



Annual Environmental Report

Waste Licence Number W0039-02

01st January 2017 – 31st December 2017

Ballymount Cross

Tallaght

Dublin 24

<u>Date</u>	<u>Status</u>	<u>Prepared By</u>	<u>Reviewed By</u>
27/03/2018	Draft	Laura Lazar	David Naughton.
30/03/2018	Final	Laura Lazar	David Naughton.

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1. Introduction

Panda were granted the EPA Waste Licence W0039-02 on the 10th July 2012 following the transfer of the licence from Greenstar Environmental Services Ltd.

Panda are licenced to accept 150,000 tonnes per annum. Appendix A illustrates the current site layout.

This AER relates to the calendar year 2017. The report provides details of the activities carried out at the facility from the 01st of January 2017 to the 31st December 2017.

1.1 Company Details

Licence No:	W0039-02
Name:	Nurendale
Address:	Ballymount Cross, Tallaght, Dublin 24.
Telephone Number:	1890 626262
Fax Number:	01 4245011
Website:	www.panda.ie

1.2 Management Structure

Eamon Waters is the Managing Director of Panda. Brian McCabe and Robert Waters are company Directors. David Naughton is the Environmental Manager. Laura Lazar is the facility manager and EHS officer on site. Damien Pollard is the Facility Manager Deputy. There are 30 employees either working directly or indirectly at the facility. Appendix B illustrates the organisational structure of the facility.

1.3 Financial Provision

Costing's for both CRAMP and ELRA has been agreed with the Agency and the surety for financial provision has been implemented.

1.4 Environmental Policy

In carrying out our function, Panda acknowledge that our activities impact upon the environment both through routine internal operations and the actions of our staff.

It is Panda's policy to protect the environment during all activities, both on and off-site.

This is achieved by:

- Strategic preparation and implementation of operating procedures (including an emergency response procedure).
- Utilizing BAT (Best Available Technology).
- Actively promoting environmental awareness amongst staff and clients through appropriate training and communication programs.
- Reduce energy use through effective education and awareness and the installation of energy efficient technology where appropriate.
- Implementing a policy of continuous improvement, by means of targeted objectives. All objectives and targets are monitored and up-dated accordingly.

Panda are committed to complying with all relevant environmental regulations and aim to supply a safe competitive and sustainable service with specific regards to the surrounding environment.

1.5 Activities

Under the waste licence W0039-02, Panda conducts the following activities:

1.5.1 Licensed Waste Disposal Activities, in accordance with the Third Schedule of the Waste Management Acts, 1996 to 2003

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 submission 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 is produced.

1.5.2 Licensed Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Acts, 1996 to 2003

Class 2

- Recycling or reclamation of organic substances, which are not used as solvents (including composting and other biological transformation processes).

Class 3

- Recycling or reclamation of metals and metal compounds.

Class 4

- Recycling or reclamation of other inorganic materials.

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.

Panda provide a waste collection service for the domestic, commercial and industrial sectors throughout Ireland. In 2016 Panda were awarded “The Waste Collection operator of the year (Large)” in the Repak Pakman Awards.

The facility is licenced to operate 24 hours a day, however, the normal facility operating hours are 6am-5pm (Monday-Friday) & 6am-1pm (Saturdays). The facility is licensed to accept non-hazardous wastes only.

1.6 Waste Activities carried out at the Facility

Waste accepted and dispatched at the facility is weighed using AMCS’s weighbridge software “WIMS” (Waste Information Management System).

Panda currently operates a single building for waste acceptance. The facility is primarily used as a transfer facility. The facility accepts predominantly skip waste from construction and demolition sites, household renovations/clearances and Domestic, Commercial & Industrial mixed municipal waste and organic waste. No hazardous waste, putrescible waste or liquid wastes are accepted at the facility.

Ferrous, Non Ferrous, Wood and bulky waste are segregated from the incoming waste in the facility using a loading shovel, and stored in the building for onward movement. The remaining mixed waste is then bulked up and sent onward for processing or to appropriate for recovery or disposal.

1.7 Water Usage

Water for dust/odour suppression, office and amenities use is taken from municipal supply and is metered by the council.

