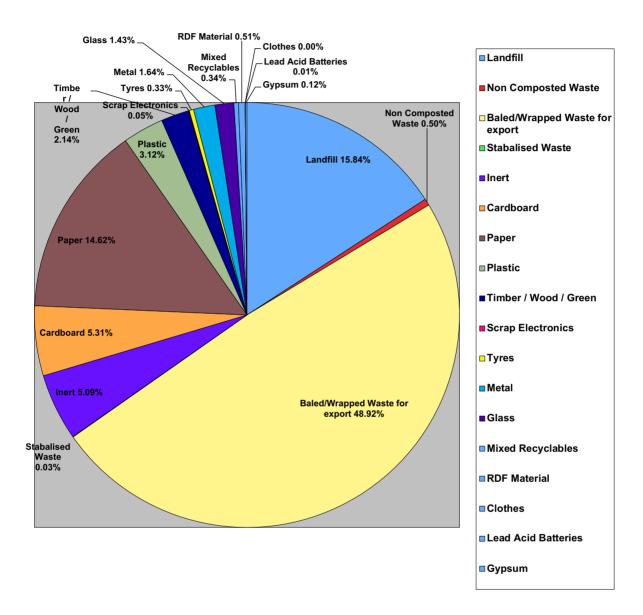


Figure 2.14.2: Breakdown of Waste going off site for Recovery or Disposal from 1^{st} January $2014-31^{st}$ December 2014

Waste out for 2014: Table of quantities by waste type:-

WASTE TYPE	WASTE OUT
	(tonnes per annum)
EWC 200301 Pre-sorted waste for landfill	13,462.33
EWC 200301 Mechanically treated mixed waste for recovery	41,586.38
(Baled / Wrapped MSW)	
EWC 190501 Non Composted Municipal Waste	428.94
(compost out throws)	
EWC 190305 Stabilised Waste for Disposal	25.32
EWC 200202 Inert	4325.98
EWC 191201 Cardboard	4515.44
EWC 191201 Paper	12,428.92
EWC 191204 Plastics	2648.06
EWC 191207 Timber / Wood / Green	1821.42
EWC 160201 Scrap Electronics	40.82
EWC 160103 Tyres	277.28
EWC 191203 Metal	1391.58
EWC 191205 Glass	1217.30
EWC 191208 Clothes	1.24
EWC 190801 Grit/screenings	285.82
EWC 200303 Septic Tank Sludge	
EWC 170802 Gypsum / Plasterboard	103.28
EWC 200301 Mixed Recyclables (unsorted)	289.40
EWC 191210 Refuse Derived Fuel	433.82
EWC 160601* Lead Acid Batteries	8.14
TOTAL	85,291.47 tonnes

Table 2.14.3: Total Wastes Outgoing 1st January 2014 – 31st December 2014

RECYCLING / RECOVERY SUMMARY FOR 2014

The following table shows the % breakdown of the recyclable materials sent off site for recovery / recycling during 2013. This table only shows the RECYCLABLE / RECOVERABLE material types and lists the total tonnage recycled during 2012 and the % split that each waste type provides towards the total recycling figure:-

WASTE TYPE	RECYCLING	% OF TOTAL
(Recyclable materials only)	(tonnes per annum)	RECYCLING
EWC 200301 Mechanically treated	41,586.38	58%
mixed waste for recovery (Baled /		
Wrapped MSW)		
EWC 200202 Inert	4325.98	6%
EWC 191201 Cardboard	4515.44	6%
EWC 191201 Paper	12,428.92	17%
EWC 191204 Plastics	2648.06	4%
EWC 191207 Timber / Wood / Green	1821.42	3%
EWC 160201 Scrap Electronics	40.82	0%
EWC 160103 Tyres	277.28	0%
EWC 191203 Metal	1391.58	2%
EWC 191205 Glass	1217.30	2%
EWC 191208 Clothes	1.24	0%
EWC 190801 Grit/screenings	285.82	0%
EWC 200303 Septic Tank Sludge		
EWC 170802 Gypsum / Plasterboard	103.28	0%
EWC 200301 Mixed Recyclables	289.40	0%
(unsorted)		
EWC 191210 Refuse Derived Fuel	433.82	1%
EWC 160601* Lead Acid Batteries	8.14	0%
TOTAL	71,271.60	80% of total waste in
		was sent for recycling
		or recovery for 2014

Table 2.14.4: Breakdown of recycling waste out for 1st January 2014 – 31st December 2014

WASTE IN (2015)

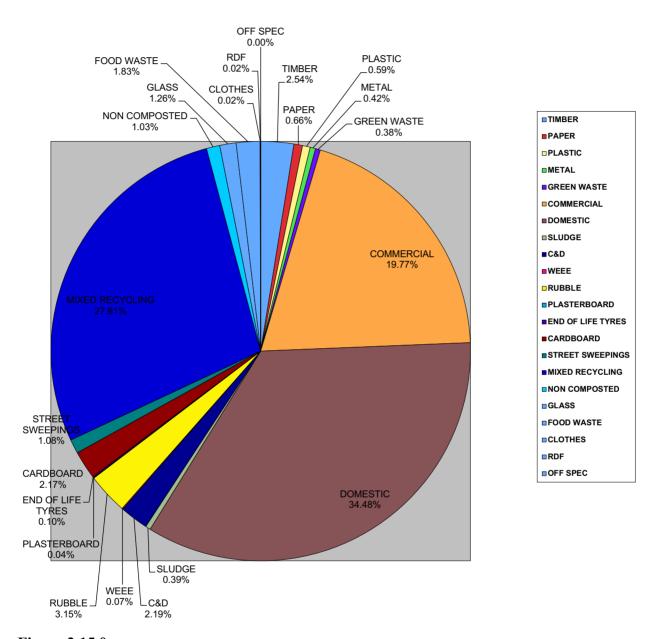


Figure 2.15.0: Breakdown of Waste Received on site from 1st January 2015 – 31st December 2015

Waste in for 2015: Table of quantities by waste type

WASTE TYPE	WASTE IN
	(tonnes per annum)
EWC 200301 Domestic	32621.73
EWC 200301 Commercial	18701.08
EWC 200303 Street / Road Sweepings	1022.77
EWC 190501 Non Composted Fraction of Municipal Wastes	973.04
EWC 170904 Mixed C & D	2076.32
EWC 170107 Inert	2977.82
EWC 200201 Garden & Park Waste	356.27
EWC 150101 Cardboard	2052.87
EWC 200101 Paper	626.86
EWC 200139 Plastic	558.57
EWC 160201 Scrap Electronics / WEEE	67.58
EWC 200138 Timber / Wood	2402.92
EWC 200199 Mixed Kerbside Recyclables	26310.88
EWC 170407 Metal	397.42
EWC 200102 Glass	1190.28
EWC 160304 Off Spec Product	3.34
EWC 170802 Plasterboard / Gypsum	39.24
EWC 160103 Tyres	90.44
EWC 190801 Grit/Screenings	365.53
EWC 200301 RDF	21.58
EWC 200108 Food Waste	1732.91
EWC 200110 Clothes / Textiles	14.82
TOTAL	94,604.27 tonnes

Table 2.15.1: Total Wastes Incoming 1st January 2015 – 31st December 2015

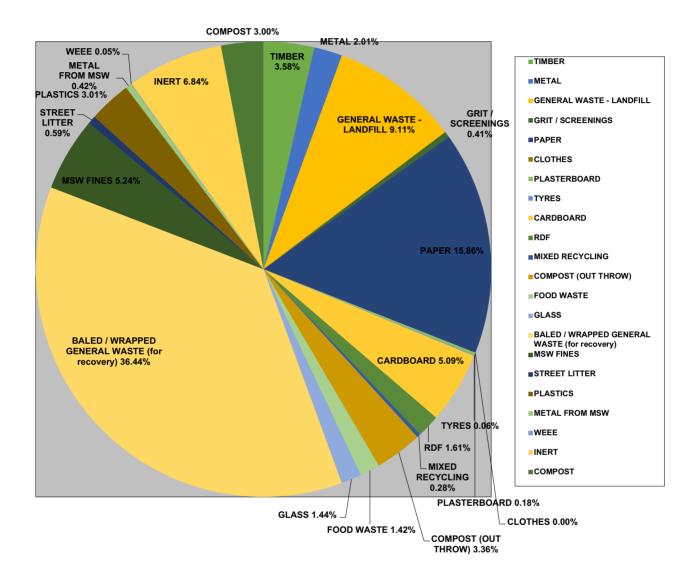


Figure 2.15.2: Breakdown of Waste going off site for Recovery or Disposal from $1^{\rm st}$ January $2015-31^{\rm st}$ December 2015

Waste out for 2015: Table of quantities by waste type:-

WASTE TYPE	WASTE OUT
	(tonnes per annum)
EWC 200301 Pre-sorted waste for landfill	8,085.30
EWC 200301 Mechanically treated mixed waste for recovery	32,335.61
(Baled / Wrapped MSW)	
EWC 190501 Non Composted Municipal Waste	2,982.19
(compost out throws)	
EWC 190305 Stabilised Waste for Disposal	
EWC 191203 Metal from MSW Processing	371.28
EWC 191212 MSW Fines from Mechanical Treatment	4646.10
EWC 200202 Inert	6066.95
EWC 200303 Street Cleaning Residues	526.88
EWC 191201 Cardboard	4513.36
EWC 191201 Paper	14077.77
EWC 191204 Plastics	2674.26
EWC 191207 Timber / Wood / Green	3179.63
EWC 160201 Scrap Electronics	44.06
EWC 160103 Tyres	50.06
EWC 191203 Metal	1784.45
EWC 191205 Glass	1277.74
EWC 191208 Clothes	1.48
EWC 190801 Grit/screenings	361.88
EWC 200303 Septic Tank Sludge	
EWC 170802 Gypsum / Plasterboard	163.46
EWC 200301 Mixed Recyclables (unsorted)	248.70
EWC 191210 Refuse Derived Fuel	1427.30
Compost – processed clean compost for farmers	2662.38
EWC 200108 Food Waste (unprocessed)	1258.66
TOTAL	88,739.43 tonnes

Table 2.15.3: Total Wastes Outgoing 1st January 2015 – 31st December 2015

RECYCLING / RECOVERY SUMMARY FOR 2015

The following table shows the % breakdown of the recyclable materials sent off site for recovery / recycling during 2015. This table only shows the RECYCLABLE / RECOVERABLE material types and lists the total tonnage recycled during 2015 and the % split that each waste type provides towards the total recycling figure:-

WASTE TYPE	RECYCLING	% OF TOTAL
(Recyclable materials only)	(tonnes per	RECYCLING
	annum)	
EWC 200301 Mechanically treated mixed waste	32,335.61	34%
for recovery (Baled / Wrapped MSW)		
EWC 200202 Inert	6066.95	6%
EWC 191201 Cardboard	4513.36	5%
EWC 191201 Paper	14077.77	15%
EWC 191204 Plastics	2674.26	3%
EWC 191207 Timber / Wood / Green	3179.63	3%
EWC 160201 Scrap Electronics	44.06	0%
EWC 160103 Tyres	50.06	0%
EWC 191203 Metal	1784.45	2%
EWC 191205 Glass	1277.74	1%
EWC 191208 Clothes	1.48	0%
EWC 190801 Grit/screenings	361.88	0.5%
EWC 200303 Septic Tank Sludge		
EWC 170802 Gypsum / Plasterboard	163.46	0%
EWC 200301 Mixed Recyclables (unsorted)	248.70	0.5%
EWC 191210 Refuse Derived Fuel	1427.30	2%
EWC 200108 Food Waste	1258.66	1%
Compost – processed clean compost for farmers	2662.38	3%
TOTAL	72,127.75	76% of total
		waste in was sent
		for recycling or
		recovery for 2015

Table 2.15.4: Breakdown of recycling waste out for 1st January 2015 – 31st December 2015

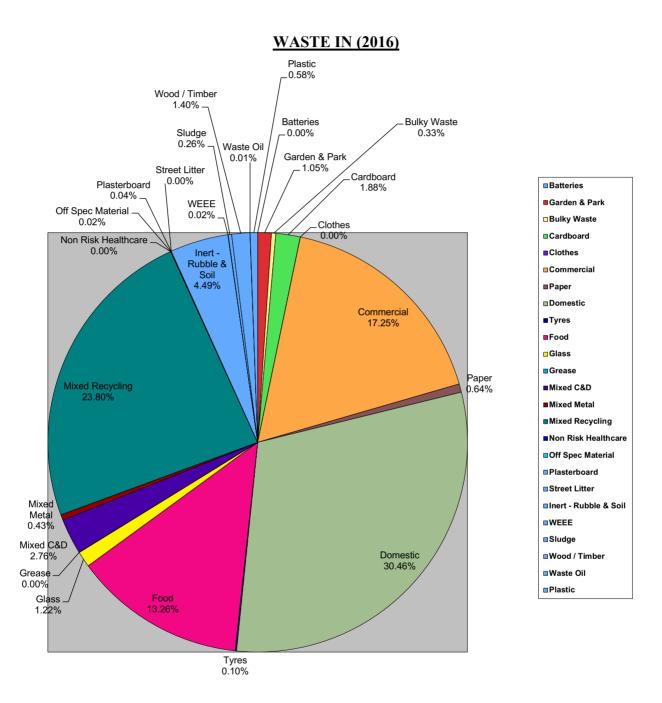


Figure 2.16.0: Breakdown of Waste Received on site from 1st January 2016 – 31st December 2016

Waste in for 2016: Table of quantities by waste type

WASTE TYPE	WASTE IN
	(tonnes per annum)
EWC 200301 Domestic	32337.35
EWC 200301 Commercial	18312.97
EWC 200307 Bulky Waste	348.73
EWC 180104 Non Risk Healthcare Waste	4.74
EWC 200303 Street / Road Sweepings	1.26
EWC 170904 Mixed C & D	2927.34
EWC 170107 Inert	4764.63
EWC 200201 Garden & Park Waste	1117.13
EWC 150101 Cardboard	1994.57
EWC 200101 Paper	682.18
EWC 200139 Plastic	613.34
EWC 160201 Scrap Electronics / WEEE	23.60
EWC 200138 Timber / Wood	1490.15
EWC 200199 Mixed Kerbside Recyclables	25273.35
EWC 170407 Metal	452.63
EWC 200102 Glass	1296.25
EWC 160304 Off Spec Product	17.04
EWC 170802 Plasterboard / Gypsum	37.3
EWC 160103 Tyres	109.43
EWC 200108 Food Waste	14083.00
EWC 130208 Waste Oil	5.34
EWC 200304 Sludge	277.07
EWC 200110 Clothes / Textiles	4.72
TOTAL	106,174.12 tonnes

Table 2.16.1: Total Wastes Incoming 1st January 2016 – 31st December 2016

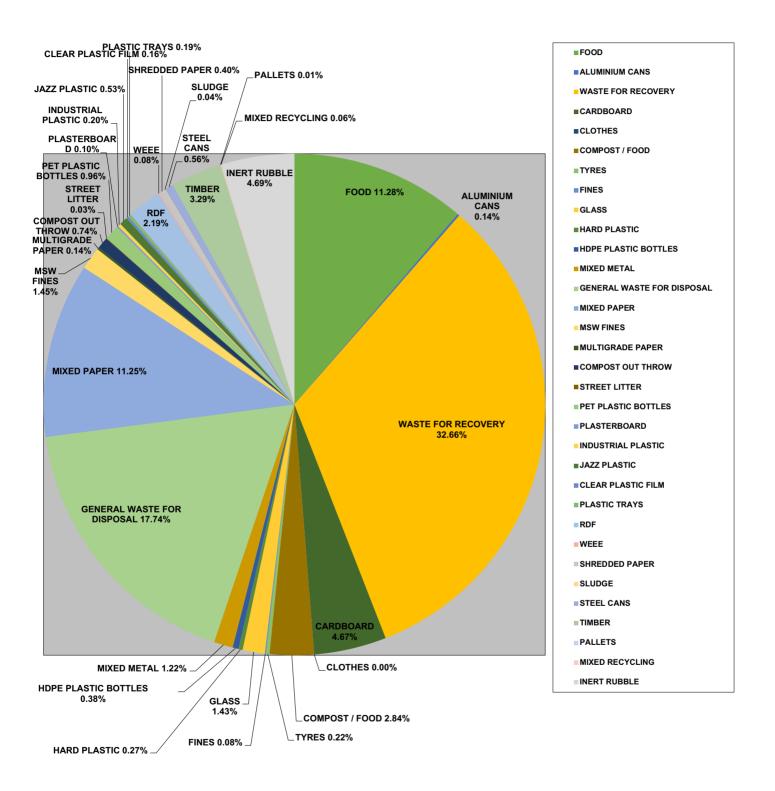


Figure 2.16.2: Breakdown of Waste going off site for Recovery or Disposal from 1^{st} January $2016-31^{st}$ December 2016

Waste out for 2016: Table of quantities by waste type:-

WASTE TYPE	WASTE OUT
	(tonnes per annum)
EWC 200301 Pre-sorted waste for landfill	18,010.37
EWC 200301 Mechanically treated mixed waste for recovery	33.150.24
(Baled / Wrapped MSW)	
EWC 190501 Non Composted Municipal Waste	750.89
(compost out throws)	
EWC 191212 MSW Fines from Mechanical Treatment	1,548.55
EWC 200202 Inert	4764.63
EWC 200303 Street Cleaning Residues	29.18
EWC 191201 Cardboard	4735.84
EWC 191201 Paper	11,969.44
EWC 191204 Plastics	2731.12
EWC 191207 Timber / Wood / Green	3346.73
EWC 160201 Scrap Electronics	85.18
EWC 160103 Tyres	224.90
EWC 191203 Metal	1240.66
EWC 150104 Metal Packaging	705.32
EWC 191205 Glass	1449.78
EWC 191208 Clothes	0.70
EWC 200303 Septic Tank Sludge	36.06
EWC 170802 Gypsum / Plasterboard	103.10
EWC 200301 Mixed Recyclables (unsorted)	60.70
EWC 191210 Refuse Derived Fuel	2227.56
Compost – processed clean compost for farmers	2885.01
EWC 200108 Food Waste (unprocessed)	11,452.24
TOTAL	101,508.20 tonnes

Table 2.16.3: Total Wastes Outgoing 1st January 2016 – 31st December 2016

RECYCLING / RECOVERY SUMMARY FOR 2016

The following table shows the % breakdown of the recyclable materials sent off site for recovery / recycling during 2016. This table only shows the RECYCLABLE or RECOVERABLE material types and lists the total tonnage recycled during 2016 and the % split that each waste type provides towards the total recycling figure:-

WASTE TYPE	RECYCLING	% OF TOTAL
(Recyclable materials only)	(tonnes per	RECYCLING
	annum)	
EWC 200301 Mechanically treated mixed waste	33.150.24	41%
for recovery (Baled / Wrapped MSW)		
EWC 200202 Inert	4764.63	6%
EWC 191201 Cardboard	4735.84	6%
EWC 191201 Paper	11,969.44	15%
EWC 191204 Plastics	2731.12	3%
EWC 191207 Timber / Wood / Green	3346.73	4%
EWC 160201 Scrap Electronics	85.18	<1%
EWC 160103 Tyres	224.90	<1%
EWC 191203 Metal	1240.66	2%
EWC 1501?? Metal Packaging	705.32	1%
EWC 191205 Glass	1449.78	2%
EWC 191208 Clothes	0.70	<1%
EWC 200303 Septic Tank Sludge	36.06	<1%
EWC 170802 Gypsum / Plasterboard	103.10	<1%
EWC 200301 Mixed Recyclables (unsorted)	60.70	<1%
EWC 191210 Refuse Derived Fuel	2227.56	3%
Compost – processed clean compost for farmers	2885.01	3%
EWC 200108 Food Waste (unprocessed)	11,452.24	14%
TOTAL	81,169.21	76% of total
	tonnes	waste in was sent
		for recycling or
		recovery for 2016

Table 2.16.4: Breakdown of recycling waste out for 1st January 2016 – 31st December 2016

Waste In / Out Reports for 2017 (New / Current Reporting Period)

WASTE IN (2017)

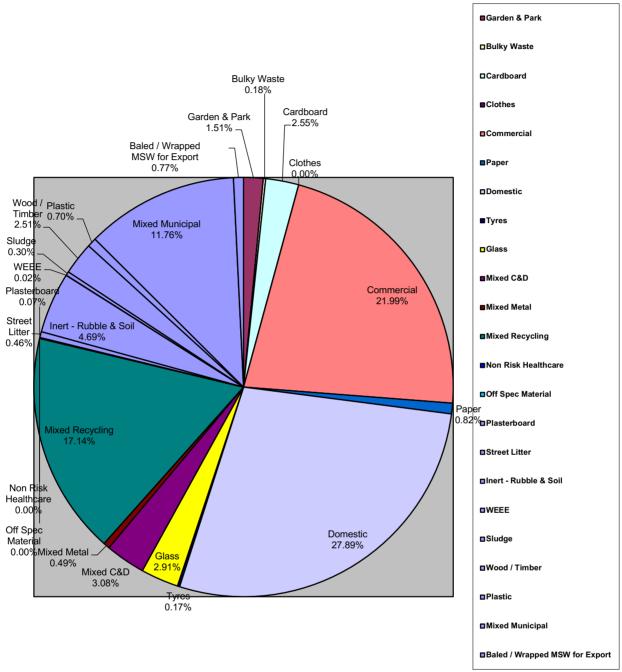


Figure 2.17.0: Breakdown of Waste Received on site from 1st January 2017 – 31st December 2017

Waste in for 2017: Table of quantities by waste type

WASTE TYPE	WASTE IN
	(tonnes per annum)
EWC 200301 Domestic	25038.30
EWC 200301 Commercial	19741.09
EWC 200301 Mixed Municipal Waste	10,559.84
EWC 200301 Baled Wrapped Waste for Export	690.30
EWC 200307 Bulky Waste	161.96
EWC 180104 Non Risk Healthcare Waste	0.46
EWC 200303 Street / Road Sweepings	410.05
EWC 170904 Mixed C & D	2769.47
EWC 170107 Inert	4207.36
EWC 200201 Garden & Park Waste	1353.69
EWC 150101 Cardboard	2288.26
EWC 200101 Paper	738.61
EWC 200139 Plastic	629.98
EWC 160201 Scrap Electronics / WEEE	15.34
EWC 200138 Timber / Wood	2251.95
EWC 200199 Mixed Kerbside Recyclables	15391.29
EWC 170407 Metal	437.82
EWC 200102 Glass	2610.74
EWC 160304 Off Spec Product	2.38
EWC 170802 Plasterboard / Gypsum	61.34
EWC 160103 Tyres	153.38
EWC 200108 Food Waste	Recorded in compost section
EWC 200304 Sludge	265.34
EWC 200110 Clothes / Textiles	0.12
TOTAL	89,779.08 tonnes

Table 2.17.1: Total Wastes Incoming 1st January 2017 – 31st December 2017

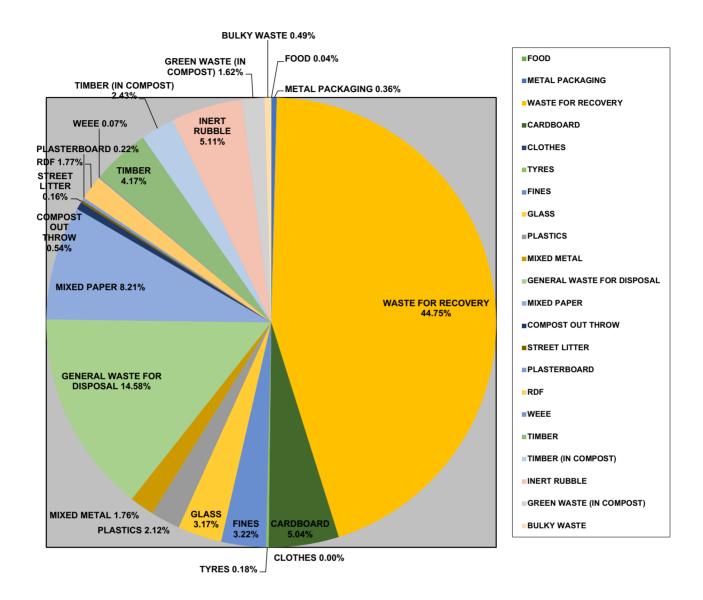


Figure 2.17.2:
Breakdown of Waste going off site for Recovery or Disposal from 1st January 2017 – 31st
December 2017

Waste out for 2017: Table of quantities by waste type:-

WASTE TYPE	WASTE OUT
	(tonnes per annum)
EWC 200301 Pre-sorted waste for landfill	12,157.60
EWC 200301 Mechanically treated mixed waste for	37,316.83
recovery (Baled / Wrapped MSW)	
EWC 190501 Non Composted Municipal Waste	453.04
(compost out throws)	
EWC 191212 MSW Fines from Mechanical Treatment	2683.22
EWC 200307 Bulky Waste (includes fly tipping)	405.10
EWC 200202 Inert	4261.38
EWC 200303 Street Cleaning Residues	133.28
EWC 191201 Cardboard	4201.78
EWC 191201 Paper	6842.60
EWC 191204 Plastics	1769.62
EWC 191207 Timber / Wood / Green	3480.60
EWC 160201 Scrap Electronics	55.10
EWC 160103 Tyres	152.68
EWC 191203 Metal	1470.42
EWC 150104 Metal Packaging	297.94
EWC 191205 Glass	2640.14
EWC 191208 Clothes	0.88
EWC 170802 Gypsum / Plasterboard	181.14
EWC 191210 Refuse Derived Fuel	1474.24
Compost – processed clean compost for farmers	Recorded in compost section
EWC 200201 Green Waste (used in compost)	1353.69
EWC 191207 Timber (used in compost)	2028.30
EWC 200108 Food Waste (unprocessed)	31.86
TOTAL	83,391.44 tonnes

Table 2.17.3: Total Wastes Outgoing 1st January 2017 – 31st December 2017

RECYCLING / RECOVERY SUMMARY FOR 2017

The following table shows the % breakdown of the recyclable materials sent off site for recovery / recycling during 2017. This table only shows the RECYCLABLE or RECOVERABLE material types and lists the total tonnage recycled during 2017 and the % split that each waste type provides towards the total recycling figure:-

WASTE TYPE	RECYCLING	% OF TOTAL
(Recyclable materials only)	(tonnes per	RECYCLING
	annum)	
EWC 200301 Mechanically treated mixed waste	37,316.83	41%
for recovery (Baled / Wrapped MSW)		
EWC 191212 MSW Fines from Mechanical	2683.22	
Treatment		
EWC 200202 Inert	4261.38	6%
EWC 191201 Cardboard	4201.78	6%
EWC 191201 Paper	6842.60	15%
EWC 191204 Plastics	1769.62	3%
EWC 191207 Timber / Wood / Green	5508.90	4%
EWC 160201 Scrap Electronics	55.10	<1%
EWC 160103 Tyres	152.68	<1%
EWC 191203 Metal	1470.42	2%
EWC 1501?? Metal Packaging	297.94	1%
EWC 191205 Glass	2640.14	2%
EWC 191208 Clothes	0.88	<1%
EWC 170802 Gypsum / Plasterboard	181.14	<1%
EWC 191210 Refuse Derived Fuel	1474.24	3%
EWC 200108 Food Waste (unprocessed)	31.86	14%
EWC 200201 Green Waste (used in compost)	1353.69	
TOTAL	70,242.42	78% of total
	tonnes	waste in was sent
		for recycling or
		recovery for
		2017**

^{**} This figure does NOT include compost processed and given to local farmers this is reported in the compost section **

Table 2.17.4: Breakdown of recycling waste out for 1st January 2017 – 31st December 2017

Explanation of Tonnage on Site at the end of 2017

As can be seen from the waste in and out records outlined above the following are the annual totals for the Barna Recycling site in Carrowbrowne:-

Total Waste In:- 89,779.08 tonnes Total Waste Out:- 83,391.44 tonnes

This gives a difference of 6,387.64 tonnes of a difference outlining stock on site at the end of the reporting year.

During the course of the reporting year as a company we would always hold a level of stock on site of various products waiting to be processed. As a rule we try to clear the site as much as possible of recyclables etc to reduce the value of stock held at the end of the reporting year and ensure we are in compliance with our Waste Storage Plan and insurance requirements. Due to insurance and licence restrictions it is not permitted that excessive stock levels are held in any one area of the site at any time so stock rotation is an important part of our business.

As an example of typical main items of stock (not taking into account smaller items) at the end of 2017 the following stock was recorded:-

450 tonnes Mixed Recyclables: Landfill Waste (loose): 1250 tonnes Bulky Waste: 350 tonnes Saleable Recycling Bales: 550 tonnes Baled / Wrapped MSW: 3250 tonnes MSW Fines: 150 tonnes Timber: 150 tonnes Glass 120 tonnes RDF: 100 tonnes Civic Amenity Site: 100 tonnes Construction & Demolition 200 tonnes Total: 6670 tonnes

All of these are typical stock items and vary in quantity during the reporting year and are only being used to give an example of the typical stock items that make up end of year counts on site. There is always more in stock at year end that in normal times due to places closing for holidays and in this case we had a boat of MSW scheduled to be loaded in week 1 2018.

It was decided because composting material naturally breaking down skews stock figures that compost and waste / recycling would be reported separately in order to give a better picture of waste movements on site.

Compost Facility

Waste In / Out 2017 Summary

Barna Recycling also operate a composting facility on site which is licenced by both the EPA under our existing waste licence 106/2 and in additional is accredited by the Department of Agriculture Fish and the Marine (DAFM) under licence number COMP 40.

The waste in / out of the composting facility is measured on a daily basis and tracked internally.

Tonnage received into the composting facility will never balance like normal waste types in terms of quantities of waste equating to quantities of end product removed from the site due the natural breakdown of the material

During 2016 it should be noted that Barna Recycling's Composting Site was closed due to significant upgrades to our material reception and odour management processes. This involved the construction and implementation of three new tunnels at the front end of the process which allow new fresh material to be processed in a temperature controlled enclosed tunnel rather in an open air aisle to help control the temperature and odour of the material.

During this period all fresh material received on site for composting was stored and transferred to alternative facilities for processing and was not delivered into our own composting facility. The works were fully completed in November 2016 and therefore only from late November and the end of December material started to be allowed into our own composting facility in 2016.