Water usage on site consists of:

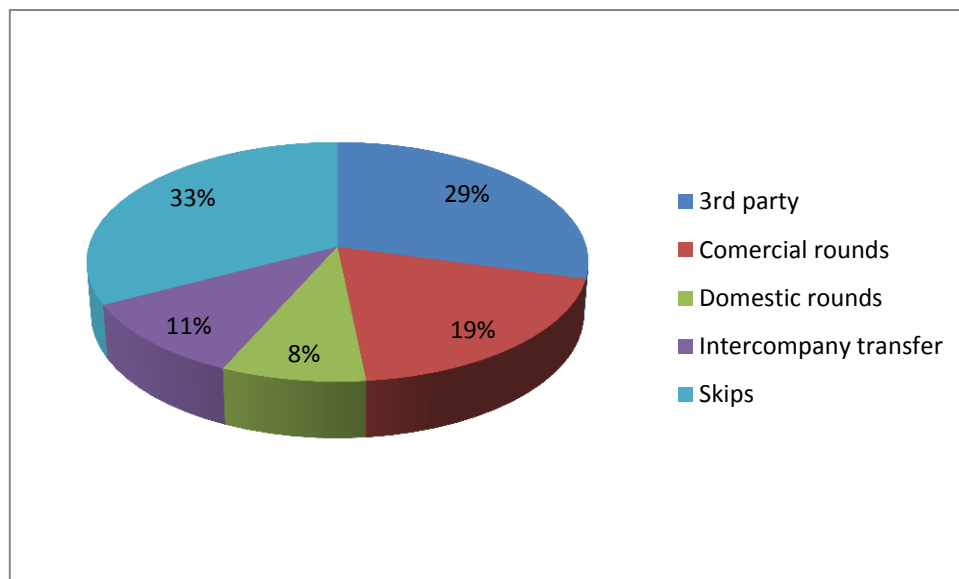
- In-house road sweeper (daily visits);
- Dust suppression sprayers in the shed and on the doorways;
- Hoses on site for dust suppression;
- Fire Fighting equipment.

2. Summary Information

2.1 Waste Received

The waste received at the facility from the 1st January 2017 to the 31st December 2017 was 148,704.31 tonnes. From the pie chart (Fig 1) it is evident that skip deliveries are the largest source of Panda's waste accepted into Ballymount with domestic waste and 3rd party deliveries the next largest.

Fig. 1: Waste Collected by Panda by Customer profile in 2017



2.2 Waste Transferred Off-Site for Disposal or Recovery

See Appendix C for the breakdown of the different destinations used for the waste accepted at the facility and of waste removed off site by EWC Code.

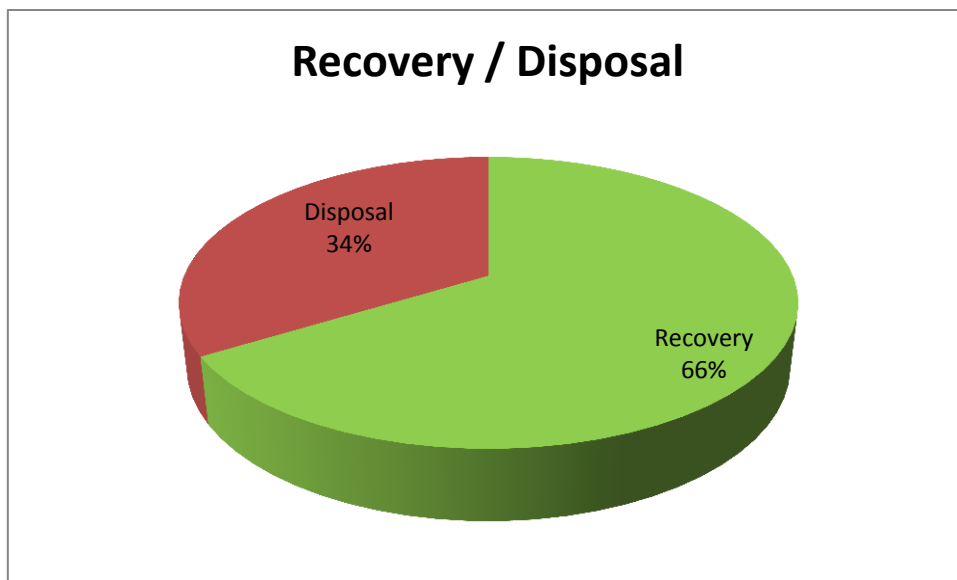
2.3 Waste recovery report

To contribute to the Landfill Directive, Panda operates various systems to maximise recovery and recycling with most processing being carried out in the headquarters' facility.

Panda applied to the Agency for a review the current Waste Licence (W0140-04) for the Beuparc facility in September 2009. This review was submitted to the Agency, so that Panda can produce a SRF/RDF product from the residual waste previously sent to Landfill. Panda also reviewed the licence for the purpose of constructing an Anaerobic Digestion/Composting plant. Panda have rolled out a source segregated collection service for biodegradable waste for both household and commercial customers.

Panda process the mixed C&D waste in the Beuparc facility in building 2, this includes a shredder, trommel, magnet, wind shifter and a picking line so as to divert as much C&D waste away from landfill as possible in order to comply with “A Resource Opportunity, 2012” for landfill diversion. To date the processing of C&D Waste has been extremely successful with the majority of the residual being processed into Solid Recovered Fuel.

Fig. 2: Outgoing destination recovery rate



2.4 Summary report on emissions and interpretation of environmental monitoring

Under Schedule C of the licence W0039-02, Panda are required to monitor surface water, foul water emissions, BMW content of municipal waste dispatched to landfill (Frequency-as specified by the Agency), noise and ambient air monitoring (Dust). The following sub-headings detail the results from independent laboratories of the different parameters and the emission limit values ELV's set by the EPA and any complaints and incident that may have occurred during the year.

2.4.1 Storm Water Emissions

Storm water passes through a silt trap and oil interceptor prior to being discharged to the municipal storm water network. The surface water monitoring point is located at the south-western corner of the facility at the co-ordinates X/E 309589 Y/N 230305 (SW1).

Table 1. Surface water monitoring 2017

Parameter	Units	31/01/17	N/A	03/03/17	22/03/17	19/04/17	N/A	N/A
pH	pH units	7.4	Ns	7.5	**	7.2	Ns	Ns
Electrical Conductivity	us/cm	654	Ns	552	250	400	Ns	Ns
Suspended Solids	mg/l	61	Ns	56	63	6	Ns	Ns
Fats, Oils, Grease	mg/l	<1	Ns	<1	<1	<1	Ns	Ns
COD	mg/l	71	Ns	61	91	47	Ns	Ns
BOD	mg/l	18	Ns	18	28	12	Ns	Ns
Temperature	°C	*	Ns	12.8	11.8	12.1	Ns	Ns

Parameter	Units	28/07/17	21/08/17	21/09/17	25/10/17	29/11/17	14/12/17
pH	pH units	7.4	7.7	7.4	7.7	7.3	7.6
Electrical Conductivity	us/cm	266	310	381	504	593	95.2
Suspended Solids	mg/l	6	4	6	7	3	4
Fats, Oils, Grease	mg/l	<1	<1	<1	3	<1	<1
COD	mg/l	21	10	5	37	15	29
BOD	mg/l	7	<2	<2	12	<2	<2
Temperature	°C	14.3	12.1	11.4	10.4	12.1	4.4

Ns = No sample taken due to lack of flow (stagnant water)

**Parameter mistakenly not measured on site*

*** Parameter mistakenly not requested on the chain of custody*

The sample results for surface water taken in January 2017 exceed the suspended solids limit by 31 mg/l. This was reported to required authorities. February surface water sampling was not possible due to stagnant water or very low flow.

The sample results for surface water taken on the 3rd of March 2017 exceed the suspended solids limit by 26 mg/l. This was reported to required authorities. Due to this incident, a second sample was taken for March. Suspended solids and BOD results were above the ELV with 33 mg/l and 8 mg/l respectively. This was reported to required authorities.

The sample results for surface water taken in April 2017 were within licence ELV's.

May and June surface water sampling was not possible due to stagnant water or very low flow. All following monthly samples were within licence ELV's.

2.4.2 Foul Water

Foul water passes through a silt trap and oil interceptor prior to being discharged to the sewer network. The foul water monitoring point is located at the south-western corner of the facility at the co-ordinates X/E 309604 Y/N 230321 (FS1). Volume discharged for 2017 was calculated at 2,610.6 m³.

Table 2. Foul water monitoring 2017

Parameter	Units	23/02/17	22/03/17	09/06/17	28/07/17	13/10/17	20/11/17
pH	pH units	8	6.1	6.6	7.1	6.9	7.4
BOD	mg/l	130	1175	460	47	16	18
COD	mg/l	322	1730	995	91	397	119
Total Suspended Solid	mg/l	186	479	232	44	263	38
Fats, Oils, Grease	mg/l	6	28	18	<1	12	<1
Detergent	mg/l	5.782	1.24	1.64	0.36	0.754	0.102
Temperature	°C	*	10.2	12.5	14.1	14	15

**Parameter mistakenly not measured on site*

All bi-monthly foul water samples taken in 2017 were within licence ELV's.