The operation of the facility ran as normal during this new reporting period of 2017 and all tonnages delivered to site were processed through the composting facility. Tonnages detailed below reflect the change to normal production of January to December.

A summary of waste in for the composting facility specific to 2017 is included below:

2017 INTAKE SUMMARY	
JANUARY	970.54
FEBRUARY	861.17
March	1242
April	1263
May	1571
June	1568
July	1473
August	1481
September	1439
October	1264
November	1289
December	1062
TOTAL	15483.71

This intake tonnage was made up by the delivery of our own materials and also some third party tonnages from other waste collectors in the region. Intake materials consist of category 3 catering waste and green garden waste in the main.

The end product compost material once it has passed all relevant testing for E-Coli, F-Coli, Quality, Nutrition's, Salmonella and AT4 then it is stored in the clean area of the facility for shipment once the 21 day maturation period has passed.

The following compost produce was shipped during 2017:-

2017 OUTGOING SUMMARY

Total Tonnes of Compost Shipped: 3100 tonnes

All end products were shipped to the agriculture industry for use by local farmers as either tillage of pasture land and all farms receiving end products are registered with the Department of Agriculture in advance of receiving their first load. All outgoing shipments are tracked using official commercial documents and these are on file as part of the HACCP plan for review during any inspections.

Detail of the end destination outlets for each load shipped are detailed below:-

	Vehicle				Batch	Nett
Date	Reg	Customer/Destination	Address	End Usage	Number	Weight(kgs)
26/01/2017	04G11237	Finnegans Farm	Cortoon, Tuam, Co Galway	Tillage	21032016	25340
26/01/2017	02MO5312	Eanna Canavan	The Bungalow, Belclare, Co. Galway	Pastureland	21032016	13360
27/01/2017	08MH8231	Finnegans Farm	Cortoon, Tuam, Co Galway	Tillage	21032016	26980
27/01/2017	08MH8231	Finnegans Farm	Cortoon, Tuam, Co Galway	Tillage	21032016	25800
30/01/2017	08MH8231	Finnegans Farm	Cortoon, Tuam, Co Galway	Tillage	21032016	26900
31/01/2017	02MO5312	Eanna Canavan	The Bungalow, Belclare, Co. Galway	Pastureland	21032016	16040
31/01/2017	02MO5312	Eanna Canavan	The Bungalow, Belclare, Co. Galway	Pastureland	21032016	14720
31/01/2017	02MO5312	Eanna Canavan	The Bungalow, Belclare, Co. Galway	Pastureland	21032016	17800
08/05/2017	02MO5312	Padraig Boyle	Ryhill, Monivea, Co Galway	Pastureland	25112016	13320
08/05/2017	02MO5312	Padraig Boyle	Ryhill, Monivea, Co Galway	Pastureland	25112016	11940
08/05/2017	04MH7190	Padraig Boyle	Ryhill, Monivea, Co Galway	Pastureland	25112016	14000
08/05/2017	04MH7190	Padraig Boyle	Ryhill, Monivea, Co Galway	Pastureland	25112016	13180
08/05/2017	04MH7190	Padraig Boyle	Ryhill, Monivea, Co Galway	Pastureland	25112016	15060
09/05/2017	04MH7190	Padraig Boyle	Ryhill, Monivea, Co Galway	Pastureland	25112016	16360
09/05/2017	04MH7190	Padraig Boyle	Ryhill, Monivea, Co Galway	Pastureland	25112016	15860
09/05/2017	04MH7190	Padraig Boyle	Ryhill, Monivea, Co Galway	Pastureland	25112016	14640
09/05/2017	02MO5312	Padraig Boyle	Ryhill, Monivea, Co Galway	Pastureland	25112016	14060
09/05/2017	02MO5312	Padraig Boyle	Ryhill, Monivea, Co Galway	Pastureland	25112016	13520
09/05/2017	02MO5312	Padraig Boyle	Ryhill, Monivea, Co Galway	Pastureland	25112016	14120
09/05/2017	02MO5312	Padraig Boyle	Ryhill, Monivea, Co Galway	Pastureland	25112016	14360
10/05/2017	04MH7190	Finton Cosgrove	Ballinamona, Ballyglunin, Tuam, Co. Galway	Pastureland	25112016	13100
10/05/2017	04MH7190	Finton Cosgrove	Ballinamona, Ballyglunin, Tuam, Co. Galway	Pastureland	25112016	16320
10/05/2017	04MH7190	Finton Cosgrove	Ballinamona, Ballyglunin, Tuam, Co. Galway	Pastureland	25112016	16380
10/05/2017	02MO5312	Finton Cosgrove	Ballinamona, Ballyglunin, Tuam, Co. Galway	Pastureland	25112016	11820
10/05/2017	02MO5312	Finton Cosgrove	Ballinamona, Ballyglunin, Tuam, Co. Galway	Pastureland	25112016	14140
10/05/2017	02MO5312	Finton Cosgrove	Ballinamona, Ballyglunin, Tuam, Co. Galway	Pastureland	25112016	15360
10/05/2017	02MO5312	Finton Cosgrove	Ballinamona, Ballyglunin, Tuam, Co. Galway	Pastureland	25112016	14760
10/05/2017	05G5895	Angus (Michael Murphy)	Pillagh, Moycullen, Co Galway	Pastureland	25112016	17500
10/05/2017	05G5895	Michael Moloney	Ballinamona, Ballyglunin, Tuam, Co. Galway	Pastureland	25112016	16500
10/05/2017	04MH7190	Finton Cosgrove	Ballinamona, Ballyglunin, Tuam, Co. Galway	Pastureland	8122016	16300
11/05/2017	04MH7190	Finton Cosgrove	Ballinamona, Ballyglunin, Tuam, Co. Galway	Pastureland	8122016	16500
11/05/2017	04MH7190	Finton Cosgrove	Ballinamona, Ballyglunin, Tuam, Co. Galway	Pastureland	8122016	17520
11/05/2017	04MH7190	Finton Cosgrove	Ballinamona, Ballyglunin, Tuam, Co. Galway	Pastureland	8122016	17800
11/05/2017	04MH7190	Finton Cosgrove	Ballinamona, Ballyglunin, Tuam, Co. Galway	Pastureland	8122016	16920
11/05/2017	02MO5312	Finton Cosgrove	Ballinamona, Ballyglunin, Tuam, Co. Galway	Pastureland	8122016	14940
11/05/2017	02MO5312	Finton Cosgrove	Ballinamona, Ballyglunin, Tuam, Co. Galway	Pastureland	8122016	15720
11/05/2017	02MO5312	Finton Cosgrove	Ballinamona, Ballyglunin, Tuam, Co. Galway	Pastureland	8122016	15300
11/05/2017	02MO5312	Finton Cosgrove	Ballinamona, Ballyglunin, Tuam, Co. Galway	Pastureland	8122016	15860
12/05/2017	04MH7190	Finton Cosgrove	Ballinamona, Ballyglunin, Tuam, Co. Galway	Pastureland	8122016	16340

12/05/2017	04MH7190	Finton Cosgrovo	Pallinamona Pallyglunin Tuam Co Galway	Pastureland	8122016	13140
	04MH7190	Finton Cosgrove Finton Cosgrove	Ballinamona, Ballyglunin, Tuam, Co. Galway Ballinamona, Ballyglunin, Tuam, Co. Galway	Pastureland	8122016	16760
	04MH7190	, and the second		Pastureland	8122016	14700
		Finton Cosgrove	Ballinamona, Ballyglunin, Tuam, Co. Galway			
	04MH7190 04MH7190	Finton Cosgrove	Ballinamona, Ballyglunin, Tuam, Co. Galway	Pastureland Pastureland	8122016	15600 16060
· · ·		Finton Cosgrove	Ballinamona, Ballyglunin, Tuam, Co. Galway		29122016 29122016	
	04MH7190	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland		15360
	04MH7190	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29122016	13360
	04MH7190	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29122016	15140
	04MH7190	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29122016	11480
	04MH7190	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29122016	16200
	04MH7190	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29122016	16660
	04MH7190	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29122016	15820
	04MH7190	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29122016	17840
17/05/2017	04MH7190	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29122016	14920
18/05/2017	04MH7190	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29122016	17620
18/05/2017	04MH7190	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29122016	16940
18/05/2017	04MH7190	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29122016	17300
19/05/2017	04MH7190	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29122016	16480
19/05/2017	04MH7190	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29122016	15960
12/06/2017	04MH7190	Thomas Meehan	Moylough	Tillage	12012017	15320
12/06/2017	04MH7190	Thomas Meehan	Moylough	Tillage	12012017	15660
12/06/2017	04MH7190	Thomas Meehan	Moylough	Tillage	12012017	15320
13/06/2017	04MH7190	Thomas Meehan	Moylough	Tillage	12012017	16120
16/06/2017	04MH7190	Thomas Meehan	Moylough	Tillage	12012017	12580
16/06/2017	04MH7190	Thomas Meehan	Moylough	Tillage	12012017	12620
19/06/2017	04MH7190	Thomas Meehan	Moylough	Tillage	12012017	14060
19/06/2017	04MH7190	Thomas Meehan	Moylough	Tillage	12012017	13560
19/06/2017	04MH7190	Thomas Meehan	Moylough	Tillage	12012017	13840
	04MH7190	Thomas Meehan	Moylough	Tillage	12012017	12520
	04MH7190	Thomas Meehan	Moylough	Tillage	12012017	13420
	04MH7190	Thomas Meehan	Moylough	Tillage	12012017	13220
	04MH7190	Tom Moran	Craughwell	Landscaping	12012017	12840
	04MH7190	Tom Moran	Craughwell	Landscaping	12012017	13680
	04MH7190	Tom Moran	Craughwell	Landscaping	12012017	12860
	04MH7190	Padraig Small	Castlegar	Pastureland	30012017	15080
	04MH7190	Padraig Small	Castlegar	Pastureland	30012017	14620
	04MH7190	Padraig Small	Castlegar	Pastureland	30012017	14780
	04MH7190	Padraig Small	Castlegar	Pastureland	30012017	15000
	04MH7190	Padraig Small	Castlegar	Pastureland	30012017	16440
	04MH7190			Pastureland	30012017	15540
	04MH7190	Padraig Small	Castlegar	Pastureland	30012017	13200
		Padraig Small	Castlegar			
	04MH7190	Padraig Small	Castlegar	Pastureland	30012017	15100
	04MH7190	Padraig Small	Castlegar	Pastureland	30012017	13980
	04MH7190	Padraig Small	Castlegar	Pastureland	30012017	13480
	04MH7190	Padraig Small	Castlegar	Pastureland	30012017	13460
	04MH7190	Padraig Small	Castlegar	Pastureland	30012017	13320
	04MH7190	Padraig Small	Castlegar	Pastureland	30012017	15760
	04MH7190	Padraig Small	Castlegar	Pastureland	30012017	15640
	04MH7190	Padraig Small	Castlegar	Pastureland	30012017	14640
	04MH7190	Padraig Small	Castlegar	Pastureland	30012017	13820
	04MH7190	Padraig Small	Castlegar	Pastureland	30012017	14000
	04MH7190	Thomas Meehan	Moylough	Tillage	16022017	13020
11/07/2017	04MH7190	Thomas Meehan	Moylough	Tillage	16022017	13180
11/07/2017	04MH7190	Thomas Meehan	Moylough	Tillage	16022017	13100
11/07/2017	04MH7190	Thomas Meehan	Moylough	Tillage	16022017	13500
12/07/2017		Thomas Meehan	Moylough	Tillage	16022017	14500
12/07/2017	04MH7190					
, , - 5 - ,	04MH7190 04MH7190	Thomas Meehan	Moylough	Tillage	16022017	14680
			Moylough Moylough	Tillage Tillage	16022017 16022017	14680 14940
12/07/2017	04MH7190	Thomas Meehan	. 9			
12/07/2017 12/07/2017	04MH7190 04MH7190	Thomas Meehan Thomas Meehan	Moylough	Tillage	16022017	14940

42/07/2047	021405242			1	46022047	12200
12/07/2017	02MO5312	Tom Moran	Craughwell	Landscaping	16022017	13300
13/07/2017	02MO5312	Tom Moran	Craughwell	Landscaping	16022017	12220
13/07/2017	02MO5312	Tom Moran	Craughwell	Landscaping	16022017	11520
13/07/2017	02MO5312	Tom Moran	Craughwell	Landscaping	16022017	11600
13/07/2017	02MO5312	Tom Moran	Craughwell	Landscaping	16022017	11640
14/07/2017	02MO5312	Thomas Meehan	Moylough	Tillage	16022017	11500
27/07/2017	04MH7190	Gerry Heavey	Cloonoran Oughter, Moylough	Tillage	6032017	11560
31/07/2017	04MH7190	Gerry Heavey	Cloonoran Oughter, Moylough	Tillage	6032017	12220
31/07/2017	04MH7190	Gerry Heavey	Cloonoran Oughter, Moylough	Tillage	6032017	11200
31/07/2017	04MH7190	Gerry Heavey	Cloonoran Oughter, Moylough	Tillage	6032017	12920
01/08/2017	04MH7190	Gerry Heavey	Cloonoran Oughter, Moylough	Tillage	6032017	13520
01/08/2017	04MH7190	Gerry Heavey	Cloonoran Oughter, Moylough	Tillage	6032017	13180
01/08/2017	04MH7190	Gerry Heavey	Cloonoran Oughter, Moylough	Tillage	6032017	13700
02/08/2017	04MH7190	Joerg Muller	Doon West, Roscahill, Co Galway	Landscaping	6032017	14060
02/08/2017	04MH7190	Gerry Heavey	Cloonoran Oughter, Moylough	Tillage	6032017	9280
03/08/2017	04MH7190	Gerry Heavey	Cloonoran Oughter, Moylough	Tillage	6032017	12980
25/08/2017	02MO5312	Galway County Council, Athenry	Tonroe, Clarenbridge, Co Galway	Landscaping	6032017	15140
25/08/2017	02MO5312	Galway County Council, Athenry	Tonroe, Clarenbridge, Co Galway	Landscaping	6032017	16840
28/08/2017	04RN2702	Gerry Heavey	Cloonoran Oughter, Moylough	Tillage	6032017	14280
28/08/2017	04RN2702	Gerry Heavey	Cloonoran Oughter, Moylough	Tillage	6032017	14600
29/08/2017	04RN2702	Gerry Heavey	Cloonoran Oughter, Moylough	Tillage	18032017	13620
29/08/2017	04RN2702	Gerry Heavey	Cloonoran Oughter, Moylough	Tillage	18032017	13540
29/08/2017	04RN2702	Gerry Heavey	Cloonoran Oughter, Moylough	Tillage	18032017	15600
29/08/2017	04RN2702	Gerry Heavey	Cloonoran Oughter, Moylough	Tillage	18032017	14520
30/08/2017	04RN2702	Gerry Heavey	Cloonoran Oughter, Moylough	Tillage	18032017	14740
30/08/2017	04RN2702	Gerry Forde	Corrandulla, Co Galway	Tillage	18032017	14980
30/08/2017	04RN2702	Gerry Forde	Corrandulla, Co Galway	Tillage	18032017	14680
30/08/2017	04RN2702	Gerry Forde	Corrandulla, Co Galway	Tillage	18032017	14640
30/08/2017	04RN2702	Gerry Forde	Corrandulla, Co Galway	Tillage	18032017	12680
31/08/2017	04RN2702	Gerry Forde	Corrandulla, Co Galway	Tillage	18032017	13460
31/08/2017	04RN2702	Gerry Forde	Corrandulla, Co Galway	Tillage	18032017	14220
01/09/2017	04RN2702	Gerry Forde	Corrandulla, Co Galway	Tillage	18032017	14120
01/09/2017	04RN2702	Gerry Forde	Corrandulla, Co Galway	Tillage	18032017	14810
01/09/2017	04RN2702	Gerry Forde	Corrandulla, Co Galway	Tillage	18042017	15240
01/09/2017	04RN2702	Gerry Forde	Corrandulla, Co Galway	Tillage	18042017	16280
01/09/2017	04RN2702	Gerry Forde	Corrandulla, Co Galway	Tillage	18042017	15840
01/09/2017	04RN2702	Gerry Forde	Corrandulla, Co Galway	Tillage	18042017	16280
04/09/2017	02MO5312	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	18042017	14140
04/09/2017	02MO5312	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	18042017	15500
04/09/2017	02MO5312	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	18042017	13280
04/09/2017	04RN2702	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	18042017	15240
04/09/2017	04RN2702	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	18042017	14260
04/09/2017	04RN2702	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	18042017	13800
05/09/2017	02MO5312	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29042017	13900
05/09/2017	02MO5312	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29042017	13520
05/09/2017	02MO5312	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29042017	13520
05/09/2017	02MO5312	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29042017	13640
05/09/2017	04RN2702	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29042017	14480
05/09/2017	04RN2702	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29042017	14860
05/09/2017	04RN2702	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29042017	14000
06/09/2017	04RN2702	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29042017	13740
06/09/2017	04RN2702	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29042017	14940
06/09/2017	04RN2702	Galway County Council, Athenry	Tonroe, Clarenbridge, Co Galway	Landscaping	29042017	14660
06/09/2017	02MO5312	Gerald Harney	Lisnagranchy, Ardrahan, Co Galway	Pastureland	29042017	12740
06/09/2017	02MO5312	Ciarán O ' Neill	Dringeen, Cong, Co Mayo	Pastureland	29042017	13620
06/09/2017	02MO5312	Ciarán O ' Neill	Dringeen, Cong, Co Mayo	Pastureland	29042017	13820
11/10/2017	03G11202	Mark Kilkelly	Cahercarney, Kinvara, Co Galway	Pastureland	15052017	11480
11/10/2017	03G11202 03G11202	Mark Kilkelly	Cahercarney, Kinvara, Co Galway Cahercarney, Kinvara, Co Galway	Pastureland	15052017	12700
11/10/2017	03G11202 03G11202	Mark Kilkelly	Cahercarney, Kinvara, Co Galway Cahercarney, Kinvara, Co Galway	Pastureland	15052017	13300
12/10/2017	03G11202 03G11202	Mark Kilkelly	Cahercarney, Kinvara, Co Galway Cahercarney, Kinvara, Co Galway		15052017	12640
		,	, , , , , , , , , , , , , , , , , , , ,	Pastureland		
13/10/2017	03G11202	Mark Kilkelly	Cahercarney, Kinvara, Co Galway	Pastureland	15052017	13360

13/10/2017	03G11202	Larry Curran	Porryloughano Wost, Spiddal, Co Galway	Pastureland	15052017	13160
13/10/2017	03G11202 03G11202	Larry Curran Larry Curran	Derryloughane West, Spiddal, Co Galway Derryloughane West, Spiddal, Co Galway	Pastureland	15052017	12560
17/10/2017	03G11202 03G11202	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	15052017	13320
18/10/2017	03G11202 03G11202	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	15052017	10640
18/10/2017	03011202 02M05312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	15052017	10900
19/10/2017	03G11202	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	15052017	11080
20/10/2017	03G11202 03G11202	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	15052017	10600
07/11/2017	03011202 02M05312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	27052017	13020
07/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	27052017	14120
07/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	27052017	15000
08/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	27052017	12680
10/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	27052017	14200
13/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	27052017	16140
13/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	27052017	13140
14/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	27052017	12820
14/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	27052017	13880
15/11/2017	05CE3638	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	27052017	14240
15/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	27052017	14680
15/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	27052017	14480
15/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	27052017	13840
15/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	27052017	14360
16/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	27052017	14880
16/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	12062017	15300
16/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	12062017	14720
16/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	12062017	15900
20/11/2017	04RN2702	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	12062017	15660
20/11/2017	04RN2702	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	12062017	14080
20/11/2017	04RN2702	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	12062017	14180
22/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	12062017	15000
22/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	12062017	15080
22/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	12062017	14920
23/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	12062017	13860
23/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	12062017	15000
23/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	12062017	15580
23/11/2017	02MO5312	Larry Curran	Derryloughane West, Spiddal, Co Galway	Pastureland	12062017	15520
12/12/2017	05CE3638	Mark Kilkelly	Cahercarney, Kinvara, Co Galway	Pastureland	30062017	12560
12/12/2017	02MO5312	Mark Kilkelly	Cahercarney, Kinvara, Co Galway	Pastureland	30062017	14640
12/12/2017	02MO5312	Mark Kilkelly	Cahercarney, Kinvara, Co Galway	Pastureland	30062017	14380
12/12/2017	04MH7190	Padraig McNulty	Tully, Ballinahown, Co Galway	Pastureland	30062017	12900
12/12/2017	04MH7190	Padraig McNulty	Tully, Ballinahown, Co Galway	Pastureland	30062017	13600
13/12/2017	05CE3638	Mark Kilkelly	Cahercarney, Kinvara, Co Galway	Pastureland	30062017	12700
13/12/2017	05CE3638	Mark Kilkelly	Cahercarney, Kinvara, Co Galway	Pastureland	30062017	13200
13/12/2017	02MO5312	Mark Kilkelly	Cahercarney, Kinvara, Co Galway	Pastureland	30062017	15860
13/12/2017	02MO5312	Mark Kilkelly	Cahercarney, Kinvara, Co Galway	Pastureland	30062017	15840
13/12/2017	02MO5312	Mark Kilkelly	Cahercarney, Kinvara, Co Galway	Pastureland	30062017	14180
14/12/2017	05CE3638	Paraic Ó Fáthartha	Cloch Mór, Baile na hAbhainn, Co na Gaillimhe	Pastureland	30062017	13680
14/12/2017	05CE3638	Paraic Ó Fáthartha	Cloch Mór, Baile na hAbhainn, Co na Gaillimhe	Pastureland	30062017	13980
14/12/2017	02MO5312	Paraic Ó Fáthartha	Cloch Mór, Baile na hAbhainn, Co na Gaillimhe	Pastureland	30062017	15580
14/12/2017	02MO5312	Paraic Ó Fáthartha	Cloch Mór, Baile na hAbhainn, Co na Gaillimhe	Pastureland	18072017	14440
19/12/2017	04G11237	Larry Carr	Carnmore, Oranmore, Co Galway	Tillage	18072017	24800

Processed material must pass a quality test based on conditions set out in our EPA licence. Compost is checked for traces of metals, impurities and gravel or stones to ensure the composting process had produced a good quality material.

There were no instances of quality failures of any batch during this reporting period.

We had one rejected or failed composting batch during this reporting period due to detection of ECOLI in superbatch SB12092017. This was the first and only incident where a fail was detected. This batch was notified to the DAFM Officials in November who advised to return the batch to the dirty area for re-pasteurisation. There have been no issues since this with any other batches in the process and once re-processed the batch passed all requirements. The cause was determined to be an untrained member of staff not taking samples correctly and therefore this process has been changed and only the Compost Manager or approved deputy will take samples moving forward. A corrective action has been noted for this batch and DAFM were satisfied with the resolution.

All completed batches are allowed to mature for at least 21 days prior to consideration for shipment as per the requirements of our EPA licence.

Finally all material must be put through an AT4 test to determine if the material was stabilised and the composting process has been completed. The AT4 test must show that the material is <10mg/o2/g and once again all composting batches processed in 2017 reached the appropriate standard as specified in our EPA licence.

The following records are available on request in relation to our composting:

- E-Coli Test Results
- Salmonella Test Results
- AT4 Test Results
- Trace Element (Compost Quality) Test Results
- HACCP Plan and associated procedures

Waste In / Out 2017 Final Summary

Tonnages through the facility in 2017 decreased very slightly in comparison to the previous reporting year to just over 105,000 incoming tonnes compared to 106,000 tonnes from 2016 and 109,000 tonnes accepted in 2015.

As a company we have three main waste types which we focus on which are our mixed recyclables which can be processed via our own picking station, our composting facility which we are trying to have reach it's capacity of 20,000 tonnes over the next few years and then the mixed municipal waste's which can be processed via our mechanical treatment process and sent for recovery.

During 2017 there was a dramatic reduction in the mixed recycling tonnage accepted at the facility this was down to a business decision to divert some of the recycling from our sister sites to another company for sorting. This allowed us to reduce the picking on our own site to one shift. In addition there was an increase of around 5,000 tonnes in the general waste transferred back to our facility and this was to assist in the preparation for mechanical treatment of this waste which increased in 2017. Those were the two main operational changes in 2017 affecting tonnages on site.

The company EPA licence which is for 166,000 tonnes means we have no issues in relation to tonnage limits of site and currently operate well within our licence limits.

2.17.5 Summary of Recycling Outlets used in 2017

Barna Recycling are committed to finding new recycling markets in Ireland, Europe and Worldwide to ensure materials produced from the picking station and the other areas in our waste transfer station are sent to the best possible recycling outlets. All outlets for the materials going out have been approved in advance by the EPA. A summary of the major recycling outlets currently quoting and purchasing material is included below:

Metals

Galway Metal (Galway) – WFP-G-09-0006-05 Green Dragon Recycling – IRE/G074/15

Cardboard & Paper

Peute Papier Recycling (Holland) – IRE/G006/14 Recycling UK (England) – IRE/G069/15 IPR Irish Packaging Recycling (Panda, Ireland) – IRE/G133/15 Agnail Limited – IRE/AG117/16 Cellmark (USA) – IRE/AG175/15 Northwood recycling Limited – IRE/G282/15

Polystyrene

WRC Recycling (Scotland) – IRE/G121/12 Leinster Environmental – IRE/G127/15

Plasterboard

Envirogrind – WP0405 Macnabb Brothers – LN/09/111/M

Plastics

WRC Recycling (Scotland) – IRE/G121/15 Leinster Environmental – IRE/G127/15 Peute Plastic Recycling (Holland) – IRE/G281/14 Jayplas (England) – IRE/G058/12 Shabra (Monaghan) – WFP-MN-08-0022-01 Materia Environmental Limited – IRE/AG161/15 Nevis Resource Limited – IRE/G422/16

Textiles

Textile Recycling Ireland Limited - NWCPO-08-01225-01

Glass

Rehab Glassco – WFP-KE-08-0957-01

Green Waste

Barna Waste Composting Site (Galway) – EPA 106/2

Wood

Barna Waste Composting Site (Galway) – EPA 106/2 Drehid Landfill – EPA 0201-03 Rathroeen Landfill – EPA 0067/02 East Galway Landfill – EPA 0178/02 OCR Waste Management – WFP-RN-10-0001

WEEE

Electrical Waste Management – WFP-DS-09-0012-01 WEEE Ireland – no licence / permit

Batteries

Electrical Waste Management – WFP-DS-09-0012-01

Tyres

MSM Recycling (Birr) – WFP-TN-11-0003-02

General Waste - Landfill

Drehid Landfill – EPA 0201-03 Rathroeen Landfill – EPA 0067/02 East Galway Landfill – EPA 0178/02

Bulky Waste

Barna Waste (Galway) – EPA WL106/02

General Waste – For Recovery

Indaver Ireland – EPA WO167/03 Cellmark (USA) – IRE/AG175/15

Processed Compost

All to local farmers in County Galway

Paperwork / Certification for Recyclable Loads & National TFS Office

Recycling certificates are requested and kept on file for most of the companies who take recyclable material from our site. These are requested on a monthly basis and are all on file in our offices. Details of all individual transactions of waste going off site are also available from our offices and paperwork for any individual load can be viewed on request. This paperwork includes weighbridge tickets, laydown / transfer documents and the annex vii forms which are required to accompany each waste movement. Loading pictures are normally available for materials loaded into containers for the export markets.

Barna Recycling are registered as a shipper of green list material with the TFS office in Dublin and our broker's registration number for 2017 / 2018 currently is:-

IRE/G032/19 which is valid until 31st December 2019.

The National TFS Office monitor, track and inspect loads of waste / recyclables being shipped from Ireland to destinations worldwide. This process has been welcomed by Barna Recycling and ensures that everyone who we sell material to are also registered as an approved broker with the TFS office and that the end destinations which they use for our material are also registered and checked by the National TFS Office. The process of checking random containers at ports in Ireland means it is essential that we produce a good quality material via our picking station to ensure inspections are passed and no materials are rejected.

The introduction of the National TFS Office has regulated the business of shipping recyclable material and everyone now works to the same process.

All outlets used by Barna Recycling are registered with the National TFS Office and therefore ensures all our material is looked after properly and by reputable companies.

As part of our internal procedures we do not sell material to any destination / broker unless that person makes an effort to personally visit our facility. This is done for two reasons, one to ensure that they see the material they propose to purchase in person and can confirm they are happy with the quality on show and in the way the material is processed. Secondly this gives us a feel for the proposed partner and how they work. We do not ship to anyone who does not make the effort to visit the facility even if they offer the best price and we feel this is the best way to ensure long term sustained partners, reliable payment and the avoidance of using companies who may not look after the material in a proper manner.

3.0 Actual & Projected Waste Quantities

The following are our projected waste quantities for next year:

Table 3.0.1 outlines some projected waste quantities for the next reporting year and onwards.