2.4.3 Dust Emissions

As per schedule E.2 for dust deposition limits, there are currently four sampling locations (DS1, DS2, DS3 and DS4). Monitoring is required three times a year. A dust suppression

unit was installed in the shed and on doorways to ensure dust emissions from the tipping, sorting and reloading are kept to a minimum. Figs 3-6 illustrate dust recordings for 2017.

Fig. 3: Dust emission results for DS1

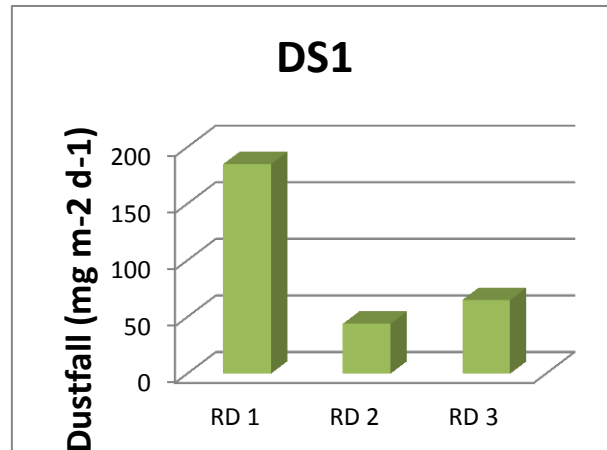


Fig. 4: Dust emission results for DS2

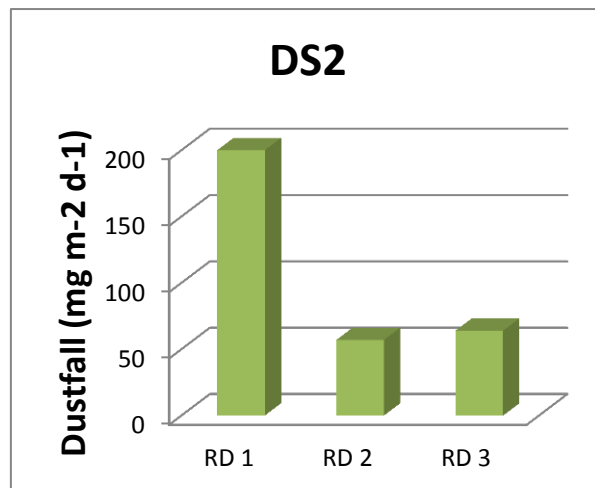


Fig. 5: Dust emission results for DS3

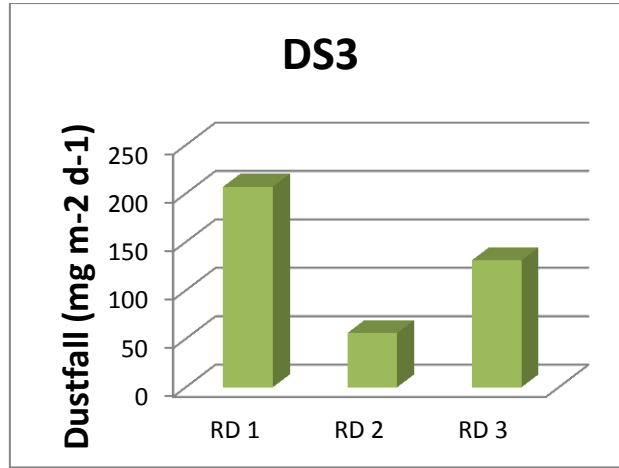
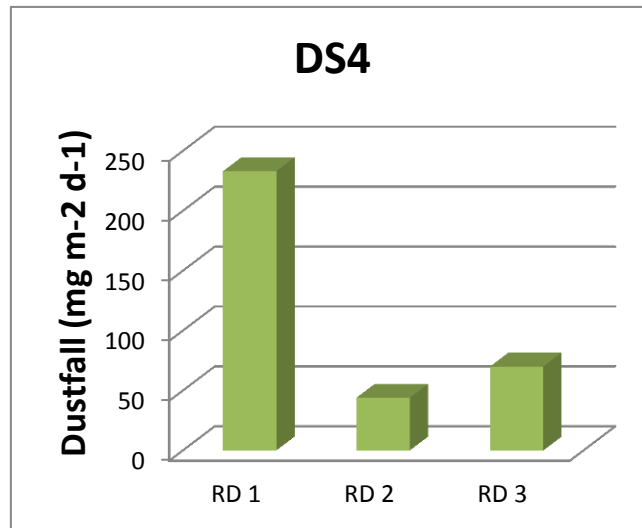


Fig 6: Dust emissions results for DS4



As per Schedule F.2, the dust deposition limit for the site is 350 mg m⁻² d⁻¹. DS1 to DS4 are within licenced ELV's.