Table 3.0.1: Actual and Projected Waste Quantities

WASTE TYPE		TONNES P				
	2006	2007	2008	2009	2010	2011
Household	29328.22	28840.92	18539.17	22356.82	19,140.78	18,335.45
Commercial	16095.29	22150.64	26433.11	12905.46	11,613.86	14,637.36
Construction and Demolition	6234.14	5988.48	2729.37	1202.76	1,192.84	804.43
Others	33,489.19	35625.35	35784.14	33288.99	33,117.07	34,936.09
Biowaste	0	1525.88	1674.44	1,960.91	4,303.09	6,469.91
Total	85146.84	94,131.27	85,160.23	71,714.94	69,367.64	75,183.24

WASTE TYPE		TONNES PER ANNUM										
	2012	2013	2014	2015	2016	2017	2018					
Household	16973.75	27,986.41	36,866.37	32621.73	32337.35	30,318.22	30,500					
Commercial	12065.34	13,573.78	14988.20	18701.08	18312.97	25,021.01	25,000					
Construction and Demolition	1667.91	1,443.15	1068.71	2076.32	2927.34	2769.47	3,000					
Others	36,828.40	36,175.50	36,362.38	39,472.23	38,513.46	31,670.38	32,000					
Biowaste	4282.78	10,224.03	14,788.91	16,274.27	14083.00	15,483.71	16,500					
Total	71,818.18	89,402.87	104,074.57	109,145.63	106,174.12	105,262.79	107,000					

4. Site Infrastructure and Operations

4.1 Existing Facility & Operations

This section of the report is designed to give the reader an overview of our facility in relation to how it is set-up, the plant and machinery available to us, the facilities we have on site and our key operational areas. Therefore the infrastructure and set-up of the existing Barna Recycling facility is outlined below. The site has been continually developed over the past 15 years and at the end of the current reporting period was laid out as follows:

• Site Accommodations:

- 1) Canteens all staff both in the yard areas and office areas have their own canteens equipped with modern electrical equipment, hot and cold water and changing facilities
- 2) Administration Offices comprises of a weighbridge office adjacent to our two weighbridges supported by a larger administration office building housing administration staff including Facility Manager, Operations Manager, Transport Manager and all Accounts and Sales staff, meeting rooms and archive storage. The main reception area is located within this office.
- 3) Toilet Facilities toilet facilities in place at the front and rear of the facility
- **4) Changing Facilities** locker rooms, changing & washing facilities available for all staff on site both in Operations and Administration. There is a specific changing room allocated to the staff who work in the composting facility. These facilities were all upgraded during this reporting period.
- 5) First Aid Room fully stocked first aid room and trained first aiders at the site.

Site Infrastructure

- Two calibrated weighbridges (weigh in / weight out) system at the entrance of the facility which are equipped with weighbridge software
- The main transfer building incorporates several areas for:

Section 1: NON RECOVERABLE BULKY WASTE STORAGE

Section 2: MIXED RECYCLABLES STORAGE (pre-picking station)

Section 3: PICKING STATION

Section 4: BALING AREA

Section 5: WASTE OUARANTINE AREA

Section 6: BACK UP BALING AREA

Section 7: PAPER SHREDDING AREA

Section 8: MSW MECHANICAL TREATMENT AREA

Section 9: COMPOSTING BUILDING

Section 10: CIVIC AMENITY SITE

Section 11: WRAPPED BALE STORAGE AREA

Section 12: WEIGHBRIDGE OFFICE & ENTRACE

Section 13: ADMINISTRATION OFFICE

Section 14: GARAGE AND MAINTENANCE BUILDING

- The transfer building is equipped with adequate floor space to cope with the volume of waste and/or recyclables being handled at the facility. The building is split into two imaginary halves one side which handles the mixed general (non recoverable) waste from skips and the other side of the building is used for managing the recyclable materials. Mixed general waste from skips are sorted by hand and grab machine or loading shovel to ensure any materials that can be recovered are salvaged before the bulky or non-recoverable material is sent to landfill or for baling / wrapping. In normal circumstances the floor is cleared at the end of each working day.
- Our picking station is equipped at the front end with ballistic separators which pre-sort the
 material before manual sorting. Once through the front end of the process material is manually
 sorted by our operators who use positive and negative picking to sort material by grade. The
 picking process is supported by a magnet and edicurrent for sorting metal / aluminium. In 2014
 an optical sorting machine which assists with the automated sorting of paper products was
 added to the line. Material sorted from the picking station is then baled directly in the adjacent
 balers.
- The MSW Mechanical Treatment Process for baling / wrapping waste is set-up in the new part of our site and allows us the ability to produce a mechanically treated MSW product for export to recovery outlets. This area is equipped with adequate storage space for the loose MSW, it has a shredder for shredding the MSW and removing metal, a trommel screen to remove organic fines and then a combined baling and wrapping machine to wrap the end produce ready for export.
- Wrapped Bale Storage Area was constructed during this reporting period which allows for the storage of up to 4500 bales of wrapped MSW product in the open yard area of the site
- End product storage shed an enclosed building for storing products which are produced via our picking station which keeps them dry and in the best possible condition for selling to potential buyers. A new roof was constructed during 2014 which links the baling area with the storage area and means this entire operation now takes place inside under roof.
- Maintenance building and garage for carrying out maintenance work and general plant / fleet repairs. This section has full time on site mechanics, fitters and technical support teams. This area is also kitted with a bunded oil storage area for fresh and used oil.
- Civic Amenity Site located at the front of our facility next to our weighbridge office. The site is staffed during operational hours and allows the segregation of general waste, mixed recyclables, cardboard, glass, timber, stones, metal, clothes, batteries and all types of white goods and electrical items for members of the public.
- Composting Building for the acceptance and processing of biodegradable material to a European Standard. This process is equipped with fans, scrubbers, curtains, air supplies and mobile plant to ensure composting can be produced at the back end of the facility. During 2016 new tunnels were installed at the front end of our process to assist with both odour management and the general processing of the material itself.
- Wash Bay this area is used for the washing of all trucks and mobile fleet, mobile plant and machinery within the facility and other equipment (such as bins / skips).

- Dock loading bays the facility is equipped with loading bays which allow containers to be backed up to the entrance of our storage shed for loading. This has almost halved the loading times of containers at the site and significantly reduced litter at this area of the site
- Shed on permitted area of the site which as yet is not in use but a business plan will be developed for this in 2018.

This current set-up allows us to accept and process the volumes and types of waste / recycling that we currently collect. The plant and equipment we have in place is adequate to support these processes and we have a good quality support staff in place to ensure our operations are able to be carried out as required. Changes to the facility and new investments are always being considered but the current site is equipped with the technology and equipment we require to manage the materials we have today.

Environmental Management System (EMS)

The operation of our facility is supported by our EMS system as required by our EPA licence. The documents within our EMS outline how we carry out our daily operations and contains the forms used to record information from our processes / activities. This system is constantly under review and every document is fully reviewed on at least an annual basis.

This system is ISO 14001 accredited by the NQA. Barna Recycling were audited again during 2017 and successfully retained the ISO14001 certification for another year. Details of the audit result are available on request from Barna Recycling.

Significant Change to EMS

During 2014 there was a significant change to our EMS which involved the incorporation of all procedures required to operate our new composting facility into the existing EMS. These procedures were all written specifically for our own composting facility and include forms for recording all necessary records within the facility. All composting procedures can be uniquely identified by the 'COM' in the filename of the procedure. The Compost Manager and Facility Manager are responsible for the maintenance and implementation of these new procedures.

In 2016 and 2017 a full review of all composting documents was carried out as a result of a significant change in the process with the construction of the new tunnels. No new documents were added but the changes involved amendments to existing procedures.

The following details a complete list of the names / titles of all procedures and documents used at the facility at the end of 2016. This is included to give the reader of this report an overview of the policies / procedures we use internally and to provide evidence that an adequate and detailed EMS system is in place:

4.1 Environmental Management System

BARNA WASTE - EMS Contents Listing

1 DW/EMC/001	EMC Manual
1. BW/EMS/001	E.M.S. Manual
2. BW/EMS/002	Environmental Policy
3. BW/EMS/003	I.E.R
4. BW/EMS/004	Document Control Procedure
5. BW/EMS/005	Document Issuance Form
6. BW/EMS/006	Document Review Form
7. BW/EMS/007	Programme Review Form
8. BW/EMS/008	Aspects Register
9. BW/EMS/009	Records Management Procedure
10. BW/EMS/010	Env. Management Rep. Job Description
11. BW/EMS/011	Management Review Schedule
12. BW/EMS/012	Revision History Form
13. BW/EMS/013	Training Course Attendance Record
14. BW/EMS/014	Emergency Preparedness & Response Proc.
15. BW/EMS/015	Communications Procedure
16. BW/EMS/016	Waste Handling & Disposal Procedure
17. BW/EMS/017	Accident Report Form
18. BW/EMS/018	Health and Safety Equipment Issue Form
19. BW/EMS/019	Training Procedure
20. BW/EMS/020	OBSOLETE - Env. Records Index
21. BW/EMS/021	Employee Env. Feedback Form
22. BW/EMS/022	Approved Supplier Control Procedure
23. BW/EMS/023	OBSOLETE – Approved Supplier List
24. BW/EMS/024	EMS Programme List
25. BW/EMS/025	EMS Programme Management Procedure
26. BW/EMS/026	Emergency Response Team Seniority List
27. BW/EMS/027	Register of Environmental Legislation
(NOTE:- The above document is	
28. BW/EMS/028	Register of Legislation Management Proc.
29. BW/EMS/029	EMS Audit Procedure
30. BW/EMS/030	Internal Audit Report Form
31. BW/EMS/031	Non Conformance Form
32. BW/EMS/032	Employee Details Form
33. BW/EMS/033	EMS Audit Schedule
34. BW/EMS/034	Emergency Contacts Listing
35. BW/EMS/035	Safety Statement Declaration Form
36. BW/EMS/036	Internal Environmental Checklist
37. BW/Ops/001	Organisation Chart
38. BW/Ops/002	Monitoring and Recording Schedule
39. BW Ops/003	Foul Water Discharge Meter Reading Form
40. BW/Ops/004	Waste Inspection Check Sheet
41. BW/Ops/005	Waste Processing Procedure
42. BW/Ops/006	Housekeeping/Nuisance Inspection Procedure
43. BW/Ops/007	Housekeeping/Nuisance Check Sheet
44. BW/Ops/008	General Monitoring Procedure
45. BW/Ops/009	Waste Profiling Form
46. BW/Ops/010	OBSOLETE – Bund Testing Results Form
47. BW/Ops/011	OBSOLETE - Bund Integrity Test Procedure
48. BW/Ops/012	Drainage, Bunds & Interceptor Check Sheet
49. BW/Ops/013	Env. Incident Investigation Form
50. BW/Ops/014	Env. Incident Investigation & Reporting Proc.
51. BW/Ops/015	Env. Complaints Form
52. BW/Ops/016	Env. Non-Compliance Form
53. BW/Ops/017	Env. Non-Compliance Procedure
54. BW/Ops/018	Residuals Management Procedure
55. BW/Ops/019	Incoming Checklist
56. BW/Ops/020	Outgoing Checklist
57. BW/Ops/021	Equipment Maintenance Procedure
1	1 1

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58. BW/Ops/022 Equipment Maintenance Schedule/Checklist

59. BW/Ops/023 Picking Station Procedure

60. BW/Ops/024 Obsolete - Boston Scientific Procedure

61. BW/Ops/025 Obsolete - Medtronic AVE Materials Procedure
62. BW/Ops/026 Toolbox Training Document for Forklift Safety
63. BW/Ops/027 BBT Battery Charging (Health and Safety) Procedure

63. BW/Ops/027 BBT Battery Charging (Health and Safety) Procedure
64. BW/Ops/028 Weekly Preoperational Checklist for Excavator Grab
65. BW/Ops/029 Weekly Preoperational Checklist for Forklifts
66. BW/Ops/030 Daily Preoperational Checklist for Loading Shovels

67. BW/Ops/031 BBT Noise Health and Safety Policy

68. BW/Ops/032 Permit to Dig Form

69. BW/Ops/033 Manual Handling Policy Procedure

70. BW/Ops/034 BBT Composting Odour Management Procedure 71. BW/Ops/035 Barna Waste Construction Works Safety Checklist

72. BW/Ops/036 Number to be re-used no document

73. BW/Ops/037
 74. BW/Ops/038
 75. BW/Ops/039
 76. BW/Ops/040
 77. BW/Ops/041
 78. Barna Waste Facility Health and Safety Guidelines OBSOLETE - Barna Waste Fire Drill Guidelines Parna Waste Weekly Fire Equipment Checksheet Barna Waste First Aid Equipment Checklist Barna Waste Weekly Health and Safety Checklist

78. BW/Ops/042 Hot Works Permit Form
79. BW/Ops/043 Hot Works Procedure
80. BW/Ops/044 Machine – Permit to Work Form

81. BW/Ops/045
Still to be used missed in error
82. BW/Ops/046
Health and Safety Records Index

83. BW/Ops/047 Induction List for Visitors to Barna Waste 84. BW/Ops/048 Composting Waste Acceptance Form 85. BW/Ops/049 Compost Processing Procedure

86. BW/Ops/050 Procedure for Handling a Rejected Load of SRF

87. BW/TRA/001 Training Versatility Chart 88. BW/TRA/002 BW Induction Process

89. BW/TRA/003 OBSOLETE - Employee Roll Call Listing
90. BW/TRA/004 OBSOLETE - Approved Forklift Drivers Listing
91. BW/TRA/005 Bin Lorry Lifting Equipment Training Procedure

92. BW/TRA/006 Health & Safety Equipment - Ear Muffs Fitting Instructions 93. BW/TRA/007 Health & Safety Equipment - Foam Plugs Fitting Instructions

Barna Compost – EMS Procedure Contents

94. BW/COM/001 Feedstock Acceptance Procedures

95. BW/COM/002 Feedstock Supply Contact

96. BW/COM/003 Guide to Barna Compost Acceptable Waste Types

97. BW/COM/004 Rejected Waste Form (Weighbridge)
98. BW/COM/005 Barna Compost Material Delivery Form

99. BW/COM/006 Waste Inspection Log & Rejection Form (**OBSOLETE**)

100. BW/COM/007 Procedures in Relation to Transformation Parameter Achievement

101. BW/COM/008 Batch Record Document

102. BW/COM/009 Particle Size Record Sheet (**OBSOLETE**)

103. BW/COM/010 Super Batch Record Sheet

104. BW/COM/011 Barna Waste Pasteurisation Procedure

BW/COM/012 Not currently in use BW/COM/013 Not currently in use

105. BW/COM/014 Temperature Failure Investigation 106. BW/COM/015 Barna Compost Sampling Procedures

107. BW/COM/016Sampling Record E. COLI108. BW/COM/017Sampling Record Salmonella109. BW/COM/018Microbial Failure Procedure

110. BW/COM/019 Microbial Sampling Failure Record Sheet 111. BW/COM/020 Cleaning and Hygiene Procedures Personnel

112. BW/COM/021 Hygiene Inspection Sheet

113. BW/COM/022 Cleaning and Hygiene Procedures

114. BW/COM/023 Vehicles Exiting via Emergency Exit Recording Sheet

115. BW/COM/024 Cleaning in Clean Area Record Sheet

116. BW/COM/025 Procedures to Prevent Re-contamination of Compost 117. BW/COM/026 Barna Compost Vermin and Pest Control Not currently in use **BW/COM/027** Barna Compost Records Maintenance & Calibration 118. BW/COM/028 **BW/COM/029** Not currently in use 119. BW/COM/030 Cold Spots Check Record Sheet Maintenance Check Record Sheet 120. BW/COM/031 Compost Dispatch Procedure 121. BW/COM/032 Compost Dispatch Record Sheet 122. BW/COM/033 Not currently in use BW/COM/034 **BW/COM/035** Not currently in use 123. BW/COM/036 **HACCP** Audit Procedure 124. BW/COM/037 Barna Compost Internal Audit Checklist Barna Compost Training Procedure 125. BW/COM/038 126. BW/COM/039 Record of Training by Barna Compost Personnel BW/COM/040 Not currently in use 127. BW/COM/041 Barna Compost HACCP Vehicles Exiting via Clean Area Recording Sheet 128. BW/COM/042 129. BW/COM/043 Compost Probe Location Map Dataset Commercial System - Placing an Account On Off Hold (Rev 0) 130. BR-SAL-004 131. BR-SAL-005 Creating a Ring In Collection (REV 0) 132. BR-SAL-005 Creating a Ring In Collection (REV 0)

4.3. Plant & Machinery / Road Fleet

This section of the report details the plant and equipment available for use both on site and in relation to the collection of waste / recyclables. The plant and fleet are under constant review to ensure they meet the requirements of our business.

The current plant either in use or available for use on site consists of the following which demonstrates that we have the appropriate back-up equipment in place should any of the day to day equipment we have on site breaks down.

This is the current list of equipment for the end of the 2017 reporting period:-

- 5 x large loading shovels for managing waste in the transfer area and composting building
- 2 x mini loading shovels for managing waste in the picking station bays or main transfer station
- 2 x track machine excavators
- 5 x Liebherr grab machines for loading trucks and managing movements of waste
- 7 x forklifts
- 2 x Teleporters
- 1 x Finger Screener
- 2 x mobile trommels
- 1 x Extec Stone Shredder/Crusher
- 1 x Pre Shredder / Waste Reducing machine
- 1 x Shredder fitted with magnetic separator
- 2 x EXCEL Baler (1 with bottle piercer)
- 1 x Harris Twin-Ram Baler
- 2 x Paper Shredding machines
- 3 x Picking Station Conveyers and
- 6 x Material Bunkers on Picking Station
- 2 x Ballistic Separating Machines
- 1 x Mobile road sweeper
- 1 x Fire Engine
- 1 x Diesel Tanker (used to fill all plant / machinery on site)

- 2 x Weighbridges with Computer system and software
- 1 x Mobile Power Washer
- 1 x Hoist
- 4 x 45ft storage containers
- 1 x Toyota Clamp Loading Forklift
- 1 x Mitsubishi Clamp Loading Forklift
- 1 x Swarf Metal Baler / Briquetter
- 1 x Compost Turning Mobile Unit
- 1 x Titech Optical Sorting Machine
- 18 x Calibrated Temperature Probes
- 1 x Baler & Wrap Machine
- 1 x Debagger on Picking Station
- 2 x Dock Loading Bays for Containers

The above list of plant / machinery provides us with the equipment to manage our busy waste transfer station. This is supported with a full fleet of collection vehicles for different types of collections such a standard RCV's, hook bin lorries, curtainsiders, vans & skip lorries. The above list of equipment is not in permanent use 100% of the time and some of the equipment acts as backup in times where we suffer breakdowns to ensure where possible there is no impact on production or collections. A Transport Manager is in place to ensure the collection fleet are well maintained and our Operations Manager is responsible for ensuring maintenance and proper use of the machinery within the transfer station. The management team are backed up by onsite mechanics and fitters who try to repair most defects in house.

A washing programme for all trucks, machinery and equipment is in place to ensure the appearance of our equipment / fleet is always of a high standard. Only in cases of a serious malfunction would our collections or production be seriously affected. Barna Recycling try to invest some of our annual budget each year towards the upgrading of the above list of plant and equipment.

Our main priorities at present are to ensure that we develop our twin pack collection vehicles to offer us the ability to collect both waste and recyclable material from our customers on the same day thus reducing collections from weekly to fortnightly and reducing our costs and carbon footprint.

In addition last year we identified that me must improve the efficiency of our pay by weight through to invoicing structure to allow us access to good quality data and streamline this process. Investment in new systems for this started in 2014 and has continued through 2017 with the incorporation of data systems (eg. MOBA) on the backs of most of our trucks and introduction of handheld devices for our drivers and helpers.

A review of the fleet and machinery in terms of age is also underway and a plan is in place to gradually reduce the age of the equipment over the next few years on a phased approach.

For the moment we are comfortable that the above list of machinery / plant is able to manage the volumes of waste we are collecting and processing while providing the appropriate level of backup in the case of breakdown.

4.3. Proposed Future Developments / Specified Engineering Works

The Barna Recycling Facility in Carrowbrowne has been in an almost constant state of change over the past 15 years. We want the facility to continually develop to meet the demands of our customers and the ever changing legislation that affects us as well as being responsive to new technologies which come onto the market.

2017 Planned Developments (Update on Progress)

During the current reporting period the company again made changes to improve the site and the following is a summary of the main infrastructural changes:-

Composting

During this reporting period we made a significant improvement in the compost process by improving the segregation of the clean and dirty areas on site. Although the Department of Agriculture Fisheries and the Marine were happy and had approved the process as it was we felt it was time to complete the segregation and therefore we implemented this during 2017. The segregation of the two areas is now complete floor to ceiling where before it was only an 8ft wall that separated the two areas. This upgrade is permanent and dramatically reduces any risk of cross contamination between both areas.

Maintenance

The new site garage is now fully operational on site with the ability to carry out our own repairs and tests on all our vehicles. The garage is manned by a team of mechanics who can be on site 24 hours as required. The garage allows us to ensure the fleet is always in compliance with RSA requirements and carry out repairs in a timely manner to get fleet on the road. This garage is not part of the licenced operation.

• Site Walkways

During 2017 we also made significant changes and improvements in the site walkways to improve pedestrian access throughout the facility. This process involved the construction of new walkways in some areas and the widening of walkways in other areas. Part of this process also included a maintenance programme on the walkways so they are kept clear, clean and tidy at all times.

• Skip Office

During this reporting period we also put in place a new office on site dedicated to managing our skip business. This office had been part of the weighbridge office but in order to centralise and manage all of our skip business from the Galway Facility an office was put on site to manage this process. This skips department is now set up with staff dedicated to specific areas within the region and all the work is done via this new office.

• Archive Room

Also in 2017 significant upgrades were made to the archive room on site to allow us to better store and manage our archived company records. This archive room was completely cleared and cleaned, new floor put down and new fresh racking was constructed to allow for each departments files to be sorted and stored in a controlled manner. This archive room is located in the main administration office.

2018 Proposed Developments

The company are committed to continuous improvement of the site and therefore at the beginning of each reporting year we identify areas on the site which are important to provide investment in and ensure they improve and progress. During discussions for 2018 the following have been set as priorities for improvement:-

- 1) Investigate the possibility of constructing and implementing an MBT process on site. This will take significant investment and will require EPA approval in advance of the project. It is hoped sometime in Q1 or Q2 2018 that a proposal will be submitted to the EPA for there review and approval. We believe that investing in an MBT process on site will really enhance our processing capabilities and the future of the company.
- 2) Develop a business plan for the empty constructed shed outside of the current licenced site and work to have this site developed and included within the scope of our licence by the end of 2018. This had been planned for 2017 but other priorities meant it was delayed to this new year. This project will also take into account new storage bays for the outside storage of some materials.
- 3) Due to the number of staff currently within the administration offices it will be essential during 2018 to review car parking on site and make some improvements for staff and visitors and this will be reviewed most likely in the second half of this new reporting year.
- 4) We also plan to review and potentially make improvements in the processing capability of the site picking station however due to the current downturn on the worldwide recycling markets which we are experiencing in Q4 2017 and Q1 2018 this will be discussed in more detail before being finalised but at present it is in the plans for this new year.

5. Complaints Summary

All internal environmental complaints are documented through the Environmental Management System (EMS) procedures on the following documents:

• Environmental Complaints Form (BW-OPS-015)

Any environmental non-compliances are recorded and documented by the EPA via audits / site visits and are the responsibility of the Management Team to fix and ensure the appropriate corrective and preventive actions are put in place.

Internal audits are also carried out as part of our ISO 14001 certification and continual improvement plans. Internal audits are carried out by the Facility Manager who is qualified to conduct them.

Results of these are recorded on:

• Environmental Non-Compliances Form (BW-OPS-016)

All results are on file and available for review via the Facility Manager.

All documented Complaint or Non Compliances are recorded and kept on file as part of the EMS System and a file maintained of all open and closed records.

Any complaints received by the EPA will be documented on the EDEN online management system and records of those will be kept on that system only.

Any complaints received will immediately be assigned to a member of the management team to find a solution / corrective action. They will be taken seriously and dealt with as a priority.

In relation to the 2017 AER we can confirm the following:-

- No official complaints of an Environmental nature were received directly by the company.
- The EPA also had no complaints received during this reporting period about our facility or collection activities.
- The NWCPO who manage our collection permit also recorded no complaints against the company during 2017.

The fact that no complaints were received by any of the enforcement authorities about our facility during 2017 emphasises the success of our odour management process implemented in the composting facility during 2016 and our commitment to ensuring we do things properly in terms of how we collect, manage, process and transfer our products.

We are however committed to ensure any complaints that are received are dealt with appropriately in terms of priority and the type of action taken in each circumstance.

5.1 Environmental Incidents

Barna Recycling are responsible under the Agencies new guidance in relation to Environmental Incidents to notify the Agency immediately or any serious occurrence on site or the excedance of licence limits or pre-defined trigger levels as a result of environmental monitoring.

There were no notifiable incidents during this reporting period of 2017.

Barna Recycling have completed the EPA's published AER template in relation to summarising complaints and incidents and this is attached as Appendix A of this report.

6. Nuisance and Emission Controls

Nuisance inspections are carried out on a daily basis by the Facility Manager or a delegate. Results are logged and are available for review at all times. The purpose of these nuisance checks is to verify that there are no issues at the facility with regards to vermin, birds, flies, dust, housekeeping or odours.

We recently (during 2014) added waste stockpiles as a check on the daily nuisance processes. This was done with a view to ensuring stock was reviewed on a daily basis to maintain a focus on moving material off site as soon as possible and not allowing any materials to accumulate in excessive quantities and if they did they immediately came into focus.

Odour checks are also carried out as an individual assessment using the Agencies own guidance and these factor in all of our nearest sensitive receptors both upwind and downwind of the facility namely domestic dwellings or commercial premises. The method used is a 5 minute sniff test at these predetermined locations on a daily basis.

We feel that given we have a composting facility on site it is necessary to carry out these checks this frequently. Results for odour checks during 2017 did not highlight any major issues in relation to odour which is of primary importance due to the issues back in 2015 and clearly demonstrates the success of the new process we implemented in the composting building for managing the odours.

The other parameters such as dust on site we had no issues to report. During periods of dry weather on site there can always be a level of dust on site but we have misting equipment installed internally and water dosing pumps on our approach roads to control dust levels as required. As a results dust monitoring reports highlighted no dust issues on site during this reporting period of 2017. Daily nuisance checks are always valuable to highlight the need for having pumps on / off during any period and these daily checks will continue.

Vermin, birds and flies are monitored internally on a daily basis and again no major issues were evident during this reporting period. Barna Recycling partner with Ecolab is relation to the management of all types of vermin, birds and flies and have active controls on site for rats and mice as well as flies. There has been no need to put controls in place in relation to birds on site as all sheds are covered and the nuisance of birds has never been an issue. The control of rats and flies and carried out on contracts. The vermin (rats) are checked on a fortnightly basis by an external contractor and flies are sprayed (compost area only) up to five times per annum requested by our Compost Manager as required.

All Ecolab reports are on file and up to date to show their own monitoring results.

Due to insurance requirements as well as our own Waste Licence control of stockpiles has become a very important part of our business and that is why it now forms part of our nuisance checks. During 2016 there was a period where larger stocks of general waste were stored on site than would have been permitted and this was due to limited landfill availability and the exports for mechanically treated MSW also being unavailable for a period during the year. This was highlighted during an Agency inspection as well during that year. The stockpiling of waste is not a normal practice and during 2017 we were almost always able to maintain the stock levels to ensure they were within our waste storage plan. The only exception to this rule is when we are closely approaching the date to ship a boat load of MSW from Galway Docks which may demand in the days prior to loading enough stock of loose waste is on site to ensure the boat is filled to capacity.

In summary the nuisance checks still play a valuable role in the day to day monitoring of our facility and they are carried out properly to ensure we get the full benefit from them. In general the site is running well and can be considered on the basis of the daily results not to be causing any major nuisance to our neighbours or the environment and this opinion is supported by the fact there are currently no complaints logged against the company.

7. Environmental Monitoring

The required monitoring programme at the Barna Recycling Facility is set out in Schedule E of the Waste Licence. The reporting frequencies of reporting environmental monitoring data are indicated in Schedule C and D of the waste licence. The following monitoring was carried out for the reporting period and all are as required by the schedule declared in the licence:

Surface & Foul Water Monitoring (Quarterly)

During 2017 reporting period sampling was carried out as follows:

- Surface & Foul Water Monitoring carried out by Complete Lab Solutions on 22/02/2017
- Surface & Foul Water Monitoring carried out by Complete Lab Solutions on 05/05/2017
- Surface & Foul Water Monitoring carried out by Complete Lab Solutions on 04/08/2017
- Surface & Foul Water Monitoring carried out by Complete Lab Solutions on 26/10/2017

Dust Monitoring (three times per year)

During the 2017 reporting period sampling was carried out as follows:

- Dust Monitoring was carried out by Complete Lab Solutions
- 3 times per annum must be twice from May to September
- Dust pots are left on site by contractor for a period of approximately 30 days as per licence
- The sampling dates for 2017 were as follows:-

Round 1: Monday 17/07/2017 to Thursday 17/08/2017
Round 2: Friday 15/09/2017 to Monday 16/10/2017
Round 3: Monday 16/10/2017 to Thursday 16/11/2017

Noise Monitoring (annually)

During 2017 reporting period sampling was carried out as follows:

- Noise Monitoring was carried out by Complete Laboratory Solutions
- 2017 testing completed on 24/03/2017

All monitoring was carried out as per the requirements of our EPA waste licence.

Complete Laboratory Solutions were employed as part of the Environmental Management Team to carry out and report on all monitoring requirements for 2017. They won this business through a tender selection process which is run to identify the best possible company to partner with in relation to environmental monitoring. We have on file all the relevant names and qualifications held by the people carrying out the testing on our behalf.

The tender process is coordinated by the Facility Manager and he makes the decision on the awarding of the contracts. Barna Recycling recognise the importance of appointing the best possible contractor to ensure the environmental monitoring programme is carried out on schedule using the proper equipment / methods and that the reports supplied for submission to the EPA are of a high standard.

7.1. Summary of Monitoring Results

Environmental monitoring results are sent to the Agency within 10 days of quarter end for water monitoring and as soon as results are available for both dust and noise monitoring. All results are now uploaded via the Agencies online EDEN system which allows for the notification of any incidents or general issues in relation to the monitoring results.

A summary of the monitoring results for the current reporting period of 2017 have been transferred into the Agencies own AER template for monitoring results for all parameters (water, dust and noise) and these are included in that format as appendix A of this report.

I can confirm for summary purposes that there were no issues or incidents during this reporting period on any aspect of the monitoring results and for all parameters tested results were within either licence requirement or below agreed trigger levels. No investigations or corrective actions were required during 2017.

A snapshot of the results over the last rounds of sampling is included below but can also be seen in Appendix A as part of the EPA AER template:-

SURFACE WATER

Parameter	Warning (lower) Trigger Level	Action (Upper) Trigger Level	Q2 '16 Result	Q3 '16 Result	Q4 '16 Result	Q1 '17 Result	Q2 ' 17 Result	Q3 ' 17 Result	Q4 ' 17 Result
Fats, Oils & Greases (mg/l)	12	15	<5	<5	<5	<5	<5	<5	6
pH (pH units)	6-8	6-9	7.3	7.2	7.3	6	7.4	7.9	7.2
Ammonium (mg/l)	0.5	1	0.121	0.115	0.01	0.019	0.01	0.08	0.01
Mineral Oil (mg/l)	2.5	5	0.065	0.065	0.065	0.065	0.0325	0.0130	0.065
BOD	2	25 (per EPA licence)	<1	<1	<1	<1	2	1	2
Suspended Solids	15	35 (as per EPA licence)	10	<2	14	5.5	5	4	5

FOUL WATER

Parameter	Emission Limit Value (per EPA licence)	Q2 '16 Result	Q3 '16 Result	Q4 '16 Result	Q1 '17 Result	Q2 '17 Result	Q3 '17 Result	Q4 '17 Result
Fats, Oils & Greases (mg/l)	100	<5	<5	<5	<5	6	6	15
Ammonium (mg/l)	Not specified	0.067	< 0.005	0.019	0.005	0.626	0.020	< 0.005
Sulphate	400	7.78	30.1	<5	5.83	13	<5	<5
COD	1000	105	41	61	350	404	45	42
BOD	350	3	<1	<1	189	7	4	8
Suspended Solids	400	121	13	26	20	335	53	19

DUST

Parameter	Emission	Period of	D1	D2	D3	D4	Comment / Trend
	Limit Value	Monitoring	Result	Result	Result	Result	
DUST	350	Monday 17/07/2017	2015:	2015:	2015:	2015:	All results within
		to Thursday	30	37	206	59	the ELV set in the
		17/08/2017					licence
			2016:	2016:	2016:	2016:	
			49	70	95	57	
			2017:	2017:	2017:	2017:	
			178	82	54	127	
DUST	350	Friday 15/09/2017 to	2015:	2015:	2015:	2015:	All results within
		Monday 16/10/2017	51	231	30	55	the ELV set in the
							licence
			2016:	2016:	2016:	2016:	
			66	94	61	77	
			2017:	2017:	2017:	2017:	
			49	58	64	57	
DUST	350	Monday 16/10/2017	2015:	2015:	2015:	2015:	All results within
		to Thursday	78	64	61	58	the ELV set in the
		16/11/2017					licence
			2016:	2016:	2016:	2016:	
			82	98	5	99	
			2017:	2017:	2017:	2017:	
			118	41	85	146	

7.2. Compost Monitoring Results

The composting process has it's own requirements for monitoring on site and that involves emissions as well as on the compost product itself. In relation to the compost product as already outlined in the report the following records are available on request in relation to our composting for each individual batch of product:

- E-Coli Test Results
- F-Coli Test Results
- Salmonella Test Results
- AT4 Test Results
- Trace Element (Compost Quality) Test Results

The above are all requirements we must carry out for either the EPA and / or Department of Agriculture Fisheries and the Marine (DAFM). In addition to the above we also carry out tests for the following:

- Nutrition Levels (NPK) on Compost
- PAH / PHP Levels

Any issues with monitoring results for compost must immediately be notified to the Agency and the Department and those may result in a rejected batch of compost.

During this reporting period there were one incident in relation to a composting failure. The rejected or failed composting batch during this reporting period due to detection of ECOLI in superbatch SB12092017. This was the first and only incident where a fail was detected. This batch was notified to the DAFM Officials in November who advised to return the batch to the dirty area for re-pasteurisation. There have been no issues since this with any other batches in the process and once re-processed the batch passed all requirements. The cause was determined to be an untrained member of staff not taking samples correctly and therefore this process has been changed and only the Compost Manager or approved deputy will take samples moving forward. A corrective action has been noted for this batch and DAFM were satisfied with the resolution.

All compost testing results are checked during site audits by both the Agency and the Department and all sampling is carried out by a DAFM approved laboratory.

Most importantly in relation to monitoring our internal results show that the scrubber system on site is adequately doing it's job. We use a Kitagawa monitoring system to measure the levels of Ammonia, Hydrogen Sulphide and Mercaptans from the system and none of the monitoring results for 2017 highlighted an exceedance of the limits specified in our EPA licence. Therefore from the results recorded it can be assumed that the scrubber system on site is performing it's duty adequately.

7.3. Bio Aerosol Air Monitoring

As part of the Agencies new air monitoring requirements Barna Recycling carried out Bio Aerosol monitoring during 2017 to meet these requirements. This monitoring was carried out by Anua Environmental Consultants who are part of the Board Na Mona group on the 18th September 2017.

This monitoring was carried out at 3 locations on site taking note to ensure that both upwind and downwind readings were taken. Total Bacteria was detected at all monitoring locations with average concentrations ranging from >217cfu/m3 upwind, >257cfu/m3 downwind location 1 and >83cfu/m3 at downwind location 2. Aspergillus fumigatus was detected at all locations ranging from >3.5cfu/m3 upwind, >9cfu/m3 downwind locations.

The results reported for bio aerosols highlighted no issues at the facility in relation to the emission of bio aerosols as a result of our activities and readings were normal. There were no actions highlighted within the report and no recommendations for improvement by the sampling team once results were reviewed.

7.4. Monitoring Locations

A map of the monitoring locations at the site is attached as appendix D to this report as required by the Agency.

8.0. Foul Water Discharge

As required by schedule G of our EPA waste licence this section details the foul water emission levels for the current reporting period. Readings of foul water emissions are taken on a daily basis by the Facility Manager and results are logged and kept on file. Details of the volumes of surface water discharged during the reporting period are below.

Total wastewater discharged via FW1 for 2017 (approximately): 506,245 litres

These results are available for review on request and are recorded on a daily basis.

9. Resource and Energy Consumption Summary

The main resources consumed at the facility during the reporting period were electricity, diesel fuel and water. A summary of the significant resources consumed are tabulated below with a summary of the principal resource consumption.

Table 9.1: Principal Areas of Resource Consumption

Area of Use	Purpose	Principal Resource
		Consumed
Site Plant	Moving and processing of	Diesel, hydraulic oils
	wastes and our fleet of on the	
	road vehicles used for the	
	collection and disposal of	
	waste	
Site Operations	Road sweeper for	Water
	maintenance of road	
	surfaces and wash bay hose	
	for washing bins, trucks	
Odour Controls	Used on an as required basis	Composting
	and pumped into the	Scrubber System &
	scrubbers within the	Chemicals
	compost building	
Offices	Administration &	Electricity
	Management of the facility	
	usage of electricity for	
	computers, phones etc	

Table 9.2: Usage of Energy and Resources up to 31st December 2017

Resource	Consumption for Reporting Period
Odour Control Chemicals	2012: Approximately 60litres
	2013: Approximately 4,500 litres
	2014: Approximately 5,200 litres
	2015: Approximately 11,250 litres
	2016: Approximately 14,700 litres
	2017: Approximately 4,500 litres
Electricity	2017: 1,554,713 (KW)
	2016: 1,445,628 (KW)
	2015: 2,006,951 (KW)
	2014: 2,204,366 (KW)
	2013: 1,874,775 (KW)
	2012: 1,695,879 (KW)
	2011: 1,590,165 (KW)
	2010: 1,327,372 (KW)
	2009: 1,392,552 (KW)
	2008: 1,304,972 (KW)
	2007: 817,982 (KW)
	2006: 71,689 (KW)
	2005: 117,174 (KW)
	2004: 120,900 (KW)
Diesel Fuel	1,064,000 (litres approx)
Hydraulic Oils	12,800 (litres approx)

10. Tank, Pipeline and Bund Testing and Inspection Report

The underground drainage pipeline and tank network was surveyed during reporting period (2015) as per the requirement of our licence

The report concluded that the site drainage and tanks were overall in a good condition and no immediate actions were necessary throughout the site. Some minor intrusions on pipelines were found but no cracks or leaks and they have not recommended any immediate actions are required as a result of this survey.

Full copies of the report and DVD are on file and available from the Facility Manager on site.

A new survey will be carried out during 2018 as the requirement within our licence is to assess this every 3 years.

11. Financial Provision for the Facility

Barna Recycling are required by our licence to have an up to date financial provision in place which covers the cost of emergency clean up in the event of an environmental incident or restoration and aftercare work as a result of the company closing.

Financial provision for the company is outlined in our Environmental Liabilities Risk Assessment (ELRA) report combined with our Closure Restoration Aftercare Management Plan (CRAMP) which offers two separate calculations that combine to make up our Financial Provision.

These documents are produced following the guidance documents issued by the Agency and are submitted on an annual basis for approval prior to the financial bonds being put in place.

The Financial Provision for 2014 was:-	€1,202,202.12
The Financial Provision for 2015 was:-	€1,559,382.90
The Financial Provision for 2016 was:-	€1,566,670.00
The current Financial Provision for 2017 period was:-	€1,566,670.00

This document is due for review again later in 2018.

The above amounts are agreed with the Agency and reflect the provision put aside in the official bond document.

The full documents for ELRA / CRAMP / FP are available on request from Barna Recycling but the amounts above are already approved by the Agency and a new bond will be put in place a couple of months before the existing one expires.

For the 2017 reporting period we have completed the Agencies own AER template in relation to summarising the ELRA and Financial Provision data and this is included as part of appendix A of this report.

12. Management Structure at the Facility

An up to date company organisation chart is included in the company EMS system and a current copy is attached to this report as an appendix as required by our licence.

There were no major changes during 2017 reporting period and the Management Structure in the main has remained very similar to what was reported in 2016. The minor change is that we no longer have an Operations Manager in place and we have two site Supervisors within operations that report directly to the company Managing Director. This structure works well and has removed a layer of management within that department. There are no plans to replace the Operations Manager's position at this time. The Management Team all report directly into our Managing Director and the General Manager position which was in place during 2014 and 2015 is no longer required within the structure.

In relation to the Agencies main point of contact the Facility Manager (Campbell Finnie) remains the main point of contact for the Facility.

The Management Structure is outlined fully in Appendix E of the Report.

Any major changes in the Management Structure at the site will be advised to the agency immediately.

13. Public Information / Site Visits

All official records kept by Barna Recycling under the terms of our EPA licence or in relation to any of our activities from either the collection service or at the transfer station are available to any member of the public on request from our offices.

The Facility Manager is the contact person for any requests for information in relation to company records. Campbell Finnie is the current Facility Manager and can be contacted via the main office.

All reasonable requests by the public or any other interested party for information will be answered as quickly as possible.

Barna Recycling also operate an 'open door policy' in relation to our site and all customers, partners, members of the public or any interested party are welcome to visit our facility by arrangement to tour the facilities, carry out inspections or get answers to any issues they may have in relation to our operations / activities. This is available to small groups and adults only and must be organised in advance via the Facility Manager.

14. Environmental Management Plan & Targets / Objectives

The setting of targets and objectives for the company is very important. Not only is it a requirement of our licence but it ensures the site and the company are always working towards continuous improvement in all areas of the business. The targets set should be ideally out with the scope of our licence

The company recognise it is not only important to set these targets but to ensure during the reporting period it successfully works towards achieving the targets. As a result we produce a new Schedule of Targets and Objectives as part of our overall EMP and this is issued and re-defined on an annual basis to include both new targets which are relevant and also update on the success or otherwise of achieving the targets set for the previous reporting period.

It is the purpose of the Environmental Management Plan (EMP) to set out the procedures necessary to meet the licence conditions. Specifically, the EMP is designed to:

- 1) Detail the methods by which the objectives and targets will be achieved in the coming year and the designation of responsibility for targets
- 2) Any other items required by written guidance issued by the agency

Barna Recycling have produced a new EMP for 2018 which is a combined document along with our Schedule of Targets and Objectives. These updates are being submitted to the EPA alongside this Annual Environmental Report. The EMP details clearly the progress Barna Recycling has made in all areas during this reporting period and outlines the major tasks ahead during the new reporting period.

For full details of the EMP and Schedule of Targets & Objectives refer to appendix C.

15. AER / PRTR Emissions Data for 2017

The EPA requires Barna Recycling to complete an annual return called an AER / PRTR Emissions Data report where we declare both emissions data from our facility for the reporting period and declare tonnages of waste received at our facility. The tonnage data is already included in full in section two of this report.

This report is to be included in the company's full AER for the reporting period starting from 2008 onwards and therefore a full copy of the 2017 AER / PRTR Emissions Report Database is included in this report as appendix B.

16. Full PDF AER

The EPA's new reporting requirements introduced for 2008 have been designed to ensure public access to information is improved and therefore a full copy of this AER in PDF format will be updated to the Agency website as soon as the full report including the AER / PRTR is included which will be before end March 2018 as required by the Agency.

Access to the PDF version of the full report will then be available via the EPA website or on request directly to Barna Recycling.

Final Comments

This year's Annual Environmental Report has been compiled in very similar format as previous years to keep it consistent and we have also integrated the Agencies new Excel templates into the report.

All figures and updates quoted are specifically for the 2017 reporting period unless otherwise stated in the particular section of the report. All information listed in schedule G of our EPA Waste Licence WL106-2 has been included somewhere in this report.

The intention of this report is to give the reader a detailed outline of the activities carried out by Barna Recycling during 2017 in all areas of the business. We believe the report in its current format achieves this successfully. However Barna Recycling welcomes constructive feedback on this report from any source and will endeavour to make any changes requested by customers, the Agency or members of the public in order to improve the reports for future submissions.

The report has been compiled internally by Barna Recycling.

Updates on any of Barna Recycling activities are available at anytime during the year from our main offices in Carrowbrowne. Contact should be made with the Facility Manager.

A full copy of this report will also be made available on request to any person who requests it and as stated above will be made available in full in a downloadable format from the Agency website before end of March 2018.

Report Appendices

The following documents have been specifically requested by the Agency to be included in the Annual Environmental Report and are attached to this document and form part of the final report:

Appendix A: AER Summary Report in EPA's own Excel Format

(this includes results and information in relation to Air, Water, Bunds, ELRA, EMP. Noise, Resource / Energy, Complaints / Incidents and Waste

Quantities)

Appendix B: AER / PRTR Workbook for 2017

Appendix C: EMP & Schedule of Targets and Objectives 2017 / 2018

Appendix D: Map of site monitoring locations

Appendix E: Current Company Management Structure (March 2018)

Next Submission

The next submission of this report is due on 31st March 2019.

Contacts

Any issues, questions or requests for additional information with regards to this report can be requested from Campbell Finnie (Facility Manager).



Appendix A:

AER Summary Report in EPA's own Excel Format

(this includes results and information in relation to Air, Water, Bunds, ELRA, EMP. Noise, Resource / Energy, Complaints / Incidents and Waste Quantities)

Facility Information Summary

AER Reporting Year

Licence Register Number

Name of site

Site Location

NACE Code

Class/Classes of Activity

National Grid Reference (6E, 6 N)

A description of the activities/processes at the site for the reporting year. This should include information such as production increases or decreases on site, any infrastructural changes, environmental performance which was measured during the reporting year and an overview of compliance with your licence listing all exceedances of licence limits (where applicable) and what they relate to e.g. air, water, noise.

2017		22.00 m m m m m m m m m m m m m m m m m m	7		
W0106-02					
		Barna	Waste		
	Carrowbro	owne, He	adford Road,	Galway	
		38	321		
D	13, D14, D	15, R3, R4	, R5, R11, R1	2 and R13	
		53.3301	, -9.01825		

The principal activities carried out on site are D13, D14, D15, R3, R4, R5, R11, R12 and R13. Tonnage of waste received in 2017 was 89,779.08 which was down approx. 15.4% on 2016 figures of 106,174.10 tonnes. 78% of waste received was sent for recycling / recovery in 2017 which compares to 88% in 2016. The facility maintained certification to ISO 14001, the international standard for Environmental Management Systems. There were no complaints during the year. In relation to environmental monitoring there were no issues in 2017.

Declaration:

All the data and information presented in this report has been checked and certified as being accurate. The quality of the information is assured to meet licence requirements.

Signature Date
Group/Facility manager
(or nominated, suitably qualified and experienced deputy)

AIR-summary	template				Lic No:	W0106-02		Year	201	7
Answer all quest	ons and complete all table	s where relevant						water		
						I	Additional informat	ion	1	
Does your site	have licensed air emission	ons? If yes please con	nplete table A1 ar	nd A2 below for the current						
reporting year and answer further questions. If you do not have licenced emissions and do not complete a solvent management plan (table A4 and A5) you do not need to complete the tables										
SOIV	ent management plan (ta	able A4 and A5) you g	to not need to co	mplete the tables	No					
					NO			Ŷ	1	
Period	ic/Non-Continuous M	lonitoring								
Are there any re	sults in breach of licence rea	suirements? If yes nles	se provide brief de	tails in the comment section of						
The there only re		TableA1 below	ise provide brief de	talls in the comment section of	No					
			Basic air							
	ng carried out in accordance		monitoring	46112						
note AG2 a	nd using the basic air monit	oring checklists	checklist	AGN2	No		- 22 12 2		J	
Table A1: Lice	ensed Mass Emissions	/Ambient data-p	eriodic monito	ring (non-continuous)						
										Comments - reason for
										change in %
							1 34 70			mass load
Emission			ELV in licence or any revision			Unit of	Compliant with		Annual mass	from previous year
reference no:	Parameter/ Substance			Licence Compliance criteria	Measured value		licence limit	Method of analysis		if applicable

SELECT

SELECT

SELECT SELECT

SELECT

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SELECT

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SELECT

SELECT

SELECT

SELECT

SELECT

Note 1: Volumetric flow shall be included as a reportable parameter

SELECT

SELECT

SELECT

SELECT

The same of the sa	template				Lic No:	W0106-02		Year	2017	
	Continuous N	Monitoring						ter bereit diet in		460
			-							
Does vour site car	ry out continuous air emis	ssions monitoring?			No					
				halani ia Tabla A2 and sames						
if yes please revie		oring data and report to relevant Emission Limi		below in Table A2 and compa	re					
	10 10	STEICVAITE ETTISSION ETTI	it value (LLV)						1	
oid continuous mo	onitoring equipment exper	rience downtime? If ve	s please record do	wntime in table A2 below	SELECT					
na continuous me	omtoring equipment exper	nence do miner in you	, p						1	
o you have a pro	active service agreement f	for each piece of contin	uous monitoring e	equipment?	SELECT				4	
Did your	site experience any abaten	nent system bypasses?	If yes please detai	I them in table A3 below	SELECT	4]	
15	mary of average em				A					
abic riei suiii	inary or average on									
	In		Averaging Period	Compliance Criteria	Units of	Annual Emission	Annual maximum	Monitoring	Number of ELV	Comments
mission										190000000000000000000000000000000000000
	Parameter/ Substance		Averaging remod		measurement			Equipment	exceedences in	
	Parameter/ Substance		Averaging remod		measurement			Equipment downtime (hours)	exceedences in current	
	Parameter/ Substance		Averaging remod		measurement			Equipment downtime (hours)	The state of the s	
	Parameter/ Substance	ELV in licence or any	Arterograph Crists		measurement			Control of the Contro	current	
	SELECT	ELV in licence or any	Artering in a resident	SELECT	measurement			Control of the Contro	current	
		ELV in licence or any	Averaging Ferror					Control of the Contro	current	
mission eference no:	SELECT	ELV in licence or any	Averaging / enea		SELECT			Control of the Contro	current	
	SELECT SELECT	ELV in licence or any	Actinging		SELECT SELECT			Control of the Contro	current	

^{*} this should include all dates that an abatement system bypass occurred

^{**} an accurate record of time bypass beginning and end should be logged on site and maintained for future Agency inspections please refer to bypass protocol link

AIR-summary	template				Lic No:	W0106-02		Year	2017
Solvent	t use and manageme	nt on site							
o you have a tota	al Emission Limit Value of d	irect and fugitive emis	sions on site? if ye	s please fill out tables A4 and A5			No		
	ent Management Pla ission limit value	an Summary	<u>Solvent</u> <u>regulations</u>	Please refer to linked solver complete table 5					
Reporting year	Total solvent input on site (kg)	Total VOC emissions to Air from entire site (direct and fugitive)	Total VOC emissions as %of solvent input	Total Emission Limit Value (ELV) in licence or any revision therof	Compliance				
					SELECT				
Table A5	Solvent Mass Balan	ce summary							1
	(I) Inputs (kg)			(0)	Outputs (kg)				
Solvent	(I) Inputs (kg)		Solvents lost in water (kg)	Collected waste solvent (kg)	Fugitive Organic Solvent (kg)	Solvent released in other ways e.g. by-	Solvents destroyed onsite through	Total emission of Solvent to air (kg)	
									-
						-			-
		L	L						-

Bund/Pipeline testing templat	e				Lic No:	W0106-02		Year	20:	7				
Bund testing		dropdown menu	click to see options		- No No.									
you required by your licence to und actures on site, in addition to all bun ads outside the licenced testing peri	ids which failed the integri	bunds and containment structur ty test-all bunding structures whi	os 2 if was please fill out table	B1 below listing all new bund ands must be listed in the tab	is and containment le below, <u>please include</u> a	п	Additional information 3.12.5 requires 3 yearly test of all underground pipes and tanks and							
ase provide integrity testing frequen		iistore included)				Yes	bunds							
es the site maintain a register of bur		(Including starson and so the				3 years								
bile bunds)	nas, underground pipeline	(including stormwater and foul),	Tanks, sumps and containers	? (containers refers to "Cher	nstore" type units and									
w many bunds are on site?						Yes	1	-						
w many of these bunds have been to	ested within the required to	est schedule?					1	-						
w many mobile bunds are on site? the mobile bunds included in the bi								7						
w many of these mobile bunds have	been tested within the rea	riced test colored to 2				No	N/A							
w many sumps on site are included in	n the integrity test schedul	e?												
w many of these sumps are integrity	tested within the test sche	edule?						_						
ase list any sump integrity failures is	n table B1							J						
all sumps and chambers have high le	evel liquid alarms?					SELECT		7						
es to Q11 are these failsafe systems	included in a maintenance	and testing programme?				SELECT		\dashv						
he Fire Water Retention Pond includ	led in your integrity test pr	ogramme?				SELECT		-						
Table R1	Summary details of band /	containment structure integrity to		_				_						
	The second of buildy	The structure integrity to	DI.											
													1000000	
														8
										B To Date				
									Integrity reports					4
d/Containment structure ID	Type	Specify Other type	Product containment						maintained on		Integrity test failure		Scheduled date	te
d Diesl / Oil Bund	other (please specify)	Steel Steel	Diesel / Oil	Actual capacity 4.284m3	Capacity required*	Type of integrity test	Other test type	Test date	site?	Results of test	explanation <50 words	Corrective action taken	for retest	
	SELECT	-	Diesel / Oil	4.2641113	3.3m3	Other (please specify) SELECT	Hydrostatic	28.01.2015	Yes	Pass		SELECT		\top
apacity required should comply with 25% or 110% o	containment rule as detailed in your	licence	•			Secret			SELECT	SELECT		SELECT		
s integrity testing been carried out in	accordance with licence re	quirements and are all structures	tested in line with				Commentary	7						
8007/EPA Guidance?				bunding and storage guide	lines									
e channels/transfer systems to remot	te containment systems too					Yes								
	re contaminent systems (c.	ted?			mres.			-						
e channels/transfer systems complian	nt in both integrity and ava	ted? ilable volume?			100	Yes Yes Yes		=						
re channels/transfer systems compliar	nt in both integrity and ava	ted? ilable volume?			-193	Yes		=						
e channels/transfer systems compliar	nt in both integrity and ava	ted? ilable volume?				Yes								
e channels/transfer systems complian Pipeline/underground str	nt in both integrity and ava	ted? lable volume?				Yes		=						
Pipeline/underground str	nt in both integrity and ava	ilable volume?	elines or summs etc 2 if was pla			Yes]						
Pipeline/underground str e you required by your licence to und uctures and pipelines on site which fa	nt in both integrity and ava- cucture testing certake integrity testing* or alled the integrity test and	ilable volume?	elines or sumps etc ? if yes ple	sase fill aut tabla 2 balow lict		Yes Yes]						
Pipeline/underground str e you required by your licence to und uctures and pipelines on site which fa asse provide integrity testing frequent	nt in both integrity and ava- ucture testing ertake integrity testing* or alled the integrity test and cy period	ilable volume? underground structures e.g. pip all which have not been tested w	ithing the integrity test perio	sase fill aut tabla 2 balow lict		Yes Yes								
Pipeline/underground str e you required by your licence to und uctures and pipelines on site which fa asse provide integrity testing frequence	nt in both integrity and ava- ucture testing ertake integrity testing* or alled the integrity test and cy period	ilable volume? underground structures e.g. pip all which have not been tested w	ithing the integrity test perio	sase fill aut tabla 2 balow lict		Yes Yes								
Pipeline/underground str eyou required by your licence to und actures and pipelines on site which fa ase provide integrity testing frequences ease note integrity testing means wa	ucture testing retrake integrity testing* or alled the integrity test and cy period iter tightness testing for price.	llable volume? I underground structures e.g. pip all which have not been tested w scess and foul pipelines (as requir	ithing the integrity test perior	sase fill aut tabla 2 balow lict		Yes Yes								
Pipeline/underground str e you required by your licence to und uctures and pipelines on site which fa ase provide integrify testing frequen ease note integrify testing means wa	ucture testing retrake integrity testing* or alled the integrity test and cy period iter tightness testing for price.	ilable volume? underground structures e.g. pip all which have not been tested w	ithing the integrity test perior	sase fill aut tabla 2 balow lict		Yes Yes								
Pipeline/underground str e you required by your licence to und uctures and pipelines on site which fa ase provide integrity testing frequen lease note integrity testing means wa	ucture testing retrake integrity testing* or alled the integrity test and cy period iter tightness testing for price.	llable volume? I underground structures e.g. pip all which have not been tested w scess and foul pipelines (as requir	ithing the integrity test perior	sase fill aut tabla 2 balow lict		Yes Yes						1		
Pipeline/underground str e you required by your licence to und uctures and pipelines on site which fa ase provide integrity testing frequen lease note integrity testing means wa	ucture testing retrake integrity testing* or alled the integrity test and cy period iter tightness testing for price.	llable volume? I underground structures e.g. pip all which have not been tested w scess and foul pipelines (as requir	ithing the integrity test perior	sase fill aut tabla 2 balow lict		Yes Yes						1		
Pipeline/underground str e you required by your licence to und uctures and pipelines on site which fa ase provide integrity testing frequen lease note integrity testing means wa	ucture testing retrake integrity testing* or alled the integrity test and cy period iter tightness testing for price.	llable volume? I underground structures e.g. pip all which have not been tested w scess and foul pipelines (as requir	ithing the integrity test perior	sase fill aut tabla 2 balow lict		Yes Yes								
Pipeline/underground str e you required by your licence to und uctures and pipelines on site which fa asse provide integrity testing frequen lease note integrity testing means wa	ucture testing retrake integrity testing* or alled the integrity test and cy period iter tightness testing for price.	llable volume? I underground structures e.g. pip all which have not been tested w scess and foul pipelines (as requir	ithing the integrity test perior	ase fill out table 2 below list		Yes Yes								
Pipeline/underground str eyou required by your licence to und actures and pipelines on site which fa ase provide integrity testing frequences ease note integrity testing means wa	ucture testing retrake integrity testing* or alled the integrity test and cy period iter tightness testing for price.	llable volume? I underground structures e.g. pip all which have not been tested w scess and foul pipelines (as requir	ithing the integrity test perio- ed under your licence)	asse fill out table 2 below list d as specified Type of secondary		Yes Yes Yes Yes 3 years		Integrity test						
Pipeline/underground str you required by your licence to und ctures and pipelines on site which fa see provide integrity testing frequen- ase note integrity testing means wa Table B2: Sur	ucture testing retrake integrity testing* or alled the integrity test and cy period iter tightness testing for price.	llable volume? I underground structures e.g. pip all which have not been tested w scess and foul pipelines (as requir	ithing the integrity test perior	asse fill out table 2 below list d as specified Type of secondary	ing all underground	Yes Yes Yes 3 years	Double of tark	failure explanation			Results of retest(if in current			
Pipeline/underground str you required by your licence to und ctures and pipelines on site which fa se provide integrity testing freely ase note integrity testing means wa Table B2: Su Structure ID Section 1 (MH P2 - MH P3)	nt in both integrity and ava- ucture testing errake integrity testing* or alled the Integrity test and cy period ter tightness testing for pr. mmary details of pipeline/. Type system Foul	liable volume? Junderground structures e.g., pip all which have not been tested w occess and foul pipelines (as requi	ed under your licence) test Does this structure have	asse fill out table 2 below list d as specified Type of secondary		Yes Yes Yes Yes 3 years	Results of test Pass		Corrective action taken	Scheduled date for retest	reporting year)			
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Pipeline/underground str you required by your licence to und ctures and pipelines on site which to se provide integrity testing freely asse note integrity testing means wa Table B2: Sur Structure ID Section 1 (MH P2 - MH P3) Section 2 (MH P3 - End Line 1) Section 2 (MH P3 - End Line 1)	nt in both integrity and ava- ucture testing iertake integrity testing* or alled the Integrity test and cy period teer tightness testing for pr. mmary details of pipeline/i Type system Foul Foul Foul	alable volume? underground structures e.g., pip all which have not been tested w scess and foul pipelines (as require underground structures integrity Material of construction: poc poc	thing the integrity test period ed under your licence) rest Does this structure have Secondary containment? No No No	ase fill out table 2 below list d as specified Type of secondary containment	ing all underground Type integrity testing CCTV	Yes Yes Yes 3 years	Pass Pass	failure explanation			reporting year)			
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Please use commentary for additional details not answered by tables/ questions above

Groundwater/Soil monitoring template	Lic No:	W0106-02	Year	2017	
				2021	

Comments

	Comments	
1 Are you required to carry out groundwater monitoring as part of your licence requirements?	no	Please provide an interpretation of groundwater monitoring data in the
2 Are you required to carry out soil monitoring as part of your licence requirements?	no	interpretation box below or if you require additional space please
Do you extract groundwater for use on site? If yes please specify use in comment section	no	include a groundwater/contaminated land monitoring results interpretaion as an additional section in this AER
Do monitoring results show that groundwater generic assessment criteria such as GTVs or IGVs are exceeded or is 4 there an upward trend in results for a substance? If yes, please complete the Groundwater Monitoring Guideline Template Report (link in cell G8) and submit separately through ALDER as a licensee return AND answer questions 5-12 below.	SELECT	
5 Is the contamination related to operations at the facility (either current and/or historic)	SELECT	
6 Have actions been taken to address contamination issues?If yes please summarise remediation strategies proposed/undertaken for the site	SELECT	
7 Please specify the proposed time frame for the remediation strategy	SELECT	
8 Is there a licence condition to carry out/update ELRA for the site?	SELECT	
9 Has any type of risk assesment been carried out for the site?	SELECT	
10 Has a Conceptual Site Model been developed for the site?	SELECT	
11 Have potential receptors been identified on and off site?	SELECT	
12 Is there evidence that contamination is migrating offsite?	SELECT	Please enter interpretation of data here