2.4.4 Noise Emissions

Noise emissions are monitored according to Schedule E.3 and the emission limit values (ELV) set out in Schedule F.4 of the licence. An independent competent consultant has been commissioned to conduct the noise sampling for the facility. Table 3 and 4 details results of noise monitoring conducted in December 2017.

Table 3

Day-time Recorded Noise Levels dB(A) – Intervals 30 minutes

Location	Time	Leq	L10	L90	Comments
B1	14.30 - 15.30	63.5	65.5	61.2	Forklift moving within 2.5 m of monitor during survey
B2	14.30 - 22.00	58.1	59.6	55.0	Trucks entering and exiting building at 2 m from location of monitor
B3	14.00 - 20.30	60.9	63.2	57.4	Road traffic (Ballymount Rd Upper) Site activity in-audible at this location and less than 55dBA
NSL1	15.00 - 16.30	62.1	64.4	58.3	Road traffic on Ballymount Road Upper Waste facility inaudible at less than Lmin of 53dBA. Site emissions less than 55dBA

Table 4

Night-time Recorded Noise Levels dB(A) – Intervals 30 minutes

Location	Time	Leq	L10	L90	Comments
B1	22.00 - 23.00	57.3	59.8	54.3	Road traffic-No activity on Waste site
B2	22.00 - 22.30	55.9	57.4	53.9	Road traffic-No activity on Waste site
B3	22.00 - 23.00	55.9	62.3	56.0	Road traffic-No activity on Waste site
NSL1	22.00 - 22.30	60.3	62.9	56.8	Road traffic-No activity on Waste site

The main operation on site is housed (segregation and loading of material). Other activity on-site was activity associated with the forklift and trucks entering and leaving the site. The dominant noise outside the site is from the busy road network (adjacent Ballymount Road and M50). There was no clearly audible tonal component or impulsive emission from the facility outside the site during the day or night at the NSL.

2.4.5 Bund, pipe and underground storage tanks integrity

The integrity and water tightness of all underground pipes, all tanks, bunding structures and containers and their resistance to penetration by water and other materials is required to be carried out every three years and thereafter and reported to the Agency.

The bund integrity test was carried out January 2016 and April 2017. The results show that the bund has maintained its integrity.

The pipeline integrity test has been carried out in 2014, following alterations to the drainage network. This is to be retested.

2.4.6 Summary of Resource and Energy Consumption

Table 5: Summary of Resource and Energy Consumption from 1st January 2017 to 31st December 2017.

Resource	Consumption
Gas Oil	358,730.35 Litres
Electricity	137.1 MWhr

2.4.7 Water

Water is obtained from the municipal water supply.

2.5 Site Infrastructure

The following are details on infrastructure in the facility.

2.5.1 In-place

The current site infrastructure is outlined below in List 1. List 2 details the waste processing equipment used on site.

List 1: Current site infrastructure

1. Offices
2. Weighbridge.

3. One x Waste processing building
4. One x Dust suppression system
5. Canteen & toilets.
6. Oil Interceptor
7. Fuel Depot

List 2: Equipment

1 x loading shovel	1 x Forklift
1 x excavator	1 x multi sweep

There is sufficient back up within the group to replace loading/sorting equipment in the event of a break down.

2.5.2 Planned Infra-structure

Proposed infrastructure is outlined in List 3.

List 3: Proposed infrastructure:

1. No new infrastructure planned.

2.6 Progress report on proposals developed to minimise water demand and trade effluent discharge

Water usage on site is already at a minimum. No proposals required.

2.7 PRTR Emission

Panda's PRTR emission return is provided in Appendix C.