Table 1: Upgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Monitoring frequency	Maximum Concentration++	Average Concentration+	unit	GTV's*	SELECT**	Upward trend in pollutant concentration over last 5 years of monitoring data
						SELECT			SELECT
						SELECT			SELECT

^{.+} where average indicates arithmetic mean

Table 2: Downgradient Groundwater monitoring results

Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration	unit	GTV's*	SELECT**	Upward trend in yearly average pollutant concentration over last 5 years of monitoring data
					3 - 1.07		SELECT			SELECT
							SELECT	A STATE OF THE PARTY OF THE PAR		SELECT

^{.++} maximum concentration indicates the maximum measured concentration from all monitoring results produced during the reporting year

Groundwater/Soil monitoring template	c No:	W0106-02		Year	2017	7		1
*please note exceedance of generic assessment criteria (GAC) such as a Groundwater The trend in results for a substance indicates that further interpretation of monitoring res- complete the Groundwater Monitoring Guideline Template Report at the link provide otherwise instructed by the	sults is require ed and submit	d. In addition to completing the a	ove table please		indwater monito	oring template		•
More information on the use of soil and groundwater standards/ generic assessment criteria (GAC) and risk assessment tools is available in the EPA published guidance (see the link in G31)	Guidance	on the Management of Conta	ninated Land and Gr	oundwater a	t EPA Licensed S	ites (EPA 2013).		
**Depending on location of the site and proximity to other sensitive receptors alternativ. to the GTV e.g. if the site is close to surface water compare to Surface Water Environment supply compare results to the Drinking W	ntal Quality St	andards (SWEQS), If the site is clo	d be used in addition e to a drinking water	Surface water EQS	Groundwater regulations GTV's	Drinking water (private supply) standards	Drinking water (public supply) standards	Interim Guideline Values (IGV)

Sicultum	ater/3011 II	nonitoring te	empiate		Lic No:	W0106-02			Year	2017	
Table 3: S	Soil results										
Date of sampling	Sample location reference	Parameter/ Substance	Methodology	Monitoring frequency	Maximum Concentration	Average Concentration		unit]		
							SELECT	A PART OF STREET			
							SELECT				
							SELECT		J		
]		
L		W	here additional	detail is required	d please enter it here in	200 words or less					

Environmental Liabilities template Lic No: W0106-02 Year 2017

Click here to access EPA guidance on Environmental Liabilities and Financial provision

			Commentary
1	ELRA initial agreement status	Submitted and agreed by EPA	
2	ELRA review status	Review required and completed	
3	Amount of Financial Provision cover required as determined by the latest ELRA	€1,566,670.40	This is the total unknown liabilities - ELRA
4	Financial Provision for ELRA status	Submitted and agreed by EPA	
5	Financial Provision for ELRA - amount of cover	€865,887.90	unknown liabilities - ELRA
6	Financial Provision for ELRA - type	bond	
7	Financial provision for ELRA expiry date	01/01/2018	
8	Closure plan initial agreement status	losure plan submitted and agreed by E	PA
9	Closure plan review status	Review required and completed	
10	Financial Provision for Closure status	Submitted and agreed by EPA	
			Amount for Closure
11	Financial Provision for Closure - amount of cover	€700,782.50	Plan only
12	Financial Provision for Closure - type	bond	
13_	Financial provision for Closure expiry date	01/01/2019	

2017

	Environmental Management Programme/Continuous Improvement Programme	template	Lic No:	W0106-02	Year
	Highlighted cells contain dropdown menu click to view		Additional Informati	on	
1	Do you maintain an Environmental Mangement System (EMS) for the site. If yes, please detail in additional information	Yes	This systen	n is approved to ISO 14001 standards	
2	Does the EMS reference the most significant environmental aspects and associated impacts on-site	Yes	TH	nis is part of our EMS system	
3	Does the EMS maintain an Environmental Management Programme (EMP) as required in accordance with the licence requirements	Yes	Yes this is produc	ced annually and submitted along with the companies AER	
4	Do you maintain an environmental documentation/communication system to inform the public on environmental performance of the facility, as required by the licence	Yes			

Environmental Management Programme (EMP) report ***Review of targets set for 2017 and report on progress*** Objective Category Target Status (% completed) How target was progressed Responsibility Intermediate outcomes Health & Safety Review fire safety at the Ongoing - 80% This work is progressing very Facility Manager / Health & site and implement well. A fire improvement Safety Manager recommendations of team has been put in place independent report focusing on implementing produced at the start of the reports 2017 by Tobin Consulting recommendations and other Engineers fire related improvements. Excellent progress made, and the team will continue in 2018. Health & Safety Carry out upgrades to Complete - 100% Canteens painted and new Operations Manager / Facility operations staff canteens equipment installed Manager / Managing Director and include shower rooms throughout. within the new set-up Composting Amend air flow options in Complete - 100% Compost Manager This has been successfully compost pasteurisation implemented. The maturing tunnels to increase time of compost batches in efficiency of the back-end pasteurisation tunnels has process reduced significantly during 2017 and this part of the process is working very well.

Invironmental Management	Programme/Continuous Impr	ovement Programm	ne template	Lic No:	W0106-02	Year	201
ransport	carry out a full review of all skip containers and ensure they are all brought to the new NWCPO condition requirements before being re-used	Complete - 99%	This work is 99% complete. All skips in rotation have been updated as required. We just have a few older skips to finish in order that the programme is fully complete.	Skips Manager			
raining	Carry out training on all aspects of safety and good work practice on the roads for all vehicle drivers and helpers	Complete - 100%	This training programme was completed fully during 2017	Transport Manager			
raining	Carry out training for all drivers and helpers on the rules and regulations behind driver working hours and driving time	Complete - 100%	This training programme was completed fully during 2017	Transport Manager			
raining	Carry out training on the Use of our new handheld units for all drivers and helpers to ensure a smooth transition to our paper free docket free system when moving to pay by weight	Complete - 100%	This training programme was completed fully during 2017	Transport Manager			
invironmental	Find a regular and sustainable market for hard plastics which have been a problem to move over the last couple of years on a consistent basis to one buyer who will accept the quality of material that we produce	Complete - 100%	This process is ongoing but excellent progress has been made. We are currently working with Van Werwen plastics in relation to a long term sustainable option for this material. Five trials loads have been sent and the material approved. We are due to deliver the final trial load in April 2018 before a long-term contract is offered.	Facility Manager			

I	nt Programme/Continuous Impi	rovernent Programmi	template	Lic No:	W0106-02	Year
Environmental	Implement the proposed agreement with Glassco to provide a central collection point for glass collections in the Galway area and assist bulk transfer to their facility in NAAS	Complete - 100%	This process is in place and a contract in place with Glassco	Facility Manager		
Health & Safety	Carry out an assessment throughout the organisation of ergonomics and implement findings recommended for each employee before the end of 2017	Complete - 50%	An ergonomics assessment has taken place with all staff and a report of findings has been produced. Recommendations to be implemented during 2018.	Health & Safety Manager		
Management Systems	Complete implementation of integrated management systems to incorporate Quality, Environment and Health / Safety and get certification to ISO 9001, ISO 14001 and ISO 18001 standards	Ongoing - 20% complete		Health & Safety Manager / Facility Manager		
Operations	Devise plan and tonnage model to ensure the composting facility is capable of accepting and processing 20,000 tonnes of material per annum running and tonnage increases year on year through 2018	Complete - 100%	This work has been completed during 2017 and with quicker processing time we plan to increase tonnage towards 20,000 tonnes in 2018. In addition there were no odour complaints about the composting during 2017 and that was also part of the improvements implemented as part of this action within the compost process.	Compost Manager		

Environmental Management Pr		rovement Program	me template	Lic No:	W0106-02	Year	20:
Operations	Material Sorting Facility (picking station) – integrate the recently purchased equipment including optical sorting units into the facility to further enhance picking capabilities	Incomplete	This work was not completed during 2017 and will be rolled into 2018. This action was not ignored it was scheduled for Q4 however due to the significant downturn in the recycling markets it was decided to put the project on hold.	Managing Director			
Operations	Continue strategy / policy for phasing out older plant and machinery around the site and introducing fresh newer equipment (to include mobile plant)	Ongoing	This programme is ongoing but good progress was made in 2018 with upgrades purchased for both forklifts and loading shovels on site (x1 of each). These improvements will continue in the new reporting year.	Managing Director			
Operations	Review the situation with temporary work staff make decision if this is best practice or not and if we maintain temporary staff we must incorporate them into the company vaccination programme as soon as possible	Complete - 100%	This programme was completed during 2017 and a final decision made to cease use of agency staff on site. This was implemented from Q2 2017 onwards and no agency staff have been used since.	Managing Director / Operations Supervisor			
T Systems	Implement a self-weighing facility into the site weighbridges for specific transactions only	Complete - 100%	This functionality is now available on site.	IT Manager			
T Systems	Review Genysys software for company reports and request update reports to be released to cover all departmental requirements	Complete - 100%	This work has been completed and the system now includes all reports for each department within our company. This programme will continue annually as the system develops further to ensure we always have the ability to pull the data needed for reporting	IT Manager			

	ment Programme/Continuous Imp	rovement Programm	e template	Lic No:	W0106-02	Year
Pay by Weight	Implement pay by weight capability across all fleet and implement a system that offers capability to run from the 'back of truck' through to 'invoicing'. This will only be implemented when legislation that requires pay by weight as a requirement by the Government is fully implemented	Complete - 100%	This project has been successfully implemented and pay by weight is now available to both commercial and domestic customers	Management Team (All)		
Environmental	Continue to develop the energy and power saving programmes within the waste transfer station and all areas of the site to reduce the usage during both operational and non-operating hours	Ongoing	This programme is always under review but no major progress was made in 2017.	Management Team (All)		
Environmental	Continue to review the Irish recycling market to identify possible recycling options for various materials within the Country to reduce our carbon footprint	Ongoing	This option is always under review. The major progress to report in 2017 was the development on the local hard plastic market and also agreeing a deal with AES in relation to the management of tyres within the country.	Facility Manager		
Compliance	Contraction of the contraction o	Complete - 100% but still ongoing	We are up to schedule with all brown bins to be distributed under current regulations all areas that require a brown bin service have been given the option.	Sales Manager.		

Environmental Management Progra	mme/Continuous Impi	rovement Programme	e template	Lic No:	W0106-02	Year	20
Community Relations	Continue programme of school visits and presentation to target the younger generation interested in recycling	Complete - 100% but still ongoing	This programme continues and school visits and dialogue continued throughout 2017. The company have a presentation specifically designed for visiting schools.	Facility Manager / Sales Manager			
Training	Continue to support all staff training to ensure we meet health and safety and other compliance standards as well as develop our workforce – main focus in 2016 to be on manual handling refresher courses and training for drivers and helpers on best practice on the backs of trucks with bins lifts etc	Complete - 100%	All training scheduled for 2017 was successfully implemented	Management Team (All)			
Operations	Permitted site – once this site is in a proper condition prepare a plan for the EPA with a proposal / application to have this site integrated into the EPA licence	Incomplete	No progress in 2017 in relation to this project.	Managing Director			
New List of Targets and Objectives for 2018 Health & Safety / Environment	Continue to implement fire safety improvements throughout the site during 2018	Open - New for 2018		Management Team (All)			
Health & Safety	Implement the recommendations from the organisation's ergonomics testing before the end of 2018	Open - New for 2018		Health & Safety Manager			
Operations	Carry out a full safety review and implement improvements at all company civic amenity facilities	Open - New for 2018		Health & Safety Manager			

		rovement Programme template	Lic No:	W0106-02	Year 20
Management Systems	Make a final decision on the implementation of integrated management systems to incorporate Quality, Environment and Health / Safety and get certification to ISO 9001, ISO 14001 and ISO 18001 standards	Open - New for 2018	Management Team (All)		
Transport	implement safety camera's systems to all vehicles to enhance monitoring of health ad safety on the road. Camera's can also be used for operational reasons such as missed bins etc	Open - New for 2018	Transport Manager		
Environment / Operations	Devise plan and prepare EPA submission for an MBT or bio drying process on site to try and produce an EWC 191210 product to increase options for the MSW material once processed	Open - New for 2018	Managing Director		
Environment / Operations	Devise plan and tonnage model to ensure the composting facility is capable of accepting and processing 20,000 tonnes of material per annum running and tonnage increases year on year through 2018 and for the next five years	Open - New for 2018	Compost Manager / Managing Director		

Environmental Manage	ment Programme/Continuous Improveme	nt Programme template	Lic No:	W0106-02	Year	2
Operations	Material Sorting Facility (picking station) – integrate the purchased equipment including optical sorting units into the facility to further enhance picking capabilities that will develop over the next one to five years	ew for 2018	Managing Director / Operations Supervisor			
Operations	Continue strategy / policy for phasing out older plant and machinery around the site and introducing fresh newer equipment (mainly mobile plant such as loading shovels / forklifts). The age of the fleet should be significantly reduced over the next 5 years	ew for 2018	Managing Director			
Environment	Continue to develop the energy and power saving programmes within the waste transfer station and all areas of the site to reduce the usage during both operational and non-operating hours over the next 5 years	ew for 2018	Management Team (All)			
Environment	Continue to review the Irish recycling market to identify possible recycling options for various materials within the Country to reduce our carbon footprint over the next 5 years	ew for 2018	Facility Manager			

	t Programme/Continuous Imp	rovement Programme template	Lic No:	W0106-02	Year	20
Enviromental Compliance	Continue to implement a	Open - New for 2018	Sales Manager.			
	plan to introduce brown			THE RESERVE OF THE RE		
	bins to all our domestic					
	customers. Training					
	programmes for the	1				
	domestic customer should					
	be developed as part of this	4				
	project.					
Community Relations	Continue programme of	Open - New for 2018				
, , , , , , , , , , , , , , , , , , , ,	school visits and	Open - New Ior 2018	Facility Manager / Sales Manager			
	presentations to target the	1				
	younger generation					
Operations	interested in recycling Permitted site – once this	Open - New for 2018				
per dions		Open - New for 2018	Managing Director			
	site is in a proper condition					
	prepare a plan for the EPA					
	with a proposal /					
	application to have this site					
	integrated into the EPA					
Fraining	licence					
Talling	Continue to support all	Open - New for 2018	Management Team (All)			
	staff training to ensure we					
	meet health and safety and					
	other compliance					
	standards as well as					
	develop our workforce					
Community Relations	Investigate the possibility	Open - New for 2018	Composting Manager / Facility			
	of working with local		Manager			
	community groups					
	especially in relation to					
	gardens where compost					
	might be able to be used					
	this will be good for					
	environment and					
	connecting with local					
	communities on the work					
	we are doing					
		1				

	rogramme/Continuous Improvement Programme template	Lic No:	W0106-02	Year
Environmental / Operations	Implement a review and improvement programme to re-educate customers of contents of the recycling bin to reduce contaminations levels this year and over the next few years	Management Team (All)		
Community Relations / Marketing	Work with Galway City Council to be part of the European Green Leaf programme and specifically the visit organized for Q1 2018 to see if we can be involved to promote our business and the processes we have on site	Facility Manager / Sales Manage		
Community Relations / Marketing	Work with Galway City and County Council in relation to a possible site visit by local councilors to promote our recycling initiatives and processes	Facility Manager		
Housekeeping	Implement dust maintenance programme within site buildings to improve housekeeping and fire safety standards this should be started and developed over the next 5 years across all buildings	Operations Supervisor		
Operations	Improve site operations by finding more permanent and safer methods of dividing storage areas on site by the use of only non-combustible materials	Operations Supervisor		

Noise monitoring summary report	Lic No:	W0106-02	Year	2017
1 Was noise monitoring a licence requirement for the AER period? If yes please fill in table N1 noise summary below		Yes		
	Noise			
2 Was noise monitoring carried out using the EPA Guidance note, including completion of the "Checklist for noise measurement report" included in the guidance note as table 6?	Guidance note NG4	Yes		
3 Does your site have a noise reduction plan	note NG4	SELECT		
4 When was the noise reduction plan last updated?		Enter date		
5 Have there been changes relevant to site noise emissions (e.g. plant or operational changes) since survey?	ce the last nois	SELECT		
Table N1: Noise monitoring summary		L		

Table N1: Noi	se monitoring	summary									
Date of monitoring	Time period	Noise location (on site)	Noise sensitive location -NSL (if applicable)	LA _{eq}	LA ₉₀	LA ₁₀	LA _{max}	Tonal or Impulsive noise* (Y/N)	If tonal /impulsive noise was identified was 5dB penalty applied?	Comments (ex. main noise sources on site, & extraneous noise ex. road traffic)	Is <u>site</u> compliant with noise limits (day/evening/night)?
24/03/2017	daytime	On site	N1 Reading 1	52.7	48.5	54.7	75.7	Yes	Yes		Yes
24/03/2017	daytime	On site	N1 Reading 2	50.7	47.2	52.4	74.4	Yes	Yes		Yes
24/03/2017	daytime	On site	N1 Reading 3	49.7	47.2	51.3	69.5	Yes	Yes		Yes
24/03/2017	daytime	Off site	N2 Reading 1	40.8	37.2	42	64.4	No			Yes
24/03/2017	daytime	Off site	N2 Reading 2	40.4	37.6	41.7	69.5	No			Yes
24/03/2017	daytime	Off site	N2 Reading 3	41.4	35.8	42.1	70.5	No			Yes

^{*}Please ensure that a tonal analysis has been carried out as per guidance note NG4. These records must be maintained onsite for future inspection

If noise limits exceeded as a result of noise attributed to site activities, please choose the corrective action from the following options?

SELECT

** please explain the reason for not taking action/resolution of noise issues?	
Any additional comments? (less than 200 words)	

Resource Usage/Energy efficiency summary	Lic No:	W0106-02	Year	2017
			Additional information	
1 When did the site carry out the most recent energy efficiency audit? Please list the	recommendations in table 3 below	Enter date of audit		
Is the site a member of any accordited programmer for reducing energy upage (uptor or	SEAI - Large			

SELECT

SELECT

as the SEAI programme linked to the right? If yes please list them in additional information

Network (LIEN)

Where Fuel Oil is used in boilers on site is the sulphur content compliant with licence conditions? Please state percentage in additional information

Table R1 Energy usag	e on site			
Energy Use	Previous year	Current year	Production +/- % compared to previous reporting year**	Energy Consumption +/- % vs overall site production*
Total Energy Used (MWHrs)				
Total Energy Generated (MWHrs)				
Total Renewable Energy Generated (M	ИWHrs)			
Electricity Consumption (MWHrs)	1,446	1,417	-2%	
Fossil Fuels Consumption:				
Heavy Fuel Oil (m3)				
Light Fuel Oil (m3)	1,097	1064	-3%	
Natural gas (m3)				
Coal/Solid fuel (metric tonnes)				
Peat (metric tonnes)				
Renewable Biomass	-10000 5			
Renewable energy generated on site				

* where consumption of energy can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.

** where site production information is available please enter percentage increase or decrease compared to previous year

Table R2 Y	Water usage on site				Water Emissions	Water Consumption	
Water use	Water extracted Previous year m3/yr.	Water extracted Current year m3/yr.	compared to previous reporting	Energy Consumption +/- % vs overall site production*	Volume Discharged back to environment(m³yr):	Volume used i.e not discharged to environment e.g. released as steam m3/yr	Unaccounted for Water:
Groundwater							
Surface water	3 - 4-3 (0)						
Public supply							
Recycled water							
Total							

* where consumption of water can be compared to overall site production please enter this information as percentage increase or decrease compared to the previous reporting year.

^{**} where site production information is available please enter percentage increase or decrease compared to previous year

Table R3 Waste	Stream Summary					
	Total	Landfill	Incineration	Recycled	Other	
Hazardous (Tonnes)						
Non-Hazardous (Tonnes)						

rce Usage/Energy effi	the state of the s			Lic No:	W0106-02		Year	201
Table	R4: Energy Audit finding recommen	dations						201
Date of audit	Recommendations	Description of Measures proposed		Predicted energy savings %	Implementation date	Responsibility	Completion date	Status and comments
			SELECT					Comments
			SELECT					
			SELECT					

Table R5: Power Generation: Where p	Unit ID	Unit ID	Unit ID	Unit ID	Station Total
Technology					Station rotal
Primary Fuel					
Thermal Efficiency					
Unit Date of Commission					
Total Starts for year					
Total Running Time					
Total Electricity Generated (GWH)					
House Load (GWH)					
KWH per Litre of Process Water					
KWH per Litre of Total Water used on	Site				

Complaints and Incidents summary template	Water State of the same	Lic No:	W0106-02	V		
Complaints		Lie No.	W0100-02	Year	2017	
Have you received any environmental complaints in the current reporting year? If yes please complete summary details of complaints received on site in table 1 below	SELECT	Additional info	ormation			

Table	1 Complaints summary						
Date	Category	Other type (please specify)	Brief description of complaint (Free txt <20 words)	Corrective action< 20 words	Resolution status	Resolution date	Further
	SELECT				SELECT		
	SELECT				SELECT		1
	SELECT				SELECT		
	SELECT				SELECT		
	SELECT				SELECT		_
reporting year Total new complaints received during reporting year							
Total complaints closed during reporting year		1					
Balance of complaints end of		1					
reporting year		I					

	Incidents		
and the state of t			Additional information
	porting year? Please list all incidents for current reportin Table 2 below	No	None
*For information on how to report and what constitutes an incident	What is an incident		

Date of occurrence	Incident nature	Location of occurrence	Incident category*please refer to guidance	Receptor		Other cause(please specify)	Activity in progress at time of incident	Communication		Corrective action<20	Resolution status	Resolution date	Likelihood of reoccurence
	SELECT	SELECT	CELECT								SIN AMERICAN TREE		
	SELECT			SELECT	SELECT		SELECT	SELECT	SELECT		SELECT		SELECT
		SELECT		SELECT	SELECT		SELECT	SELECT	SELECT		 SELECT		
	SELECT	SELECT	SELECT	SELECT	SELECT				SELECT	-			SELECT
	SELECT	SELECT	SELECT	SELECT	SELECT						SELECT		SELECT
otal number of				SELECT	SELECT		SELECT	SELECT	SELECT		SELECT		SELECT

year Total number of incidents previous year % reduction/ increase 100% reduction (1 incidents last year, down to 0)

WASTE SUMMARY		Lic No:	W0106-02	Year	2017	
SECTION A DOTE ON SITE WASTE TREATMENT AND WAS	TE TRANSCERS TAR. TO BE COMPLETED BY ALL IPPC A	ND WASTE FACILITIES	PRTP facility losen	drondown lis	t click to see options	

SECTION B- WASTE ACCEPTED ONTO SITE-TO BE COMPLETED BY ALL IPPC AND WASTE FACILITIES	
Were any wastes accepted onto your site for recovery or disposal or treatment prior to recovery or disposal within the boundaries of your facility?; (waste generated within your boundaries is 1 to be captured through PRTR reporting)	Additional Information
If yes please enter details in table 1 below	
2 Did your site have any rejected consignments of waste in the current reporting year? If yes please give a brief explanation in the additional information	No
Was waste accepted onto your site that was generated outside the Republic of Ireland? If yes please state the quantity in tonnes in additional information	No
Table 1 Details of waste accepted onto your site for recovery, disposal or treatment (do not include wastes generated at your site	, as these will have been reported in your PRTR workbook)

INDUSTRIAL AND
INSTITUTIONAL WASTES)
INCLUDING SEPARATELY
COLLECTED FRACTIONS

Garden and Park Waste

1,353.69

20 02 01

Licenced annual tonnage limit for your site (total tonnes/annum)	European Waste Catalogue EWC codes	Source of waste accepted	Description of waste accepted Please enter an accurate and detailed description - which applies to relevant EWC code <u>European Waste</u> <u>Catalogue EWC codes</u>	Quantity of waste accepted in current reporting year (tonnes)	Quantity of waste accepted in previous reporting year (tonnes)	Reduction/ Increase over previous year +/ - %	Reason for reduction/ increase from previous reporting year	Packaging Content (%)-	Disposal/Recovery or treatment operation carried out at your site and the description of this operation	Quantity of waste remaining on site at the end of reporting year (tonnes)	Comments -
	20 03 01	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Domestic Municipal Waste	25,038.30	32,337.35	-22.57%	Market Demand	0%	D13- Blending or mixing prior to submission to any of the operations numbered D1 to D12	o	
	20 03 01	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Commercial Municipal Waste	19,741.09	18,312.97	7.80%	6 Market Dernand	0%	D13- Blending or mixing prior to submission to any of the operations numbered D1 to D12	o	
	20 03 01	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Mixed Municipal Waste	10,559.84	0.00		Market Demand	0%	D13- Blending or mixing prior to submission to any of the operations numbered D1 to D12	0	
	20 03 03	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Street / Road Sweepings	410.05	1,21	5 32443.65%	6 Market Demand	0%	R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials	0	
	170904	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Mixed C & D waste	2,769.47	2,927.3	4 #REFI	Market Demand	09	R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials	0	
	170201	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Wood / Timber	0	1,490.1	5 100.00%	% Market Demand	09	R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic 6 construction materials		
		20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND							R3-Recycling/reclamation or organic substances which are not used as solvents(including composting asnother biological		