3. Environmental Objectives and Targets for 2017 and 2018

No	Objective & Target	Method of Achievement	Responsibility	2017 Programme	Complete in 2017	2018 Programme
1	Assess the Effectiveness of Nuisance Control Procedures	Continually review and assess all nuisance control procedures to ensure minimal impact on surrounding area	EHS Manager	Sept '17	Completed in '17	Sept '18
		Ensure yards are cleaned at the end of each working day	Facility Manager	Continuous	Continuous	Continuous
2	Prevent Water Pollution from Run-Off	Ensure all gullies and drains are maintained and regularly cleaned	Facility Manager	Continuous	Continuous	Continuous
3	Maintain and Develop the Environmental Management System	Maintain EMS Documentation on site	EHS Manager	Continuous	Continuous	Continuous
		Update procedures to reflect operational and control changes				
4	Assess Waste Acceptance Procedures for Casual delivers	Have all casuals sign waste collection permit exemption indemnity letters	Weighbridge Management	Commence Q1 '17	Continuous	Continuous

No	Objective & Target	Method of Achievement	Responsibility	2017 Programme	Complete in 2017	2018 Programme
5	Environmental Monitoring	Implement the Environmental Monitoring Programme specified in the Waste Licence	EHS Officer	Continuous	Continuous	Continuous
		Investigate any accidents of emission limit values	EHS Officer	Continuous	Continuous	Continuous
6	Ensure and implement a training programme	Identify staff training requirements and provide relevant training	EHS Officer	Q2 '17	Completed in '17	Continuous
7	To control any emergencies that may arise at the facility	Review and implement the Emergency Response Procedure	EHS Officer	Q2 '17	Completed in '17	Q1 '18
8	Prepare a Standard Operating Procedures Manual	Review the SOP manual relevant to site operations	EHS Officer	Q2 '17	Completed in '17	Q1 '18

No	Objective & Target	Method of Achievement	Responsibility	2017 Programme	Complete in 2017	2018 Programme
9	Ensure lighting in waste handling buildings provide sufficient lighting so as to assess incoming waste	Clean all light bulbs and covers in waste handling buildings	Facility Manager	Q2 '17	Completed in '17	Q3 '18
10	Office Recycling	Going paperless	EHS Officer	Continuous	Continuous	Q3
11	Pipe Integrity Test	Carry out a Pipe Integrity Test	EHS Officer		Q2'18	
13	ISO accreditation	Retain ISO and update to new ISO Standard	Legal & Compliance Counsel	Q3 '17	Completed in '17	Q3'18
14	Yard lighting	Upgrade to LED yard lighting internally and Externally (building upgrade being considered)	Maintenance Dept	Q4 '17	Continuous	Continuous

3.1 Summary of Reported Incidents and Complaints

3.1.1 Reported Incidents Summary

There were three reportable incidents in 2017. All incidents were reported to EPA through Eden.

Incidents were managed efficiently and investigated in a timely manner.

3.1.2 Complaints

There was 1 complaint made to the Agency in August, during this reporting year of 2017. This complaint was fully investigated in a timely manner.

3.2 Review of Nuisance Controls

3.2.1 Odour

There is minimal risk of odour nuisance due to the nature of the waste accepted at the facility. However, fast turnaround times of waste help to prevent any odour nuisances that may occur. Also, a power washer is being used to clean required areas in the shed and yard. Each day, the facility manager conducts an inspection of the site. Odour nuisances are included on this inspection.

3.2.2 Noise

The monitoring results showed that noise is not a nuisance, as only minimal plant operates on site.

3.2.3 Dust

A dust suppression system is installed in the shed and on the doorways of the building. There is a sweeper on site fulltime with spray bars so as to spray water for dust suppression. Fire hoses are also available to spray water on concreted yards as required.

3.2.4 Vermin

A file on vermin control is maintained in the office. A sub-contractor is used to control any vermin on site.

3.2.5 Flies

Good housekeeping practices are used to prevent fly infestations. The yard is kept clean using a road sweeper and all waste for disposal is removed from the facility within 48 hours, or 72 hours in the case of a bank holiday weekends.

3.2.6 Birds

In order to avoid having birds as a nuisance, litter control is practised at all times, this includes regular litter patrols.

3.2.7 Litter

A member of staff carries out litter inspections of the facility twice daily and gathers any litter deposited.

4. Development of Procedures on Site

The Emergency Response Procedure (ERP) was reviewed and amended to reflect the changes requested by the Agency.

No new procedures were developed in 2017.

5. Pollution Emission Register

After consulting the PERL list, Panda are not using any substance that is listed at present.

6. Report on Programme for Public Information

Panda have re-developed their website in 2016; one of the features is an Environmental page where the following can be downloaded,

- Facility licences (W0003-03, **W0039-02**, W0140-04, W0238-01, W0261-02, W0263-01)

- Multi-regional Waste collection permit (NWCPO-13-11193-05),
- TFS Broker licences,
- Customer Charter,
- Environmental Policy,

Domestic wheelie bin customers can also download their relevant collection calendar and pay bills.

Panda have a news section on the website, with regular updates on collections, offers, etc.

Over the Christmas period 2017 Panda put advertisements in all the local newspapers to inform customers of the schedule of bin collections over the Christmas Period. Panda also issued all domestic customers with a Christmas calendar showing collection days over that period. If there were any change to a domestic route, this would also be advertised in the local media.

In March 2009, Panda commenced SMS messaging to domestic customers regarding their collections. Panda are also encouraging customers to receive email invoicing, thereby reducing dependence on paper invoices and envelopes.

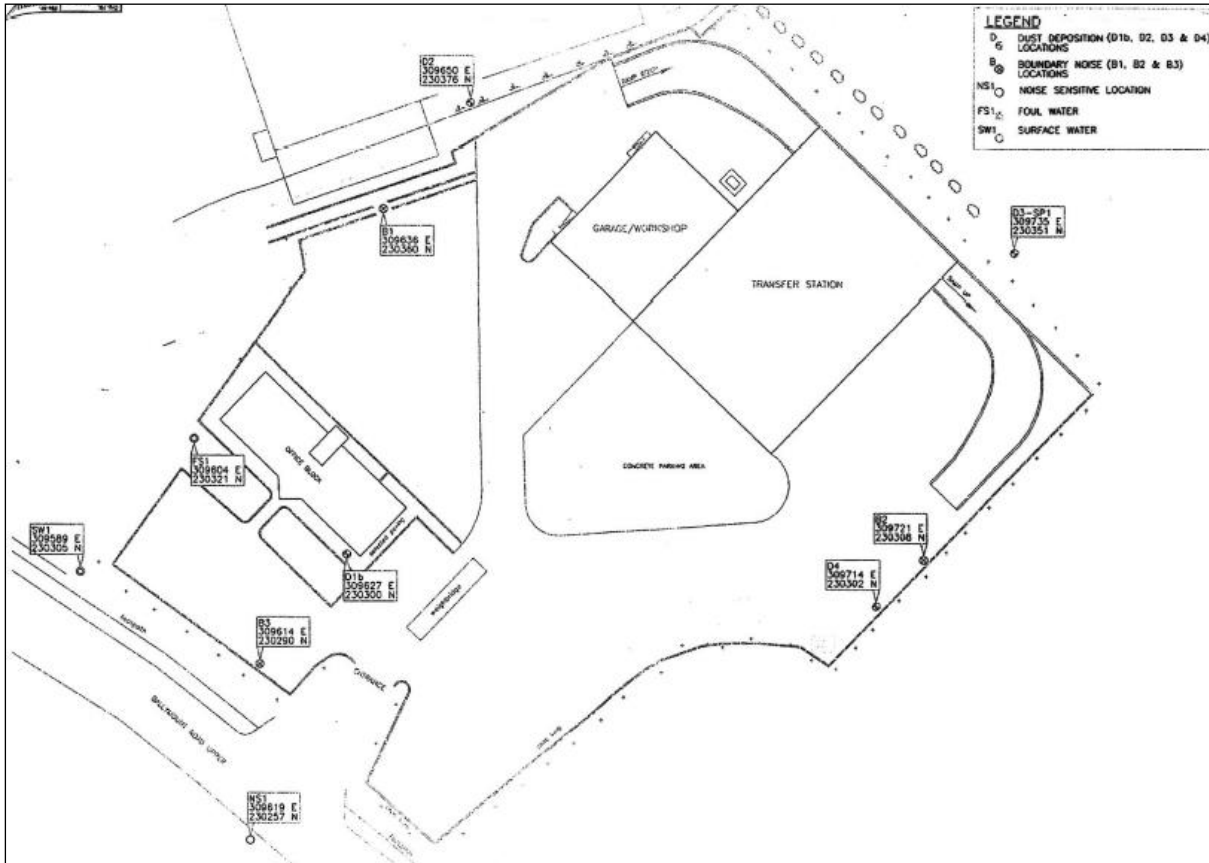
Recycling certificates are issued to customers, on request, so that they can determine their recycling on a weekly/monthly or annual basis.

Advertisements are taken out regularly in the local newspapers informing customers of the services that Panda offer. Tours of the facilities are given to schools and to members of the public upon request. During the reporting period there were no requests from members of the public to inspect any Environmental Records.