1,117.13

Market Demand

organic substances which are not used as solvents(including composting asnother biological

transformation processes)which includes

0% gasification and pyrolisis

			Lic	c No:	W0106-02		Year	2017	
								R12-Exchange of waste for	
		1	12.4					submission to any of the	
		1		i				operations numbered R1 to R11	
		1 1	- 1					(if there is no other R code	
			1					appropriate, this can include	
			1					preliminary operations prior to	
	EX CONTRACTOR OF THE PARTY OF T	1						recovery including pre-	
		1	1				lo .	processing such as amongst	
		1	1					others, dismantling, sorting,	
	THE PERSON NAMED IN	1						crushing, compacting,	1
		1						pelletising, drying, shredding,	
	15- WASTE PACKAGING;	1						conditioning, repackaging,	
1	ABSORBENTS, WIPING							seperating, blending or mixing	
	CLOTHS, FILTER MATERIALS							prior to submission to any of	
	AND PROTECTIVE CLOTHING							the operations numbered R1 to	
 15 01 01	NOT OTHERWISE SPECIFIED	Cardboard	2,288.26	1,994.57	14.72%	Market Demand	09	6 R11)	0
	EST AS A SHARE FOR A LONG							CERTIFICATION OF THE PERSON	
								R12-Exchange of waste for	
1			1					submission to any of the	
L				I				operations numbered R1 to R11	
1				I				(if there is no other R code	
1								appropriate, this can include	1
								preliminary operations prior to	
1									
1		4						recovery including pre- processing such as amongst	
	20- MUNICIPAL WASTES	1						others, dismantling, sorting,	
	(HOUSEHOLD WASTE AND							crushing, compacting,	
	SIMILAR COMMERCIAL							pelletising, drying, shredding,	
	INDUSTRIAL AND							conditioning, repackaging,	
	INSTITUTIONAL WASTES)							seperating, blending or mixing	
	INCLUDING SEPARATELY	7						prior to submission to any of	
20 01 01		Paper	738.61	626.86	.,,,,,,	Market Demand		the operations numbered R1 to	
			7,50,61	620.30	17.63%	murket Demand	0%	NII)	0
	MANUAL PROPERTY.								
Į.								R12-Exchange of waste for	1
				1					1
			I	1				submission to any of the	
								operations numbered R1 to R11	
								operations numbered R1 to R11 (if there is no other R code	
								operations numbered R1 to R11 (if there is no other R code appropriate, this can include	
								operations numbered R1 to R11 (if there is no other R code	
								operations numbered R1 to R11 (if there is no other R code appropriate, this can include	
								operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to	
								operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-	
	20- MUNICIPAL WASTES							operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre- processing such as amongst	
	(HOUSEHOLD WASTE AND							operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre- processing such as amongst others, dismantling, sorting, crushing, compacting,	
	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL,							operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre- processing such as amongst athers, dismantling, sorting, crushing, compacting, pelletising, drying, shredding,	
	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND							operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre- processing such as amongst others, dismontting, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging,	
	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES)							operations numbered R1 to R11 (if there is no other R code oppropriate, this can include preliminary operations prior to recovery including pre- processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, seperating, blending or mixing	
	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY							operations numbered R1 to R11 (If there is no other R code appropriate, this can include preliminary operations prior to recovery including preparates as the same and the sam	
20 01 39	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES)	Plastic	629.98	613.34	2.71%	Market Demand	0%	operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre- processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to	
20 01 39	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY	Plastic	629.98	613.34	2.71%	Market Demand	0%	operations numbered R1 to R11 (If there is no other R code appropriate, this can include preliminary operations prior to recovery including preparates as the same and the sam	o
20 01 39	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY	Plastic	629.98	613.34	2.71%	Market Demand	0%	operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst athers, dismantling, sorting, crushing, compacting, crushing, competiting, chiquing, shedding, conditioning, repackaging, seperating, binding or mixing prior to submission to any of the operations numbered R1 to R11)	o
20 01 39	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY	Plastic	629.98	613.34	2.71%	Market Demand	0%	operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preparations providing preparations and presenting, sorting, crushing, compacting, crushing, compacting, pelietising, drying, shredding, conditioning, repeckaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11.	o
20 01 39	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY	Plastic	629.98	613.34	2.71%	Market Demand	0%	operations numbered R1 to R11 (If there is no other R code appropriate, this can include preceiver including pre-processing such as amongst others, dismontting, sorting, crushing, compacting, crushing, compacting, conditioning, repackaging, seperating, bineding or mixing prior to submission to any of the operations numbered R1 to R11.	o
20 01 39	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY	Plastic	629.98	613,34	2.71%	Market Demand	0%	operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preparations providing preparations and presenting, sorting, crushing, compacting, crushing, compacting, pelietising, drying, shredding, conditioning, repeckaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11.	o
20 01 39	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY	Plastic	629.98	613.34	2.71%	Market Demand	0%	operations numbered R1 to R11 (If there is no other R code appropriate, this can include preceiver, including pre-processing such as amongst others, dismontting, sorting, crushing, compacting, conditioning, repackaging, conditioning, repackaging, seperating, binding or mixing prior to sub-mission to any of the operations numbered R1 to R11.	0
20 01 39	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY	Plastic	629.98	613.34	2.71%	Market Demand	0%	operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst athers, dismantling, sorting, crushing, compacting, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	0
20 01 39	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY	Plastic	629.98	613.34	2.71%	Market Demand	0%	operations numbered R1 to R11 (if there is no other R code oppropriate, this can include preliminary operations prior to recovery including preparations prior to there, dismonthing, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repeakaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11 (If there is no other R code	o
20 01 39	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY	Plastic	629.98	613.34	2.71%	Market Demand	0%	operations numbered R1 to R11 (if there is no other R code oppropriate, this can include preliminary operations prior to recovery including preparations prior to the recovery including preparations, southers, dismontting, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repeakaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations rious de appropriate, this can include preliminary operations from the	0
20 01 39	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY	Plastic	629.98	613.34	2.71%	Market Demand	0%	operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst athers, dismantling, sorting, crushing, compacting, crushing, compacting, conditioning, repackaging, seperating, blinding or mining prior to submission to any of the operations numbered R1 to R11 (if there is no other R to R11 (if there is no other R code appropriate, bits can include preliminary operations prior to recovery including pre-	0
20 01 39	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY	Plastic	629.98	613,34	2.71%	Market Demand	0%	operations numbered R1 to R11 (if there is no other R code preparate, this can include preliminary operations prior to recovery including preparate, the same and the recovery including preparations, southers, dismantling, southers, dismantling, southers, dismantling, compacting, crushing, compacting, prior to submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to can prior to experiment of the recovery including pre-	0
20 01 39	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY	Plastic	629.98	613.34	2.71%	Market Demand	0%	operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, dismontting, sorting, crushing, compacting, crushing, compacting, conditioning, repackaging, seperating, bineling or mixing prior to submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, dismontpling, sorting,	o
20 01 39	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY	Plastic	629.98	613,34	2.71%	Market Demand	0%	operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst athers, dismantling, sorting, crushing, compacting, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, bits can include preliminary operations prior to care to recovery including preprocessing such as amongst others, dismantling, sorting, crushing, compacting,	0
20 01 39	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY	Plastic	629.98	613.34	2.71%	Market Demand	0%	operations numbered R1 to R11 (If there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, dismontting, sorting, crushing, compacting, crushing, compacting, conditioning, repackaging, seperating, bineding or mixing prior to submission to any of the operations numbered R1 to R11 (If there is no other R code appropriate, this can include processing such as amongst others, dismonthing, sorting, crushing, compacting, crushing, compacting, crushing, compacting, crushing, compacting, crushing, compacting, eleitating, drying, shredding,	o
20 01 39	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY	Plastic	629.98	613.34	2.71%	Market Demand	0%	operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst athers, dismantling, sorting, crushing, compacting, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, bits can include preliminary operations prior to recovery including preprocessing such as amongst athers, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, preliming, organization, compacting, pelletising, drying, shredding, pelletising, drying, shredding, conditioning, repockaging,	0
20 01 39	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY	Plastic	629.98	613.34	2.71%	Market Demand	0%	operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preparation, and the state of the	0
20 01 39	(HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY		629.98	613.34	2.71%	Market Demand	0%	operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst athers, dismantling, sorting, crushing, compacting, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, bits can include preliminary operations prior to recovery including preprocessing such as amongst athers, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, preliming, organization, compacting, pelletising, drying, shredding, pelletising, drying, shredding, conditioning, repockaging,	0

		frame the said as the		Lic No:		W0106-02		Year	2017	
									RESERVATION OF THE PERSON OF T	
			(E CONTRACTOR OF THE PARTY	
1			1						R12-Exchange of waste for	
			1							1
		BOYER SHEET WATER	1			1			submission to any of the	
		THE STATE OF THE S	(1			operations numbered R1 to R11	
1			((if there is no other R code	- 1
I			(l 1			appropriate, this can include	- 1
		Man and the second of the seco	1	l.						- 1
		The second second second	1	- 1		1			preliminary operations prior to	
			1			1			recovery including pre-	
1		CAN PART OF THE PERSON NAMED IN	1						processing such as amongst	1
			1							
									others, dismantling, sorting,	1
		20- MUNICIPAL WASTES		1				1	crushing, compacting,	
		(HOUSEHOLD WASTE AND	(1			pelletising, drying, shredding,	
1		SIMILAR COMMERCIAL	6 1					1	conditioning, repackaging,	
1			1							
		INDUSTRIAL AND	(1					seperating, blending or mixing	
		INSTITUTIONAL WASTES)	1					1	prior to submission to any of	
		INCLUDING SEPARATELY	(1					the operations numbered R1 to	
			I amount of the second		0.00			V 2000		
	20 01 38	COLLECTED FRACTIONS	Timber / Wood	2,251.95	0	#DIV/01	Market Demand	0%	R11)	0
1		Bearing Street Control	1	9						
1			1	- 1		1		1	R12-Exchange of waste for	
			1	- 1					submission to any of the	
			1	7.5	I					
			4						operations numbered R1 to R11	
			4 1	1	1				(if there is no other R code	
			1		1	1			appropriate, this can include	
			(T	1	1	1				
			1	1:-					preliminary operations prior to	
			1						recovery including pre-	
			1	I					processing such as amongst	
		LATEL STATE OF THE	1							
			1	I					others, dismantling, sorting,	1
		20- MUNICIPAL WASTES	4			1 1			crushing, compacting,	1
		(HOUSEHOLD WASTE AND	f 1						pelletising, drying, shredding,	
			1	1		1				- 1
		SIMILAR COMMERCIAL,	4			1		1	conditioning, repackaging,	- 1
		INDUSTRIAL AND	4	I.				1	seperating, blending or mixing	- 1
		INSTITUTIONAL WASTES)	4	1				1	prior to submission to any of	
			4 1					1		1
1		INCLUDING SEPARATELY			-			1	the operations numbered R1 to	
	20 01 40	COLLECTED FRACTIONS	Metals		0	100.00%	Market Demand	0%	R11)	0
		NECKE STATE OF		0.00					Electric Section 1	
			4 1	l.				İ		1
			1 .	1				1	R12-Exchange of waste for	- 1
			1 1	- 1				1	submission to any of the	- 1
								1		- 1
								1	operations numbered R1 to R11	1
				I .				1-	(if there is no other R code	- 1
1			1			1				1
			1			1			appropriate, this can include	1
			1 1	1	_				preliminary operations prior to	
			4	1						
									recovery including pre-	
			1						recovery including pre-	
									processing such as amongst	
			-					-		
									processing such as amongst athers, dismantling, sorting,	
									processing such as amongst others, dismantling, sorting, crushing, compacting,	
									processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding,	
									processing such as amongst others, dismantling, sorting, crushing, compacting,	
		17. CONSTRUCTION AND							processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging,	
		17- CONSTRUCTION AND							processing such as amongst athers, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, seperating, blending or mixing	
		DEMOLITION WASTES							processing such as amongst athers, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of	
				,					processing such as amongst athers, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to	
	17.04.07	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Metals	437.82	452.63	-3,27%	Market Demand	0%	processing such as amongst athers, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of	0
	17 04 07	DEMOLITION WASTES	Metals	437.82	452.63	-3.27%	Market Demand	0%	processing such as amongst athers, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to	0
	17.04.07	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Metals	437.82	452.63	-3.27%	Market Demand	0%	processing such as amongst athers, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to	o
	17 04 07	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Metals	437.82	452.63	-3.27%	Market Demand	0%	processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	0
	170407	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Metals	437.82	452.63	-3.27%	Market Demand	0%	processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repeakaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11) R12-Exchange of waste for	o
	17 04 07	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Metals	437.82	452.63	-3.27%	Market Demand	0%	processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repeakaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11) R12-Exchange of waste for submission to any of the	0
	17.04.07	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Metals	437.82	452.63	-3.27%	Market Demand	0%	processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repeakaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11) R12-Exchange of waste for submission to any of the	o
	17 04 07	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Metals	437.82	452.63	-3.27%	Market Demand	0%	processing such as amongst others, dismanting, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repeakaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11) R12-Exchange of waste for submission to any of the operations numbered R1 to R11)	o
	170407	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Metals	457.82	452.63	-3.27%	Market Demand	0%	processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, pelletising, drying, shredding, seperating, blending ar mixing prior to submission to any of the operations numbered R1 to R11) R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code	0
	17.04.07	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Metals	437.82	452.63	-3.27%	Market Demand	0%	processing such as amongst athers, dismanting, aorthing, crushing, compacting, pelletising, drying, shredding, conditioning, repeakaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11. R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate is no other R code appropriate, bits can include	o
	17 04 07	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Metois	437.82	452.63	-3.27%	Market Demand	0%	processing such as amongst athers, dismanting, aorthing, crushing, compacting, pelletising, drying, shredding, conditioning, repeakaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11. R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate is no other R code appropriate, bits can include	0
	27.04.07	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Metals	437.92	452.63	-3.27%	Market Demand	0%	processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, pelletising, drying, shredding, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11) R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R add appropriate, this can include preliminary operations prior to	o
	17 04 07	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Metols	437.82	452.63	-3.27%	Market Demand	0%	processing such as amongst athers, dismanting, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repeckaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11! R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, bits can include preliminary operations prior to recovery including pre-	o
	170407	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Metals	457.82	452.63	-3.27%	Market Demand	0%	processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, pelletising, drying, shredding, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11) R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R add appropriate, this can include preliminary operations prior to	0
	17 04 07	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Metals	437.82	452.63	-3.27%	Market Demand	0%	processing such as amongst others, dismanting, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repeakaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11) R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code oppropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst	o
	170407	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Metals	457.82	452.63	-3.27%	Market Demand	0%	processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, pelletising, drying, shredding, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11) R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, dismantling, sorting,	0
	17 04 07	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES) 20- MUNICIPAL WASTES	. Arte to is	437.82	452.63	-3.27%	Morket Demond	0%	processing such as amongst others, dismorting, acriting, crushing, compacting, pelletising, drying, shredding, conditioning, repeakaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11) R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, dismonthing, sorting, crushing, compacting,	o
	17 04 07	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES)	Metals	437.82	452.63	-3.27%	Market Demand	0%	processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, pelletising, drying, shredding, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11) R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, dismantling, sorting,	o
	17.04.07	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED SITES) 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND	Metals	437.82	452.63	-3.27%	Market Demand	0%	processing such as amongst others, dismontling, sorting, crushing, compacting, pelletising, drying, shredding, pelletising, drying, shredding, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11 (R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (If there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, dismontling, sorting, crushing, compacting, compacting, compacting, compacting, compacting, compacting, compacting, crushing, compacting, chying, shredding,	o
	17 04 07	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL PROM CONTAMINATED SITES) 20-MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL,	Metols	437.82	452.63	-3.27%	Morket Demand	0%	processing such as amongst athers, dismanting, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repeakaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11). R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst athers, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, pelletising, drying, shredding, podditioning, repockaging, conditioning, repeakaging.	0
	170407	DEMOLITION WASTES (INCUDING EXCAVATED SOIL FROM CONTAMINATED SITES) 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND	Metals	457.82	452.63	-3.27%	Market Demand	0%	processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, pelletising, drying, shredding, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11) R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code oppropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, dismantling, sorting, crushing, compacting, prelietising, drying, shredding, conditioning, repackaging, seperating indiving princing propertions in the processing such as amongst others, dismantling, sorting, crushing, compacting, principle processing such as amongst others, dismantling, sorting, crushing, drying, shredding, conditioning, repackaging, seperations, pincling or mixing	o
	17 04 07	DEMOLITION WASTES (INCUDING EXCAVATED SOIL FROM CONTAMINATED SITES) 20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND	A/e to is	437.82	452.63	-3.27%	Market Demand	0%	processing such as amongst athers, dismanting, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repeakaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11). R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst athers, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, pelletising, drying, shredding, podditioning, repockaging, conditioning, repeakaging.	o
	17 04 07	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL PROM CONTAMINATED SITES) 20-MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL,	Metals Skips at treatment	457.82	452.63	-3.27%	Market Demand	0%	processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, pelletising, drying, shredding, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11) R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code oppropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, dismantling, sorting, crushing, compacting, prelietising, drying, shredding, conditioning, repackaging, seperating indiving princing propertions in the processing such as amongst others, dismantling, sorting, crushing, compacting, principle processing such as amongst others, dismantling, sorting, crushing, drying, shredding, conditioning, repackaging, seperations, pincling or mixing	0

VASTE SUMMARY				ı	ic No:	W0106-02		Year	2017	
			1	i i					R12-Exchange of waste for	
			1						submission to any of the	
			1						operations numbered R1 to R11	
			1						(If there is no other R code	1
			1	le le					appropriate, this can include	1
			1						preliminary operations prior to	1
			1						recovery including pre-	
			1 1						processing such as amongst	1
			1 1						others, dismantling, sorting,	
		A Company of the Comp							crushing, compacting,	
		The second second	1 1						pelletising, drying, shredding,	
		The second secon	1						conditioning, repackaging,	
									seperating, blending or mixing	
			1 1		1				prior to submission to any of	
		16- WASTES NOT OTHERWISE							the operations numbered R1 to	
	16 03 04	SPECIFIED IN THE LIST	Off Spec Product	2.38	17.04	-86.03%	Market Demand	0%	(R11)	0
					277					
		20- MUNICIPAL WASTES	1	- 1					R3-Recycling/reclamation or	
		(HOUSEHOLD WASTE AND	1						organic substances which are	
		SIMILAR COMMERCIAL,							not used as solvents(including	
		INDUSTRIAL AND							composting asnother biological	
		INSTITUTIONAL WASTES)	1		_				transformation	
		INCLUDING SEPARATELY							processes)which includes	
	20 01 08	COLLECTED FRACTIONS	Food Waste	15,483.71	14,082.28	9.95%	Market Demand	0%		0
								1	R12-Exchange of waste for	
									submission to any of the	
									operations numbered R1 to R11	
			1						(if there is no other R code	
			1						appropriate, this can include	
		The second second second	1						preliminary operations prior to	
			1		1	1			recovery including pre-	
			1 1		1				processing such as amongst	
			1 1		1	1			others, dismantling, sorting,	
			1 1						crushing, compacting,	
92.0		15- WASTE PACKAGING;	1 1		1	1			pelletising, drying, shredding,	
		ABSORBENTS, WIPING	1						conditioning, repackaging,	
			1						seperating, blending or mixing	
		CLOTHS, FILTER MATERIALS							prior to submission to any of	
	15 01 02	AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED	segregated plastic						the operations numbered R1 to	
	150102	NOT OTHERWISE SPECIFIED	packaging		0	0.00%	Market Demand	0%	R11)	0
			1					1	D12 Forkers of court for	
									R12-Exchange of waste for	
									submission to any of the	
									submission to any of the operations numbered R1 to R11	
				1					submission to any of the operations numbered R1 to R11 (if there is no other R code	
									submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include	
									submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to	
									submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary aperations prior to recovery including pre-	
									submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre- processing such as amongst	
									submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre- processing such as amongst others, dismantling, sorting,	
									submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre- processing such as amongst	
									submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre- processing such as amongst others, dismantling, sorting, crushing, compacting,	
									submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, diamantling, sorting, crushing, compacting, plelitisting, drying, shredding,	
		17- CONSTRUCTION AND							submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, diamanting, corting, crushing, compacting, pelletsing, drying, shreading, cronditioning, repackaging,	
		17- CONSTRUCTION AND DEMOLITION WASTES							submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, sheedding, conditioning, repackaging, seperating, bending or mising	
		DEMOLITION WASTES (INCLUDING EXCAVATED SOIL							submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst atters, diamantling, sorting, crushing, compacting, pelletisting, drying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of	
	17.08.02	DEMOLITION WASTES	Plasterboard / Gypsum	61.34	37.3	64.45%	Market Demand	Michigan	submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre- processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, prior to submission to any of the operations numbered R1 to	
	17.08.02	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Plasterboard / Gypsum	61.34	37.3	64,45%	Market Demand	0%	submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst atters, diamantling, sorting, crushing, compacting, pelletisting, drying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of	o
	170802	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Plasterboard / Gypsum	61.34	37.3	64,45%	Market Demand	0%	submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre- processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, prior to submission to any of the operations numbered R1 to	0
	17 08 02	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Plasterboard / Gypsum	61.54	37.3	64.45%	Market Demand	0%	submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shedding, conditioning, repackaging, seperating, bending or mising prior to submission to any of the operations numbered R1 to R11)	0
	170802	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Plasterboard / Gypsum	61.34	37.3	64.45%	Market Demand	0%	submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, diamantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repeakaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11).	0
	170802	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Plasterboard / Gypsum	61.34	37.3	64,45%	Market Demand	0%	submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shreedding, conditioning, repeakaging, objection of the operations of the operations numbered R1 to R11] R12-Exchange of waste for submission to any of the operations numbered R1 to R11]	Q
	170802	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Plasterboard / Gypsum	61.34	37.3	64.45%	Market Demand	0%	submission to any of the operations numbered R1 to R11 (if there is no other R code oppropriate, this can include preliminary operations priot to recovery including preprocessing such as amongst others, diamantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repeakaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11.	0
	170802	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Plasterboard / Gypsum	61.34	37.3	64.45%	Market Demand	0%	submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, diamantling, sorting, crushing, compacting, pelletising, driying, shredding, conditioning, repeakaging, seperating, blending or mising prior to submission to any of the operations numbered R1 to R11) R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code	o
	170802	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Plasterboard / Gypsum	61.34	37.3	64.45%	Market Demand	0%	submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, dismantling, sorting, crushing, compocting, compecting, compecting, expecting, including, repackaging, seperating, bedning or mising prior to submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include	0
	170802	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Plasterboard / Gypsum	61.34	37.3	64.45%	Market Demand	0%	submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preventions, prior to recovery including preprocessing such as amongst others, diamantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repeaching, bending or mixing prior to submission to any of the operations numbered R1 to R11) R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations to	o
	170802	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Plasterboard / Gypsum	61.34	37.3	64.45%	Market Demand	0%	submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, dismantling, sorting, crushing, compecting, compecting, electing, drying, sheedding, conditioning, repackaging, seperating, bedding or mising prior to submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include	0
	170802	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Plasterboard / Gypsum	61.34	37.3	64,45%	Market Demand	0%	submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preventions, prior to recovery including preprocessing such as amongst others, diamantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repeaching, bending or mixing prior to submission to any of the operations numbered R1 to R11) R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations to	O
	170802	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Plasterboard / Gypsum	61.34	37.3	64.45%	Market Demand	0%	submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst athers, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repeaking, pelletising, drying, shredding, conditioning, repeaking prior to submission to any of the operations numbered R1 to R11 [1].	0
	17 08 02	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Plasterboard / Gypsum	61.34	37.3	64.45%	Market Demand	0%	submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, septrating, blending or mixing prior to submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, dismantling, sorting,	o
	170802	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Plasterboard / Gypsum	61.34	37.3	64.45%	Market Demand	0%	submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, diamantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repeakaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11) R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to the recovery including preprocessing such as amongst others, dismantling, sorting, crushing, compacting,	0
	170802	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Plasterboard / Gypsum	61.34	37.3	64.45%	Market Demand	0%	submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repeakaging, seperating, blending or missing prior to submission to any of the operations numbered R1 to R11) R12-Eschange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, dismantling, compocting, crushing, compocting, crushing, compocting, crushing, compocting, piletissing, drying, shredding,	o
	170802	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Plasterboard / Gypsum	61.34	37.3	64.45%	Market Demand	0%	submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations priot to recovery including preprocessing such as amongst others, diamantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repeaching, blending or mixing prior to submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to submission to any of the covery including performancy operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including perforessing such as amongst others, diamantling, sorting, crushing, compacting, pelletsing, drying, shredding, conditioning, repeakaging,	0
	170802	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Plasterboard / Gypsum	61.34	37.3	64.45%	Market Demond	0%	submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preventions, prior to recovery including preprocessing such as amongst others, diamantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, reportaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11) R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations from the covery including precoressing such as amongst others, dismantling, sorting, crushing, compocting, pelletisting, drying, shredding, conditioning, repackaging, seperating, bending or mixing separating, bending or mixing	0
	170802	DEMOLITION WASTES (INCLUDING EXCAVATED SOIL	Plasterboard / Gypsum	61.34	37.3	64.45%	Market Demand	0%	submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations priot to recovery including preprocessing such as amongst others, diamantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repeaching, blending or mixing prior to submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to submission to any of the covery including performancy operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including perforessing such as amongst others, diamantling, sorting, crushing, compacting, pelletsing, drying, shredding, conditioning, repeakaging,	0

WASTE SUMMARY				Lic	No:	W0106-02		Year	2017		
	20 01 10	20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS	Clothes	0.12	4.72		Morket Demand		R12-Exchange of waste for submission to any of the operations numbered fl to R11 (fl there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, dismantling, sorting, crushing, compacting, crushing, competiting, crying, sheedding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	0	
	19 08 01	19- WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	Grit / Screenings				Market Demand		R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, dismantling, sorting, crushing, competing, compelletisting, drying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	0	
	15 01 03	15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING	wood packaging		o		Market Demand		R12-Exchange of waste for submission to any of the aperations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, dismontling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repeachaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	0	
	15 01 04	15- WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, EITER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED					. Market Demand		R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (If there is no other R code oppropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, dismantling, sorting, crushing, compacting, crushing, compacting, prepared to submission to any of the operations numbered R1 to R11)		

WASTE SUMMARY				Lic No:	W0106-02		Year	2017	
								R12-Exchange of waste for	
				1				submission to any of the	
				l .				operations numbered R1 to R11	
								(if there is no other R code	
i.			l i					appropriate, this can include	
								preliminary operations prior to	
								recovery including pre-	§
				1				processing such as amongst	
(8)								others, dismantling, sorting,	
1								crushing, compacting,	i - 1
								pelletising, drying, shredding,	
						1		conditioning, repackaging,	
			1		1			seperating, blending or mixing	
-								prior to submission to any of	
		16- WASTES NOT OTHERWISE	1					the operations numbered R1 to	
	16 06 04	SPECIFIED IN THE LIST	Alkaline Batteries		48 0.00%	Market Demand	0%	R11)	0
i i			1					R12-Exchange of waste for	
			1				-	submission to any of the	
			1				I I	operations numbered R1 to R11	
			1 1				1	(if there is no other R code	
			1 1					appropriate, this can include	
		A H S C S I C S S S S S S S S S S S S S S S	I I					preliminary operations prior to	
] [recovery including pre-	1
								processing such as amongst	
			1 1			1		others, dismantling, sorting,	
			I I					crushing, compacting,	
								pelletising, drying, shredding,	
		15- WASTE PACKAGING;	1	I .				conditioning, repackaging,	
		ABSORBENTS, WIPING						seperating, blending or mixing	
		CLOTHS, FILTER MATERIALS	1					prior to submission to any of	
		AND PROTECTIVE CLOTHING	1					the operations numbered R1 to	
	15 01 07	NOT OTHERWISE SPECIFIED	sorted glass		0.009	Market Demand	0%	R11)	0
	30.00%							THE RESERVE THE RESERVE AND ADDRESS OF	
		STATE OF STATE OF STATE OF		1		1		Marie Control of the Control of	
								R12-Exchange of waste for	
1		Market Control						submission to any of the	- 1
		The second second second						operations numbered R1 to R11	
								(if there is no other R code	
								appropriate, this can include	
		The Name of the State of the St						preliminary operations prior to	
								recovery including pre-	
								processing such as amongst	
				1				others, dismantling, sorting,	
								crushing, compacting,	
								pelletising, drying, shredding,	
								conditioning, repackaging.	
							1	seperating, blending or mixing	
								prior to submission to any of	
		16- WASTES NOT OTHERWISE						the operations numbered R1 to	
	16 02 13	SPECIFIED IN THE LIST	TVs and Monitors		0 0.009	Market Demand	0%	R11)	0
1]]					R12-Exchange of waste for	ă l
l l		A CONTRACTOR OF THE CONTRACTOR	1					submission to any of the	
		Alexander of the second	1			1		operations numbered R1 to R11	
		Market Market Control	1			1		(if there is no other R code	
1						1	1	appropriate, this can include	
			1			1	1	preliminary operations prior to	
								recovery including pre-	
							1	processing such as amongst	
1			F - 1					others, dismantling, sorting,	
			1	1		1		crushing, compacting,	
1		THE RESERVE OF THE PARTY OF THE						pelletising, drying, shredding.	
								conditioning, repackaging,	
		and the second second second						seperating, blending or mixing	
			1					prior to submission to any of	
		16- WASTES NOT OTHERWISE	Small domestic					the operations numbered R1 to	
-	16 02 14	SPECIFIED IN THE LIST	appliances		0 0.009	Market Demand	0%	R11)	0
								R5-Recycling/reclamation or	
			1			1			
l l		17- CONSTRUCTION AND				1		other inorganic materials which	
		DEMOLITION WASTES	1 1			1		includes soil celaning resuling in	
			1			1	1	recovery of the soil and recycling of inorganic	
		(INCLUDING EXCAVATED SOIL							

WASTE SUMMARY				Lic	No:	W0106-02		Year	2017	
	17 04 11	17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL FROM CONTAMINATED STES)	electric cables		0	0.00%	Market Demand	0%	R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic construction materials	o
	17 05 04		inert rubble and soils material		4,764.63	100.00%	Market Demand	0%	R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the sail and recycling of inorganic construction materials	o
	190501	19-WASTES FROM WASTE MANAGEMENT FACILITIES, OFF-SITE WASTE WATER TREATMENT PLANTS AND THE PREPARATION OF WATER INTENDED FOR HUMAN CONSUMPTION AND WATER FOR INDUSTRIAL USE	outthrow from compost			#DIV/OI	Market Demand	0%	R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this con include preliminary operations prior to recovery including pre-processing such as amongst others, dismandling, corting, caushing, compacting, pelletising, chrying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11)	o
		17- CONSTRUCTION AND DEMOLITION WASTES (INCLUDING EXCAVATED SOIL							R5-Recycling/reclamation or other inorganic materials which includes soil celaning resuling in recovery of the soil and recycling of inorganic	
	17 01 07 16 02 01	FROM CONTAMINATED SITES) 16-WASTES NOT OTHERWISE SPECIFIED IN THE LIST	Inert Waste Scrop Electronics / WEEE	4,207.36	23.12	#DIV/OI	Market Demand Market Demand		construction materials R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including pre-processing such as amongst others, dismonthing, corting, crushing, compecting, pelletisting, drying, shredding, conditioning, repockaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to R11	0
		20- MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY	Mixed Kerbiide						R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this con include preliminary operations prior to recovery including processing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repackaging, seperating, blending or mixing prior to submission to any of the operations numbered R1 to	

ASTE SUMMARY				Lic No:		W0106-02		Year	2017	
		Account to the same								
		MANUFACTURE STATE							Charles of the Charles of the Charles	- 1
		A CONTRACTOR		1					R12-Exchange of waste for	1
				1	1				submission to any of the	
			1		- 1				operations numbered R1 to R11	
			1						(if there is no other R code	
4			1	1					appropriate, this can include	
1		William Control Service		1	i				preliminary operations prior to	1
				1					recovery including pre-	
									processing such as amongst	
				1					others, dismantling, sorting,	- 1
		20- MUNICIPAL WASTES		-					crushing, compacting,	
		(HOUSEHOLD WASTE AND							pelletising, drying, shredding,	
		SIMILAR COMMERCIAL,		1					conditioning, repackaging,	
		INDUSTRIAL AND		1					seperating, blending or mixing	
		INSTITUTIONAL WASTES)		1					prior to submission to any of	
		INCLUDING SEPARATELY		1	1				the operations numbered R1 to	
	20 01 02	COLLECTED FRACTIONS	Glass	2,610.74	1,296.25	101.41%	Market Demand	0%	R11)	0
		20- MUNICIPAL WASTES							R3-Recycling/reclamation or	
		(HOUSEHOLD WASTE AND		- 1					organic substances which are	
		SIMILAR COMMERCIAL,						1	not used as solvents(including	
		INDUSTRIAL AND							composting asnother biological	
		INSTITUTIONAL WASTES)	eresson care as accom-	1					transformation	
		INCLUDING SEPARATELY	Sludge / Compostable	20000000	II CONSTANTANTO			1	processes)which includes	
	20 03 04	COLLECTED FRACTIONS	Materials	265.34	277.07	100.00%	Market Demand	0%	gasification and pyrolisis	0
									R12-Exchange of waste for	1
									submission to any of the	
			1	1					operations numbered R1 to R11	
1			1	- 1					(if there is no other R code	
			1							
								1	appropriate, this can include preliminary operations prior to	
		Barrier State of the State of t		1					recovery including pre-	
		40 11145755 50014111								
		18- WASTES FROM HUMAN	1	I					processing such as amongst	
		OR ANIMAL HEALTH CARE		I				le .	others, dismantling, sorting,	
		AND/OR RELATED RESEARCH	[[crushing, compacting,	
		(except kitchen and restaurant		I	-				pelletising, drying, shredding,	4
		wastes not arising from							conditioning, repackaging,	
		immediate RESEARCH (except							seperating, blending or mixing	
		kitchen and restaurant wastes		1				1	prior to submission to any of	
	100101	not arising from immediate	Non-Risk Healthcare			****	March at D		the operations numbered R1 to	0
	18 01 04	health care) 20- MUNICIPAL WASTES	Waste	0.46	4.74	100.00%	Market Demand	0%	R11)	U
		(HOUSEHOLD WASTE AND								
		SIMILAR COMMERCIAL,	1						State	
		INDUSTRIAL AND		1	1					
		INSTITUTIONAL WASTES)							D13- Blending or mixing prior	
		INCLUDING SEPARATELY	RDF (Baled Waste for	1					to submission to any of the	
	20 30 01	COLLECTED FRACTIONS	Export)	690.3	0	#DIV/OI	Market Demand	0%	operations numbered D1 to D12	0
				330.5				1		
		THE RESERVE OF THE PARTY OF THE		1					R12-Exchange of waste for	
								1	submission to any of the	
									operations numbered R1 to R11	
			The state of the s	- 1			I	1	(if there is no other R code	
			The state of the	- 1			1	1	appropriate, this can include	
				1			1		preliminary operations prior to	
				1					recovery including pre-	
				1			I		processing such as amongst	
		19- WASTES FROM WASTE					1	1	others, dismantling, sorting,	
		MANAGEMENT FACILITIES,							crushing, compacting,	
1		OFF-SITE WASTE WATER	E TOTAL TOTAL						pelletising, drying, shredding,	
Į.		TREATMENT PLANTS AND THE	STATE THE				1		conditioning, repackaging,	. I
1		PREPARATION OF WATER						1	seperating, blending or mixing	
[-		INTENDED FOR HUMAN		1					prior to submission to any of	
		CONSUMPTION AND WATER	Bull Hard Hard						the operations numbered R1 to	
	19 08 09	FOR INDUSTRIAL USE	Grease	0	0.72	100.00%			R11)	
	27 00 07	20- MUNICIPAL WASTES		-	0.72				SECTION OF SECTION AS	
		(HOUSEHOLD WASTE AND	A THE COUNTY IN A							
-		SIMILAR COMMERCIAL								
Į.		INDUSTRIAL AND	almanitistic to All				1			
		INSTITUTIONAL WASTES)		1					D13- Blending or mixing prior	
		INSTITUTIONAL WASTES)					1	1		1
								1	to submission to any of the	
	20 03 07	INCLUDING SEPARATELY COLLECTED FRACTIONS	Bulky Waste	161.96	348.73	100.00%			to submission to any of the operations numbered D1 to D12	

SELECT UNIT SELECT UNIT SELECT UNIT

ASTE SUMMARY			Lic No:	W0106-02	Year	2017
13 08 99	13 - OIL WASTES AND WASTES OF LIQUID FUELS (EXCEPT EDIBLE OILS, AND THOSE IN CHAPTERS 5, 12 AND 19)	ОП	0	5.34 100.00%		R12-Exchange of waste for submission to any of the operations numbered R1 to R11 (if there is no other R code appropriate, this can include preliminary operations prior to recovery including preprocessing such as amongst others, dismantling, sorting, crushing, compacting, pelletising, drying, shredding, conditioning, repockaging, seperating, bending or mixing prior to submission to any of the operations numbered R1 to R11)

SECTION C-TO BE COMPLETED BY ALL WASTE FACILITIES (waste transfer stations, Composters, Material recovery facilities etc) EXCEPT LANDFILL SITES

4 Is all waste processis	ng infrastructure as required by	vous Beanes and appear	ad books a second to also	216	cessing infrastructure required opsite

- 5 Is all waste storage infrastructure as required by your licence and approved by the Agency in place? If no please list waste storage infrastructure required on site
- Does your facility have relevant nuisance controls in place?
 Do you have an odour management system in place for your facility? If no why?
 Do you maintain a sludge register on site?

SECTION D-TO BE COMPLETED BY LANDFILL SITES ONLY

able 2 Waste type	and tonnage-landfill only			
Waste types permitted for disposal	Authorised/licenced annual intake for disposal (tpa)	Actual intake for disposal in reporting year (tpa)	Remaining licensed capacity at end of reporting year (m3)	Comments

Area ID	Date landfilling commenced	Date landfilling ceased	Currently landfilling	Private or Public	Inert or non-hazardous	Predicted date to	Licence permits	Is there a separate cell	Accepted asbestos in reporting	area occupied by	Lined disposal area occupied by waste	Unlined area	Comments on
Table 3 General info	ormation-Landfill only												

WASTE SUMMARY					Lic No:	W0106-02		Year	20	117
Table 4 Environme	ntal monitoring-landfill only	Landfill Manual-Monitoring Star	ndards							
Was meterological monitoring in compliance with Laudfill Directive (LD) standard in reporting year +	Was leachate monitored in compliance with LD standard in reporting year	Was Laudfill Gas monitored in compliance with LD standard in reporting year	Was SW monitored in compliance with LD standard in reporting year	Have GW trigger levels been established	Were emission limit values agreed with the Agency (ELVs)	Was topography of the site surveyed in reporting year	Has the statement under S53(A)(5) of WMA been submitted in reporting year	Comments		
+ please refer to Landfill	 Manual linked above for relevant Landf	Ill Directive monitoring standards					2.50			
rable 5 capping-La	indilii only					1	7			
Area uncapped*	Area with temporary cap			Area with waste that should be permanently						
*please note this include Table 6 Leachate-L	andfill only	Area with final cap to LD Standard m2 ha, a	Area capped other	capped to date under licence	What materials are used in the cap	Comments				
*please note this include Table 6 Leachate-L Is leachate from your site Is leachate released to s	s daily cover area	Standard m2 ha, a lant? chate mass load information below		licence	What materials are used in the cap	SELECT SELECT	<u> </u>	1		
*please note this include Table 6 Leachate-L Is leachate from your sit- Is leachate released to s Volume of leachate in	es daily cover area andfill only e treated in a Waste Water Treatment Pl	Standard m2 ha, a			What materials are used in the cap Leachate treatment on-site	SELECT	t Comments]		
*please note this include Table 6 Leachate-L Is leachate from your sit is leachate released to s Volume of leachate in reporting year(m3)	is daily cover area andfill only t treated in a Waste Water Treatment Pl urface water? If yes please complete lea Leschate (BOD) mass load (kg/annum) Please ensure that all information or	Standard m2 hs, a ant? chate mass load information below Leachate (COD) mass load (kg/sansum)	Leachate (NH4) mass load (kg/sanum)	licence Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	SELECT SELECT Specify type of	t Comments]		
*please note this include Table 6 Leachate-L Is leachate from your sit- Is leachate released to s Volume of leachate in	is daily cover area andfill only t treated in a Waste Water Treatment Pl urface water? If yes please complete lea Leschate (BOD) mass load (kg/annum) Please ensure that all information or	Standard m2 hs, a ant? chate mass load information below Leachate (COD) mass load (kg/sansum)	Leachate (NH4) mass load (kg/sanum)	licence Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	SELECT SELECT Specify type of	t Commeats]		
*please note this include Table 6 Leachate-L Is leachate from your sit is leachate released to s Volume of leachate in reporting year(m3)	is daily cover area andfill only t treated in a Waste Water Treatment Pl urface water? If yes please complete lea Leschate (BOD) mass load (kg/annum) Please ensure that all information or	Standard m2 hs, a ant? chate mass load information below Leachate (COD) mass load (kg/sansum)	Leachate (NH4) mass load (kg/sanum)	licence Leachate (Chloride) mass load kg/annum	Leachate treatment on-site	SELECT SELECT Specify type of	t Comments]		



Appendix B:

AER / PRTR Workbook for 2017



| PRTR# : W0106 | Facility Name : Bruscar Bhearna Teoranta (Carrowbrowne) | Filename : W0106_2017 PRTR Final.xls | Return Year : 2017 |

Guidance to completing the PRTR workbook

PRTR Returns Workbook

REFERENCE YEAR 2017

1	FA	CII	ITY	IDENT	TIFICA"	TION

Parent Company Name	Bruscar Bhearna Teoranta
Facility Name	Bruscar Bhearna Teoranta (Carrowbrowne)
PRTR Identification Number	W0106
Licence Number	W0106-02

3	Classes of Activity
	No. class_name
	- Refer to PRTR class activities below

Address 1	Carrowbrowne
Address 2	Headford Road
Address 3	Galway
Address 4	
	Galway
Country	Ireland
Coordinates of Location	-9.01825 53.3301
River Basin District	IEWE .
NACE Code	
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Campbell Finnie
AER Returns Contact Email Address	cfinnie@barnawaste.com
AER Returns Contact Position	
AER Returns Contact Telephone Number	
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	100000.0
Production Volume Units	
Number of Installations	
Number of Operating Hours in Year	4180
Number of Employees	
User Feedback/Comments	No issues with reporting 2017 data. Only difference more than 50%
	were with water monitoring results and all results were within
	specification so no issues.
Web Address	www.barnarecycling.com

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5(c)	Installations for the disposal of non-hazardous waste
5(c)	Installations for the disposal of non-hazardous waste
50.1	General

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

3. SOLVENTS REGULATIONS (S.I. NO. 543 OF 20	002)
Is it applicable?	No
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

| PRTR# : W0106 | Facility Name : Bruscar Bhearna Teoranta (Carrowbrowne) | Filename : W0106_2017 PRTR Final.xls | Return Year : 2017 |

27/03/2018 07:40

SECTION A: SECTOR SPECIFIC PRTR POLLUTANTS

	RELEASES TO AIR	77107656			Please enter all quantities	in this section in KG	SS
POLLUTANT		METHOD			QUANTITY		
	Name			Method Used	THE RESERVE WAS A STATE OF		
No. Annex II		M/C/E	M/C/E Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year F (Fugitive) KG/Yea
					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

A STATE OF COMMENTAL CONTRACTOR OF CONTRACTO	RELEASES TO AIR	Please enter all quantities in this section in KGs								
POLLUTANT		METHOD		QUANTITY						
No. Annex II	Name	M/C/E Method Code	Method Used Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year			
* \$6	elect a row by double-clicking on the Pollutant Name (Colum	nn B) then click the delete button		0.0	0	0.0 0.0				

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

	RELEASES TO AIR			Please enter all quantitie	s in this section in KC	SS	Section and the second	
POLLUTANT		MI	ETHOD	QUANTITY				
Pollutant No.			Method Used					
Tollotalit 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	
				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:

Bruscar Bhearna Teoranta (Carrowhrauma)

Euroriii.	bruscar Briearna Teoranta (Carrowbrowne)					
Please enter summary data on the quantities of methane flared and / or utilised			Meti	nod Used		
	T (Total) kg/Year	M/C/E	Method Code	Designation or	Facility Total Capacity m3	
Total estimated methane generation (as per	· (Total) right out	MICIE	Metriod Code	Description	per hour	
site model)	0.0				N/A	
Methane flared						(Total Flaring Capacity)
Methane utilised in engine/s						(Total Utilising Capacity)
Net methane emission (as reported in Section					0.0	(Total Otilishing Capacity)
A above)	0.0				N/A	

4.2 RELEASES TO WATERS

Link to previous years emissions data

PRTR# : W0106 | Facility Name : Bruscar Bhearna Teoranta (Carrowbrowne) | Filename : W0106_2017 PRTR Final.xls | Return Year : 2017 |

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SECTION A: SECTOR SPECIFIC PRTR POLLUT	Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this on										
RELEASES TO WATERS			Please enter all quantities in this section in KGs								
POLLUTANT			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			
		KENTER			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 WATERS					Please enter all quantities in this section in KGs					
POLLUTANT				THE RESERVE OF THE PARTY OF THE			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 WATERS					Please enter all quantities in this section in KGs				
POLLUTANT				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	
					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

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

| PRTR# : W0106 | Facility Name : Bruscar Bhearna Teoranta (Carrowbrowne) | Filename : W0106_

27/03/2018 07:40

SECTION A: PRTR POLLUTANTS

	OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE	-WATER TREATMENT OR	SEWER		Please enter all quan	tities in this section in K	Gs	
	POLLUTANT		METHOD			QUANTITY		
No. Annex II			Method Used				THE PROPERTY OF THE PROPERTY O	
NO. ATTIREX 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	
		SHIP CONTROL OF THE PARTY OF TH				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 POLLUTANT EMISSIONS (as required in your Licence)

THE RESERVE AND THE PARTY OF TH	OFFSITE TRANSFER OF POLLUTANTS DESTINED FO	R WASTE-WATER TREATMENT OF		THE REPORT OF THE PARTY OF THE	Please enter all quantities	in this section in KGs			
	POLLUTANT		MI	THOD	QUANTITY				
Pollutant No.		STREET,		Method Used	BECKELLING HELDER PURCH				
Promoternt INO.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
				ISO - 17025 - Based pn					
306	200			USEPA approved Hach					
306	COD	M	ALT	Method 8000	106.438	106.438	0.0	0.0	
				ISO - 17025 - Standard					
				Methods for the					
200				Examination of Water and					
303	BOD	M	ALT	Wastewater, 21ed, 2005	26.235	26.235	0.0	0.0	
				ISO - 17025 - Standard					
				Methods for the					
				Examination of Water and					
314	Fats, Oils and Greases	M	ALT	Wastewater, 21ed, 2005	4.05	4.05	0.0	0.0	
				ISO - 17025 - Standard			0.0	0.0	
				Methods for the					
				Examination of Water and					
240	Suspended Solids	M	ALT	Wastewater, 21ed, 2005	54.042	54.042	0.0	0.0	
				Based on Sulphate in	04.042	04.042	0.0	0.0	
				Waters Effluents and Soils.					
				2nd Edition (1988), Method					
343	Sulphate	M	ALT	E.	3.649	3.649	0.0	0.0	
				Salicylate method based	3.043	3.048	0.0	0.0	
				on Methods for the					
				examination of water and					
				associated materials,					
238	Ammonia (as N)	M	ALT		0.005	0.005	0.0	0.0	
238	Ammonia (as N)	M	ALT	Ammonia in waters, 1981	0.065	0.065	0.0		

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

4.4 RELEASES TO LAND

Link to previous years emissions data

| PRTR# : W0106 | Facility Name : Bruscar Bhearna Teoranta (Carrowbrowne) | Filename : W0106_2017 PRTR Final.xls | Return Year : 2017 |

27/03/2018 07:40

SECTION A: PRTR POLLUTANTS

		SES TO LAND		阿拉拉克 (1985年)	Please enter all quant	tities in this section in KC	is	
the state of the s	POLLUTANT	George Control of the	Mi	THOD		anneagy Jessey (to an an asset	QUANTITY	
			Method Used				AVI PROTESTA MUSICANIA	
o. Annex II Name		M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	
		ALL STATE OF THE S			RELIGIOUS PARTICIPATION OF THE	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 POLLUTANT EMISSIONS (as required in your Licence)

	RELEASES	TO LAND		Please enter all quant	ities in this section in KGs	
	POLLUTANT		METHOD			QUANTITY
		STORES CO.	Method Used	SERVICE STATE OF THE PARTY OF		THE PROPERTY OF THE PARTY OF TH
Pollutant No.	Name	M/C/E	Method Code Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) 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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE | PRTR#: W0106 [Facility Name : Bruscar Bhearna Teoranta (Carrowbrowne) | Filename : W0106 2017 PRTR Final xis | Return Year : 2017 |

			Quantity (Tonnes per						Haz Waste: Name and Licence/Permit No of Next Destination Facility Haz Waste: Name and Licence/Permit No of	Haz Waste: Address of Next Destination Facility Non Haz Waste: Address of	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE	Actual Address of Final Destinat i.e. Final Recovery / Disposal Si
ansfer Destination	European Waste Code	Hazardous	Year)	Description of Waste	Waste Treatment Operation	M/C/E	Method Used Method Used	Location of Treatment	Recover/Disposer	Recover/Disposer	ONLY)	(HAZARDOUS WASTE ONLY
ithin the Country	16 01 03	No		end-of-life tyres mixture of concrete, bricks, tiles and	R12	М	Weighed	Offsite in Ireland	Combesgate Ireand,WFP- LH-15-0002-01	Donore Industrial Estate, Drogheda, County Louth , Ireland, Ireland		
ithin the Country	17 01 07	No	4261.38	ceramics other than those mentioned in 17 01 06	R12	М	Weighed	Offsite in Ireland		Carrowbrowne,Headford Road,Galway,.,Ireland		
ithin the Country	16 01 03	No		end-of-life tyres non-composted fraction of municipal and	R12	М	Weighed	Offsite in Ireland	MSM Recyling, WFP-TN-11- 0003-02 Drehid Waste Management	Birr,,Co Offaly,,Ireland		
ithin the Country	17 08 02	No		similar wastes	D5	М	Weighed	Offsite in Ireland	Facility,W0201-01	Drehid,,Co. Kildare,Ireland Veerplaat ,40 3313 LJ		
Other Countries	19 12 01	No	3257.16 p	paper and cardboard	R12	M	Weighed	Abroad	Peute Papier Recycling ,DC 02.2017 MDO Recycling UK Ltd	,Rotherdam,Netherlands		
Other Countries	10.12.01	No	2000 00 1	Mind Page		44			(Broker),NSO/544843/B - Broker Number & IRE/G069/08 TFS	11 Alvaston Business Park , Middlewich Road ,Nantwich ,Cheshire CW5 6PF ,United		
Outer Countries	19 12 01	NO	2090.62	Mixed Paper	R12	М	Weighed	Abroad	Registration No Northwood Recycling Ltd,Broker licence:	Grant House, Stafford Park 12, Telford, Shropshire TF3		
Other Countries	19 12 01	No	249.48 M	Multigrade paper	R12	M	Weighed	Abroad	IRE/G282/12	3BJ,United Kingdom Ballmacken Industrial		
Other Countries	19 12 01	No	2365.9 (Cardboard - OCC	R12	М	Weighed	Abroad	Agnail Ltd,Broker	Estate,Ballmacken,Portlaois e,Laois,Ireland		
Other Countries	19 12 01	No	20.86 (Cardboard - OCC	R12	М	Weighed	Abroad	Boost Recycling Ltd,IRE/G082/15 Northwood Recycling	47 Swaffham Rd UK,Burwell,Cambridge ,CB25 0AN,United Kingdom Grant House,Stafford Park		
Other Countries	19 12 01	No	464.4 \$	Shredded Office Paper	R12	М	Weighed	Abroad	Ltd,Broker licence: IRE/G282/12	12,Telford,Shropshire TF3 3BJ,United Kingdom Veerplaat ,40 3313 LJ		
Other Countries	19 12 01	No	449.3 (Cardboard - OCC	R12	М	Weighed	Abroad	Peute Papier Recycling ,DO 02.2017 MDO Recycling UK Ltd	,Rotherdam,Netherlands		
Other Countries	19 12 01	No	815.76	Cardboard - OCC	R12	М	Weighed	Abroad	(Broker),NSO/544843/B - Broker Number & IRE/G069/08 TFS Registration No Cellmark (Broker),Irish TFS Broker Licence -	11 Alvaston Business Park , Middlewich Road ,Nantwich ,Cheshire CW5 6PF ,United Kingdom		
Other Countries	19 12 01	No	496.96	Cardboard - OCC	R12	М	Weighed	Abroad	IRE/G181/11 and IRE/G180/12	.,,lreland		
thin the Country	19 12 02	No	1423.82 fe	ferrous metal	R12	М	Weighed	Offsite in Ireland	Galway Metal Recycling,WR/05	Oranmore ,Co.Galway		
thin the Country	19 12 02	No	14.3 S	Steel cans (alu)	R12	М	Weighed	Offsite in Ireland	Green Dragon Recycling Ltd,IRE/G074/15	Caherlag, Glanmire, Co Cork,., Ireland Radnor Park Industrial		
Other Countries	19 12 02	No	18.36 S	Steel Cans (alu)	R12	М	Weighed	Abroad	Tandom Recycling,EPR/QP/3634KX	Estate, Congleton, Cheshire, Cheshire, United Kingdom		
Other Countries	19 12 02	No	29.8 S	Steel cans (alu)	R12	M	Weighed	Abroad	WRC Recycling ,IRE/G068/08	Auchans Road ,Houston ,Johnstone Renfrewshire ,PA6 7EE ,United Kingdom		

					Quantity (Tonnes per						Haz Waste: Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of	Destination Facility Non Haz Waste: Address of	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE	Actual Address of Final Destination
	ransfer Destina	ation	European Waste Code	Hazardous	Year)	Description of Waste	Waste Treatment Operation		Method Used Method Used	Location of Treatment	Recover/Disposer	Recover/Disposer	ONLY)	(HAZARDOUS WASTE ONLY)
7	o Other Countr	ries 1	9 12 02	No	61.1	steel cans	R12	М	Weighed	Abroad	WRC Recycling ,IRE/G068/08	Auchans Road ,Houston ,Johnstone Renfrewshire ,PA6 7EE ,United Kingdom		
1	o Other Countr	ries 1	19 12 01	No	228.44	Mixed Paper	R12	М	Weighed	Abroad	Boost Recycling Ltd,IRE/G082/15	47 Swaffham Rd UK,Burwell,Cambridge ,CB25 0AN,United Kingdom Ballmacken Industrial		
Т	o Other Countr	ries 1	9 12 01	No	227.2	paper and cardboard	R12	М	Weighed	Abroad	Agnail Ltd,Broker	Estate,Ballmacken,Portlaois e,Laois,Ireland		
7	o Other Countr	ries 1	9 12 02	No	174.38	steel cans	R12	М	Weighed	Abroad	Boost Recycling Ltd,IRE/G082/15	47 Swaffham Rd UK,Burwell,Cambridge ,CB25 0AN,United Kingdom Clermont Business Park		
٧	Vithin the Coun	itry 1	9 12 04	No	144.28	Hard Plastic	R12	М	Weighed	Offsite in Ireland	Leinster Environmental,WP 2008/06	,Haggardstown ,Dundalk ,Co.Louth,Ireland Clermont Business Park		
V	vithin the Coun	ntry 1	9 12 04	No	24.06	Clear plastic film	R12	М	Weighed	Offsite in Ireland	Leinster Environmental,WP 2008/06	,Haggardstown ,Dundalk ,Co.Louth,Ireland		
7	o Other Countr	ries 1	9 12 04	No	174.04	Clear plastic film	R12	М	Weighed	Abroad	WRC Recycling ,IRE/G068/08	Auchans Road ,Houston ,Johnstone Renfrewshire ,PA6 7EE ,United Kingdom Clermont Business Park		
٧	ithin the Coun	ntry 1	9 12 04	No	25.0	mixed plastic film	R12	М	Welghed	Offsite in Ireland	Leinster Environmental,WP 2008/06	,Haggardstown ,Dundalk ,Co.Louth,Ireland		
1	o Other Countr	ries 1	9 12 04	No	316.94	mixed plastic film	R12	M	Weighed	Abroad	WRC Recycling ,IRE/G068/08	Auchans Road ,Houston ,Johnstone Renfrewshire ,PA6 7EE ,United Kingdom		
Т	o Other Countr	ries 1	9 12 04	No	58.34	Mixed plastics	R12	М	Weighed	Abroad	WRC Recycling ,IRE/G068/08	Auchans Road ,Houston ,Johnstone Renfrewshire ,PA6 7EE ,United Kingdom		
7	o Other Countr	ries 1	9 12 04	No	480.84	Plastic Bottles - PET	R12	М	Weighed	Abroad	WRC Recycling ,IRE/G068/08	Auchans Road ,Houston ,Johnstone Renfrewshire ,PA6 7EE ,United Kingdom		
Т	o Other Countr	ries 1	9 12 04	No	38.18	Hard Plastic	R12	М	Weighed	Abroad	WRC Recycling ,IRE/G068/08	Auchans Road ,Houston ,Johnstone Renfrewshire ,PA6 7EE ,United Kingdom		
1	o Other Countr	ries 1	9 12 04	No	176.12	HDPE Plastic Bottles	R12	М	Weighed	Abroad	WRC Recycling ,IRE/G068/08	Auchans Road ,Houston ,Johnstone Renfrewshire ,PA6 7EE ,United Kingdom		
Т	o Other Countr	ries 1	9 12 04	No	162.02	Plastic trays	R12	М	Weighed	Abroad	WRC Recycling ,IRE/G068/08 Cloughwater	Auchans Road ,Houston ,Johnstone Renfrewshire ,PA6 7EE ,United Kingdom Rosemount		
V	ithin the Coun	itry 1	9 12 04	No	61.12	Hard Plastic	R12	М	Weighed	Offsite in Ireland	Plastics, WFP/FG/08/0002/0	Road,8A,Ballycoolin,Dublin 15,Ireland		

1		-												
					Quantity (Tonnes per Year)				Method Used		Haz Waste : Name and Licence/Permit No of Next Destination Facility Haz Waste: Name and Licence/Permit No of	Haz Waste: Address of Next Destination Facility Non Haz Waste: Address of	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE	Actual Address of Final Destination
			22-1-1-1-1-1-1-1		,		Waste		Wediod Osed		Recover/Disposer	Recover/Disposer	ONLY)	(HAZARDOUS WASTE ONLY)
	Transfer Des	tination	European Waste Code	Hazardous			Treatment			Location of				
1	Transfer Des	unauon	Code	mazardous		Description of Waste	Operation	M/C/E	Method Used	Treatment				
	Within the Co	ountry	19 12 04	No	43.88	Plastic Bottles PET	R12	М	Weighed	Offsite in Ireland	Leinster Environmental,WP 2008/06 Rehab Glassco Ltd,Waste	Clermont Business Park Haggardstown ,Dundalk ,Co.Louth,Ireland Unit 4 Osberstown Industrial Park,Caragh		
	Within the Co	ountry	15 01 07	No	2566.76	glass packaging	R12	М	Weighed	Offsite in Ireland	Permit No. WFP-KE-08- 0357-01	Road,Naas,County Kildare,Ireland		
	Within the Co	ountry	19 12 07	No	2028.3	wood other than that mentioned in 19 12 06	R3	М	Volume Calculation	Offsite in Ireland	Barna Waste (Composting Facility),EPA Licence 106/2	Carrowbrowne, Headford Road, Galway,, Ireland		
	Within the Co	ountry	19 12 05	No	73.38	glass	R5	М	Weighed	Offsite in Ireland	John Gannon Concrete Ltd,Permit Number WFP- WM-2009-0007-01	Split Hill Quarry,Hazelwood ,Kilbeggan,County Westmeath,Ireland		
	Within the Co	ountry	20 03 07	No	3.14	bulky waste Matresses	R12	М	Weighed	Offsite in Ireland	01	Ballybane Industrial Estate,Ballybane ,Galway,Galway,Ireland		
	Within the Co	ountry	19 12 07	No	1067.3	wood other than that mentioned in 19 12 06	D5	М	Weighed	Offsite in Ireland		Ballina,,County Mayo,Ireland		
	Within the Co	ountry	19 12 07	No		wood other than that mentioned in 19 12 06		М	Weighed		Drehid Waste Management Facility, W0201-01	Drehid,,Co. Kildare,Ireland		
	Within the Co	ountry	19 12 07	No	828.19	wood other than that mentioned in 19 12 06	D5	М	Weighed	Offsite in Ireland	East Galway Landfill,W0178- 02 OCR Waste	Kilconnell,,County Galway,Ireland		
	Within the Co	ountry	19 12 07	No	1186.53	wood other than that mentioned in 19 12 06	R12	М	Weighed	Offsite in Ireland		Roxboro,.,Co Roscommon,.,Ireland		
	Within the Co	ountry	20 03 01	No	11728.48	mixed municipal waste	D1	М	Weighed	Offsite in Ireland	02	Galway,Ireland Kiffagh,Crosserlough,Ballyja		
	Within the Co	ountry	19 12 10	No	1007.86	combustible waste (refuse derived fuel)	R1	М	Weighed	Offsite in Ireland	Wilton Waste Recycling Ltd,WFP-CN-10-0005-01	mesduff,County Cavan,Ireland 4F Fingal Bay Business		
	Within the Co	ountry	19 12 10	No	466.38	combustible waste (refuse derived fuel)	R1	М	Weighed	Offsite in Ireland	Pacon Waste & Recycling Ltd,Not applicable	Park,Balbriggan,Co Dublin,,Ireland Quinn Road Business		
	Within the Co	ountry	19 12 12	No	6458.48	Mechanically Treated Municipal Waste	R12	М	Welghed			Park,Quinn Road Business Park,Ennis,Co Clare,Ireland		
	Within the Co	ountry	19 12 10	No	52.88	combustible waste (refuse derived fuel)	R3	М	Weighed		Pacon Waste & Recycling Ltd,Not applicable	4F Fingal Bay Business Park,Balbriggan,Co Dublin,,,Ireland		
1	Within the Co	untry	20 03 01	No	241.86	Mixed Municipal Waste for Landfill	D1	М	Weighed	Offsite in Ireland	Drehid Waste Management Facility,W0201-01	Drehid,,Co. Kildare,Ireland		
	Within the Co	untry	19 12 12	No	24.5	General Waste (baled)	R12	М	Weighed		Indaver Ireland,EPA Licence W0167-02	Carranstown ,Duleek,County Meath,.,Ireland		
1	Within the Co	untry	19 12 12	No	28.84	Mechanically Treated Municipal Waste	R12	М	Welghed			Carranstown ,Duleek,County Meath,,Ireland Larch		
1	Within the Co	untry	19 12 12	No	27.72	mixed municipal waste (fines)	R3	M	Weighed	Offsite in Ireland	Enrich Environmental,P1013- 01	Hill,Kilcock,Meath,County Meath,Ireland		
1	Within the Co	untry	20 03 01	No	74.52	mixed municipal waste	D1	М	Weighed		East Galway Landfill,W0178- 02	Kilconnell,,County Galway,Ireland		
,	Within the Co	untry	19 12 12	No	221.0	Mechanically Treated Municipal Waste	R12		Weighed		Greenstar Limerick,W0082- 03	Ballykeefe Townland,Dock Road,Limerick,.,Ireland		
1	Within the Co	untry	20 01 08	No	31.86	biodegradable kitchen and canteen waste	R3	М	Weighed	Offsite in Ireland		Donegal Road, Pettigo, Co. Donegal, ,, Ireland		

-												
									Haz Waste : Name and			
									Licence/Permit No of Next			
			Quantity						Destination Facility Non	Haz Waste : Address of Next	Name and License / Permit No. and	
			(Tonnes per						Haz Waste: Name and Licence/Permit No of	Destination Facility	Address of Final Recoverer /	Actual Address of Final Destination
			Year)				Method Used		Recover/Disposer	Non Haz Waste: Address of Recover/Disposer	Disposer (HAZARDOUS WASTE ONLY)	I.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
					Waste		Wicaroa Osca	-	Trecover/Disposer	Nacoval/Disposal	ONL1)	(HAZARDOUS WASTE ONLT)
	European Waste				Treatment			Location of				
Transfer Destination	Code	Hazardous		Description of Waste	Operation	M/C/E	Method Used	Treatment				
				Description of Tracto	Орстаноп	TIVECIL	Iweniou oseu	Headinent	Local Farmers, Not	Various		
Within the Country	20 01 08	No	3100 53	Compost Processed no longer a waste	R10	M	Weighed	Offsite in Ireland		Addresseslreland		
				The state of the length a waste	1110	141	Treighted	Offsite in iteratio	Applicable	Glen Abbey		
										Complex,Belgard		
									Textile Recycling Ltd, Permit	Road, Tallaght, Dublin		
Within the Country	20 01 11	No	0.88	textiles	R12	M	Weighed	Offsite in Ireland	Number WPR-014	24,Ireland		
O CONTRACTOR OF STREET		1000	0.00		1112	141	Vicigiled	Official III II cianu	Indaver Export, Export via	Dublin, Dublin, Dublin, Dublin, I		
To Other Countries	19 12 12	No	30562.83	Mechanically Treated Municipal Waste	R12	M	Weighed	Abroad	TFS	reland		
			00002.00	modifically fronted Marifoldar Waste	1112	IVI	vveigned	Autoau	11-3	relatio		
										South County Business Bady		
				discarded electrical and electronic						South County Business Park ,Whelan House,Carmanhall		
				equipment other than those mentioned in						and Leopardstown, Dublin		
Within the Country	20.01.36	No	55.1		R12	M	Weighed	Offsite in Ireland	WEEE Ireland,0			
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	200.00	110	00.1	20 01 21, 20 01 20 Bild 20 01 30	1112	IVI	weighted	Offsite in freiand	First Class	18,Ireland		
										Ballybane Industrial Estate,Ballybane		
Within the Country	20 03 07	No	38.2	bulky waste	R12	М	Weighed	Offsite in Ireland				
vitami are country	20 00 01	140	30.2	bulky waste	KIZ	IVI	weighed	Offsite in Ireland	01	,Galway,Galway,Ireland		
									Enrich Environmental,P1013	Larch		
Within the Country	19 12 12	No	2683 22	mixed municipal waste (fines)	R3	М	Weighed	Offsite in Ireland		Meath, Ireland		
Wildim are country	10 12 12	140	2000.22	mixed monicipal waste (mies)	No	IVI	vveigned	Offsite in freiand	East Galway Landfill, W0178-			
Within the Country	20.03.01	No	366.0	mixed municipal waste	D1	М	Weighed	Offsite in Ireland				
Triamirate Country	20 00 01	110	000.0	mixed manicipal waste	Di	IVI	weighted	Offsite in freiand	02	Galway,Ireland		
										Ard Na Grena,65 Makenny Road,Ballinamallard,Norther		
To Other Countries	19 12 01	No	53.0	Cardboard - OCC	R12	М	Weighed	Abroad	Solutions, IRE/G443/17			
		1,0	00.0	Curaboara CCO	1112	IVI	vveigned	Autoau	Drehid Waste Management	n Ireland, Ireland		
Within the Country	20 03 03	No	52 58	street-cleaning residues	D1	М	Weighed	Offsite in Ireland	Facility,W0201-01	DrehidCo. Kildare.Ireland		
	20 00 00		02.00	Successioning residues	U.	IVI	Weighted	Offsite in freiand	Drehid Waste Management	Drenid,,Co. Kildare,ireland		
Within the Country	20 03 01	No	27.2	Mixed Municipal Waste for Landfill	D1	M	Weighed	Offeite in Ireland	Facility,W0201-01	Drobid Co Kildere Iroland		
,			27.2	mixed Maniopal Waste for Landin	D.	IVI	vveigned	Offsite in freiand	First Class	Drehid,,Co. Kildare,Ireland Ballybane Industrial		
										Estate,Ballybane		
Within the Country	20.03.07	No	2.42	bulky waste	R12	M	Weighed	Offsite in Ireland	01			
· · · · · · · · · · · · · · · · · · ·	200001	110	2.72	bulky waste	IXIZ	IVI	vveigned	Offsite in fleiand	Rathroeen Landfill,W0067-	,Galway,Galway,Ireland		
		No	0.0	ROW used in error		M	Weighed	Offsite in Ireland	02	Ballina,,County Mayo,Ireland		
		110	0.0	TOTT USES III CITO		IVI	vveigneu	Offsite in fletand	East Galway Landfill,W0178-			
Within the Country	20 03 01	No	20.54	Mixed Municipal Waste for Landfill	D1	М	Weighed	Offsite in Ireland		Galway, Ireland		
		,,,,	20.04	mixed Memorpal Preside for Earterin	01	IVI	Weighed	Offsite in freiand	02	Glen Abbey		
										Complex,Belgard		
									Textile Recycling Ltd, Permit	Road, Tallaght, Dublin		
Within the Country	20 01 11	No	0.16	textiles	R12	M	Weighed	Offsite in Ireland	Number WPR-014	24,Ireland		
				mixture of concrete, bricks, tiles and			vvoigned	Offsite in freiand	Number WF10-014	24,11618110		
				ceramics other than those mentioned in 17					East Galway Landfill, W0178-	Kilconnell County		
Within the Country	17 01 07	No	20.84	01 06	D5	M	Weighed	Offsite in Ireland		Galway, Ireland		
		No		ROW used in error	-	M	Weighed	Offsite in Ireland	02	Calway,irciana		
								Onone in inciding				
										Auchans Road , Houston		
									WRC Recycling	Johnstone Renfrewshire		
To Other Countries	19 12 04	No	38.2	Plastic Trays	R12	M	Weighed	Abroad	JRE/G068/08	,PA6 7EE ,United Kingdom		
				*	-					Kiffagh, Crosserlough, Ballyja		
									Wilton Waste Recycling	mesduff,County		
Within the Country	19 12 02	No	46.6	Mixed Scrap Metals	R12	M	Weighed	Offsite in Ireland	Ltd.WFP-CN-10-0005-01	Cavan, Ireland		
		20101	.0.0				giiou	Choice in inciditu	2.3,	Clermont Business Park		
									Leinster Environmental,WP	,Haggardstown ,Dundalk		
Within the Country	19 12 01	No	325.3	Mixed Paper	R12	M	Weighed	Offsite in Ireland	2008/06	,Co.Louth,Ireland		
						30166		C. Totto III II Oldila	East Galway Landfill, W0178-			
Within the Country	20 03 03	No	80.7	street-cleaning residues	D1	М	Weighed	Offsite in Ireland		Galway, Ireland		
							- 3	2.70.10				

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment		Method Used	Location of	Haz Waste : Name and Licence/Permit No of Next Destination Facility 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 Le, Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
Transfer Bestination	Code	Triazaruous		Description of Waste	Operation	IW/C/E	Method Used	Treatment	0000111-1-			
Within the Country	19 12 07	No	16.76 l	Jnshredded Timber	R12	М	Weighed	Offsite in Ireland	OCR Waste Management,WFP-RN-10- 0001-01 Chep Pallets,No permit or	RoxboroCo Roscommon,,Ireland		
Within the Country	15 01 03	No	28.54 v	vooden packaging	R12	М	Weighed	Offsite in Ireland	licence pallet collections only Rathroeen Landfill,W0067-	Meenane, Watergrass Hill, County, Cork, Ireland Ballina, County		
Within the Country	19 12 07	No	18.04 v	wood other than that mentioned in 19 12 06	D5	М	Weighed	Offsite in Ireland	02 OCR Waste	Mayo, Ireland		
Within the Country		No		wood other than that mentioned in 19 12 06 non-composted fraction of municipal and	R12	М	Weighed	Offsite in Ireland	Management,WFP-RN-10- 0001-01 East Galway Landfill,W0178-	Roxboro,.,Co Roscommon,.,Ireland KilconnellCounty		
Within the Country	19 05 01	No	17.4 s	similar wastes	D1	М	Weighed	Offsite in Ireland		Galway,Ireland		
Within the Country		No		piodegradable waste (GREENS only) gypsum-based construction materials other	R3	М	Volume Calculation	Offsite in Ireland	Barna Waste (Composting Facility), EPA Licence 106/2	Carrowbrowne, Headford Road, Galway,, Ireland Donegal Road, Pettigo, Co.		
Within the Country	17 08 02	No	181.14 t	han those mentioned in 17 08 01	R3	М	Weighed	Offsite In Ireland		Donegal,,,Ireland Kiffagh,Crosserlough,Ballyja		
Within the Country	19 12 04	No	20.64 F	Plastic Film	R12	M	Weighed	Offsite in Ireland		mesduff,County Cavan,Ireland		

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



Appendix C:

EMP & Schedule of Targets and Objectives 2017 / 2018



Schedule of Targets and Objectives &

Environmental Management Plan 2017 / 2018

Submitted March 2018

WASTE LICENCE

REGISTRATION NO: WL106-2

LICENSEE: BRUSCAR BHEARNA TEORANTA

(BARNA RECYCLING)

LOCATION OF ACTIVITY: CARROWBROWNE,

HEADFORD ROAD,

CO. GALWAY.

ATTENTION: Michelle McKim / Helen Boyce

EPA - Office of Environmental Enforcement

CASTLEBAR OFFICE

PREPARED BY: MR. CAMPBELL FINNIE

(Barna Recycling)

CONTRIBUTIONS FROM: MR. SEAN CURRAN

(Managing Director/Facility Manager)

MR. MICHAL RUDZINSKI (Operations Supervisor) MR DEREK BRIEN (Health & Safety Manager) MR. JOHNNY CURRAN

(Deputy Facility Manager)

INTRODUCTION

As a requirement of Waste Licence WL106-2 Barna Recycling requires to have available a Schedule of Targets and Objectives as stated in condition 2.3.2 of our Waste Licence which states:-

"The objectives shall be specific and measurable. The Schedule shall address a five-year period as a minimum. The schedule shall include a time scale for achieving the objectives and targets and shall comply with any other written guidance issued by the Agency."

This report was initially submitted on 18th December 2001 and has been updated on an annual basis since then.

The submission for 2018 has been kept consistent in format with previous submissions.

SECTION 1: Update on current list of Targets and Objectives

The next few pages of the report detail the Targets and Objectives that were set out by the company for 2017 and provides updates in detail as to exactly what actual progress was made for each action during the year and whether we achieved the targets or not. A summary of the results is included at the end of this section:-

TARGET / OBJECTIVE	Owner	Completion Target	2017 Progress Update
OPERATIONS / HEALTH & SAFETY – review fire safety at the site and implement recommendations of independent report produced at the start of 2017 by Tobin Consulting Engineers	Management Team	Q4 2017	This work is progressing very well. A fire improvement team has been put in place focusing on implementing the reports recommendations and other fire related improvements. Excellent progress made, and the team will continue in 2018 and beyond to ensure focus in this area.
OPERATIONS / HEALTH & SAFETY – carry out upgrades to operations staff canteens and include shower rooms within the new set-up	Operations Manager Health & Safety Manager	Q3 2017	This work has been completed fully in 2018. Painting and other upgrades are all done.
OPERATIONS – amend air flow options in compost pasteurisation tunnels to increase efficiency of the back-end process	Compost Manager	Q2 2017	This has been successfully implemented. The maturing time of compost batches in pasteurisation tunnels has reduced significantly during 2017 and this part of the process is working very well.
TRANSPORT – carry out a full review of all skip containers and ensure they are all brought to the new NWCPO condition requirements before being reused	Transport Manager Weighbridge Manager	Q2 2017	This work is 90% complete. All skips in rotation have been updated as required. We just have a few older skips to finish in order that the programme is fully complete. This will be done early in 2018.
TRANSPORT – carry out training on all aspects of safety and good work practice on the roads for all vehicle drivers and helpers	Transport Manager Health & Safety Manager	Q1 2017	This training programme was completed fully during 2017.
TRANSPORT – carry out training for all drivers and helpers on the rules and regulations behind driver working hours and driving time to assist with compliance in this area	Transport Manager	Q1 2017	This training programme was fully completed during 2017.
TRANSPORT / IT – carry out training on the Use of our new handheld units for all drivers and helpers to ensure a smooth transition to our paper free docket free system when moving to pay by weight	Transport Manager IT Manager	Q1 2017	This training was fully completed during 2017.

ENVIRONMENT – find a regular and sustainable market for hard plastics which have been a problem to move over the last couple of years on a consistent basis to one buyer who will accept the quality of material that we produce	Facility Manager	Q2 2017	This process is ongoing but excellent progress has been made. We are currently working with Van Werwen plastics in relation to a long term sustainable option for this material. Five trials loads have been sent and the material approved. We are due to deliver the final trial load in April 2018 before a long-term contract is offered.
ENVIRONMENT – implement the proposed agreement with Glassco to provide a central collection point for glass collections in the Galway area and assist bulk transfer to their facility in NAAS	Facility Manager Operations Manager	Q1 2017	This process is in place and a contract in place with Glassco
HEALTH & SAFETY – carry out an assessment throughout the organisation of ergonomics and implement findings recommended for each employee before the end of 2017	Health & Safety Manager	Q3 2017	This study was completed during 2017 on all employees and the report was issued early in 2018. Recommendations to be fully implemented during 2018.
OPERATIONS - Complete implementation of integrated management systems to incorporate Quality, Environment and Health / Safety and get certification to ISO 9001, ISO 14001 and ISO 18001 standards	Facility Manager Health & Safety Manager	Q4 2018	The process of implementing these new standards is still under review by the company. No major progress in 2017.
OPERATIONS - Devise plan and tonnage model to ensure the composting facility is capable of accepting and processing 20,000 tonnes of material per annum running and tonnage increases year on year through 2018	Operations Manager Facility Manager Managing Director	Q4 2017	This work has been completed during 2017 and with quicker processing time we plan to increase tonnage towards 20,000 tonnes in 2018. In addition there were no odour complaints about the composting during 2017 and that was also part of the improvements implemented as part of this action within the compost process.
OPERATIONS - Material Sorting Facility (picking station) – integrate the recently purchased equipment including optical sorting units into the facility to further enhance picking capabilities	Operations Manager Managing Director	Q2 2017	This work was not completed during 2017 and will be rolled into 2018. This action was not ignored it was scheduled for Q4 however due to the significant downturn in the recycling markets it was decided to put the project on hold.
OPERATIONS – continue strategy / policy for phasing out older plant and machinery around the site and introducing fresh newer equipment (to include mobile plant)	Management Team (All)	Q4 2017	This programme is ongoing but good progress was made in 2018 with upgrades purchased for both forklifts and loading shovels on site (x1 of each). These improvements will continue in the new reporting year.

OPERATIONS / HEALTH & SAFETY - review the situation with temporary work staff make decision if this is best practice or not and if we maintain temporary staff we must incorporate them into the company vaccination programme as soon as possible IT SYSTEMS – implement a self- weighing facility into the site weighbridges for specific transactions only	Operations Manager Health & Safety Manager IT Manager	Q1 2017 Q3 2017	This programme was completed during 2017 and a final decision made to cease use of agency staff on site. This was implemented from Q2 2017 onwards and no agency staff have been used since. This functionality is now available on site
IT SYSTEMS – review Genysys software for company reports and request update reports to be released to cover all departmental requirements	IT Manager Management Team	Q2 2017	This work has been completed and the system now includes all reports for each department within our company. This programme will continue annually as the system develops further to ensure we always have the ability to pull the data needed for reporting
TRANSPORT - Implement pay by weight capability across all fleet and implement a system that offers capability to run from the 'back of truck' through to 'invoicing'. This will only be implemented when legislation that requires pay by weight as a requirement by the Government is fully implemented	Management Team (All)	Q4 2017	This project has been successfully implemented and pay by weight is now available to both commercial and domestic customers.
ENVIRONMENTAL – continue to develop the energy and power saving programmes within the waste transfer station and all areas of the site to reduce the usage during both operational and non-operating hours	Facility Manager Operations Manager	Ongoing	This programme is always under review but no major progress was made in 2017.
ENVIRONMENTAL – continue to review the Irish recycling market to identify possible recycling options for various materials within the Country to reduce our carbon footprint	Facility Manager	Ongoing	This option is always under review. The major progress to report in 2017 was the development on the local hard plastic market and also agreeing a deal with AES in relation to the management of tyres within the country.
SALES – continue to implement a plan to introduce brown bins to all our domestic customers. Training programmes for the domestic customer should be developed as part of this project.	Sales Manager	Ongoing	We are up to schedule with all brown bins to be distributed under current regulations all areas that require a brown bin service have been given the option. This will develop further in 2018.
SALES – continue programme of school visits and presentation to target the younger generation interested in recycling	Sales Manager	Ongoing	This programme continues and school visits and dialogue continued throughout 2017. The company have a presentation specifically designed for visiting schools.

BUSINESS - Permitted site – once this site is in a proper condition prepare a plan for the EPA with a proposal / application to have this site integrated	Facility Manager Operations	Q4 2017	No progress in 2017 in relation to this project.
into the EPA licence	Manager		
	Managing Director		
TRAINING – continue to support all staff training to ensure we meet health and safety and other compliance standards as well as develop our workforce – main focus in 2016 to be on manual handling refresher courses and training for drivers and helpers on best practice on the backs of trucks with bins lifts etc	Management Team (All)	Q4 2017	All training scheduled for 2017 was successfully completed from driver and truck related training, machine operator training, fire safety etc.

SUMMARY of 2017 PERFORMANCE

The company performed very well towards achieving its list of targets and objectives for 2017 and we achieved most of our major goals that we set ourselves or in the least made progress on them.

Some examples of the major goals accomplished during 2017 are below:

- The retention and re-awarding of our ISO14001 accreditation was vitally important for the company
- Significant focus and improvements in relation to fire safety management on site
- Staff canteens and facilities fully upgraded
- Major improvements to the composting facility on site in relation to the speed on the back-end processing at Pasteurisation Stage
- The skip containers on site have almost all been upgraded and repaired
- Full training programme implemented for our drivers and helpers on all collection and road related activities as well as IT systems
- Full training programme implemented for on site staff within the facility
- Local recycling markets sourced for management of hard plastic materials
- New agreement in place with Glassco for the management of glass tonnages within the region
- Ergonomics assessment carried out within the site for all staff
- Started the progress on upgrading our mobile plant on site
- Removed the requirement for having temporary agency staff on site
- Company software upgraded to improve our reporting capabilities
- Pay by Weight capability implemented successfully

The above list demonstrates that again during the reporting year the company paid attention to the specific targets it set itself and shows that the targets being set are realistic and important to the development of the company. We have improved in many areas ranging from staff training, to the improvement within the composting facility, upgrades to plant on site, pay by weight capability made available, upgrades to staff facilities on site, removal of agency staff from the facility, reporting requirements upgraded and significantly major focus and improvements made to our fire management and safety system on site.

These are all important areas as we need to develop the company in a way that makes business and financial sense as well and continuing to ensure our EPA facility, our staff and our fleet also develop at the same time.

Overall, we are very pleased to have achieved significant progress on our objectives for 2017.

Any goals not achieved or only partly achieved in 2017 will be included again for 2018 as they are still important to our future plans.

SECTION 2: New list of Targets and Objectives for 2018

New Targets & Objectives for 2018

The targets and objectives for 2018 are listed below. As advised by the EPA previously we have tried to identify actions that can be easily measured and also tried to ensure that most of the actions are related to issues out with our Waste Licence

Any targets not achieved during 2017 have automatically been included again below. Targets / actions which are relevant on an ongoing basis but are deemed important enough to keep being included in this document are also listed. We feel it important to document them even although they will permanently be on the document to ensure focus is kept on achieving these targets.

Since 2014 and our examinership the business has gone through a period of review and is now in a position where we have defined major areas that need to be developed to ensure the business can run successfully for many years to come.

Therefore, the list of objectives is tied closely to our business goals and all are significant projects that will have a major impact on the future of the company.

The company operates based on five fundamentals which are the cornerstone of our day to day business activities. The fundamentals are:

Safety Compliance Productivity Preventative Maintenance Housekeeping

These fundamentals are key to everything we implement or manage in our business and as a result the following new targets and objectives have been set for 2018:-

New list of Targets and Objectives for 2018:

TARGET / OBJECTIVE	Owner	Completion Target	Current Status
OPERATIONS / HEALTH & SAFETY – continue to	Management	Q4 2018	OPEN
implement fire safety improvements throughout the	Team		
site during 2018			
HEALTH & SAFETY – implement the	Health &	Q4 2018	OPEN
recommendations from the organisation's ergonomics	Safety		
testing before the end of 2018	Manager		
HEALTH & SAFETY – carry out a full safety review	Health &	Q4 2018	OPEN
and implement improvements at all company civic	Safety		
amenity facilities	Manager	0.4.2010	OPEN
OPERATIONS / HEALTH & SAFETY – Make a	Facility	Q4 2018	OPEN
final decision on the implementation of integrated	Manager		
management systems to incorporate Quality,	II a a 141		
Environment and Health / Safety and get certification	Health &		
to ISO 9001, ISO 14001 and ISO 18001 standards	Safety Manager		
TRANSPORT / HEALTH & SAFETY – implement	Health &	Q2 2018	OPEN
safety camera's systems to all vehicles to enhance	Safety	Q2 2018	OLEN
monitoring of health ad safety on the road. Camera's	Manager		
can also be used for operational reasons such as	Manager		
missed bins etc	Transport		
	Manager		
OPERATIONS - Devise plan and prepare EPA	Managing	Q2 2018	OPEN
submission for an MBT or bio drying process on site	Director		
to try and produce an EWC 191210 product to			
increase options for the MSW material once	Facility		
processed. EPA approval at least should be the goal	Manager		
for 2018.			
OPERATIONS - Devise plan and tonnage model to	Operations	Q4 2018	OPEN
ensure the composting facility is capable of accepting	Manager		
and processing 20,000 tonnes of material per annum	D 1111		
running and tonnage increases year on year through	Facility		
2018 and for the next five years	Manager		
	Monoging		
	Managing Director		
OPERATIONS - Material Sorting Facility (picking	Operations	Q4 2018	OPEN
station) – integrate the purchased equipment including	Manager	Q+ 2010	OTEN
optical sorting units into the facility to further	TVIMINASOI		
enhance picking capabilities that will develop over the	Managing		
next one to five years	Director		
OPERATIONS – continue strategy / policy for	Management	Q4 2018	ONGOING
phasing out older plant and machinery around the site	Team		
and introducing fresh newer equipment (mainly	(All)		
mobile plant such as loading shovels / forklifts). The			
age of the fleet should be significantly reduced over			
the next 5 years			

ENVIRONMENTAL – continue to develop the	Facility	Ongoing	ONGOING
energy and power saving programmes within the	Manager	Oligonia	Ondomo
waste transfer station and all areas of the site to	Triuinagei		
reduce the usage during both operational and non-	Operations		
operating hours over the next 5 years	Manager		
ENVIRONMENTAL – continue to review the Irish	Facility	Ongoing	ONGOING
recycling market to identify possible recycling	Manager	- 8- 8	
options for various materials within the Country to			
reduce our carbon footprint over the next 5 years			
SALES – continue to implement a plan to introduce	Sales	Ongoing	ONGOING
brown bins to all our domestic customers. Training	Manager		
programmes for the domestic customer should be			
developed as part of this project.	Facility		
	Manager		
ENVIRONMENT / SALES – continue programme of	Sales Manage	Ongoing	ONGOING
school visits and presentations to target the younger			
generation interested in recycling	Facility		
	Manager		
BUSINESS - Permitted site – once this site is in a	Facility	Q4 2018	OPEN
proper condition prepare a plan for the EPA with a	Manager		
proposal / application to have this site integrated into			
the EPA licence	Operations		
	Manager		
	Managing		
TD + D D I G	Director	0.4.2010	OPEN
TRAINING – continue to support all staff training to	Management	Q4 2018	OPEN
ensure we meet health and safety and other	Team (All)		
compliance standards as well as develop our			
workforce ENVIDONMENT investigate the possibility of	Compost	02 2019	OPEN
ENVIRONMENT – investigate the possibility of working with local community groups especially in	Compost	Q2 2018	OPEN
relation to gardens where compost might be able to be	Manager		
used this will be good for environment and	Facility		
connecting with local communities on the work we	Manager		
are doing	Widnagei		
ENVIRONMENT – implement a review and	Facility	Q3 2018	OPEN
improvement programme to re-educate customers of	Manager	Q3 2010	OI LIV
contents of the recycling bin to reduce contaminations	TVIUIIU501		
levels this year and over the next few years	Operations		
TO TOTAL WILL STORY WILL MAIN TO IT STORY	Supervisor		
MARKETING – work with Galway City Council to	Managing	Q1 2018	OPEN
be part of the European Green Leaf programme and	Director	Q = 2 3 3	
specifically the visit organized for Q1 2018 to see if			
we can be involved to promote our business and the	Facility		
processes we have on site	Manager		
MARKETING – work with Galway City and County	Managing	Q3 2018	OPEN
Council in relation to a possible site visit by local	Director	_	
councilors to promote our recycling initiatives and			
processes	Facility		
	Manager		

HOUSEKEEPING – implement dust maintenance	Health &	Q2 2018	OPEN
programme within site buildings to improve	Safety		
housekeeping and fire safety standards this should be	Manager		
started and developed over the next 5 years across all			
buildings	Facility		
	Manager		
HOUSEKEEPING – improve site operations by	Health &	Q2 2018	OPEN
finding more permanent and safer methods of	Safety		
dividing storage areas on site by the use of only non-	Manager		
combustible materials			
	Facility		
	Manager		

Environmental Management Plan

Condition 2.3.2.2 of our Waste Licence (WL106-2) requires us to submit an Environmental Management Plan. The aim of this EMP is to provide a timescale for achieving the schedule of targets and objectives and the name of the people responsible for implementing these actions. As per last year's submission we are submitting this document as a joint document to cover the requirements for both the EMP and the Schedule of Targets and Objectives.

The table above outlines the company's goals and who is responsible for implementing them during 2018 and these goals cover operational, environmental, health and safety, IT and transport issues and any other related activities which we think need some improvement.

We believe the targets set out above are the key elements to the company progressing again in 2018 and beyond and completion of the targets set above will see us improve our facility and our business. Targets have been kept measurable and where possible are unrelated to conditions of our waste licence but clearly show the company's desire for continual improvement in all aspects of the business.

The targets are also written with a view to future years with some of the actions rolled year on year as part of a five-year plan as required by our licence.

In summary of the table above the targets and goals set for 2018, if achieved will see us achieve the following:

- Improve fire safety standards on site
- Enhance housekeeping at the facility by the introduction of maintenance programmes
- Improve ergonomic related issues for all our staff
- Enhance our collection operations by installation of cameras to all vehicles
- Improve our ability to monitor customer collections by installation of camera to all vehicles
- Improve community relations by working with local schools and community groups
- Improve our Management Systems by working towards ISO 9001 and 18001 approval
- Improve training levels of all our staff across all functions
- Improve the equipment on site by upgrading to a more modern set
- Enhance companies profile by working with Local Authority on the European Green Leaf Programme or through site visits
- Increase recycling rates by collecting and accepting more source segregated compost material

Barna Recycling are happy with the contents of this document and believe the targets set out above for the new reporting year are relevant to the overall goals of the company.

New targets can / will be added to this document as the year progresses or at the request of the EPA.

Management Support

Barna Recycling submit this document which as required by our EPA licence outlines progress made against all the targets set out for 2017 and redefines new targets and objectives for 2018. This document has been reviewed by the Management Team and all members of the team have given input into the areas being specifically targeted for 2018.

We believe the targets / objectives cover all aspects of our business and will ensure the company develops in all aspects during 2018. The goal of continuous improvement / development of the site and our performance are the key factors in setting these targets.

Comments from the Agency on the content of the report are welcome and new targets can be added or changes made at their request if anything within the report is insufficient or inadequate.

Progress Reports

Any queries regarding progress against the targets and objectives set out above for 2018 can be requested from our Facility Manager at all times throughout the reporting period.

Copies of this report are available on request from the Barna Recycling.

Next Submission

The next submission of this report is due to be submitted before 31st March 2019.



Appendix D:

Map of site monitoring locations





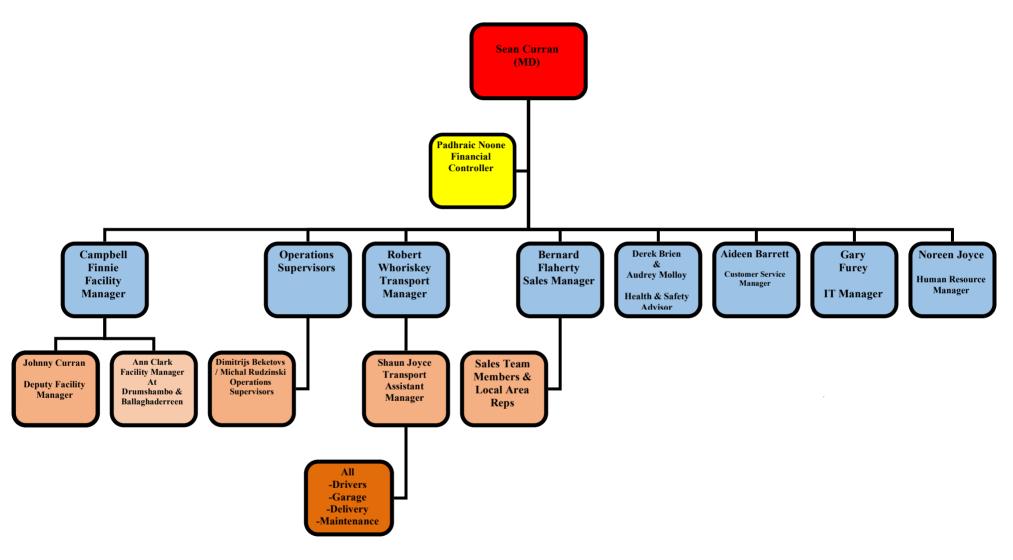


Appendix E:

Current Company Management Structure (March 2018)

BARNA WASTE

Company Management Structure



BW-OPS-001 REV 24 12/02/2018