The information in the Annual Environmental Report is true and accurate representation of the activities conducted by Panda in 2017.

Appendix A

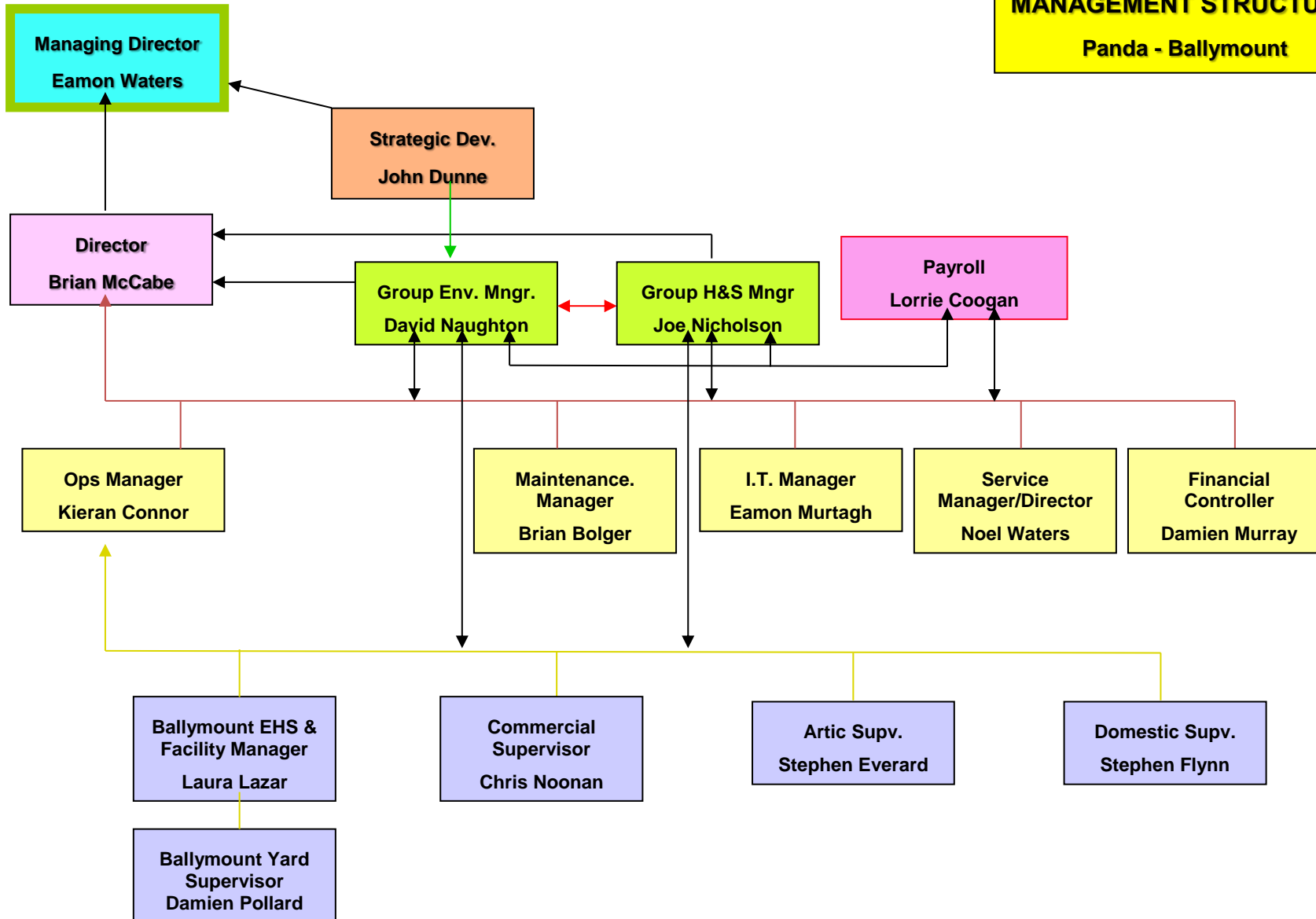
Site Layout



7. Appendix B

Organisational Structure

MANAGEMENT STRUCTURE
Panda - Ballymount



8. Appendix C

PRTR Emissions

[Guidance to completing the PRTR workbook](#)

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR	2017
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1. FACILITY IDENTIFICATION

Parent Company Name	Nurendale
Facility Name	Nurendale (Ballymount Cross)
PRTR Identification Number	W0039
Licence Number	W0039-02

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Ballymount Cross
Address 2	Tallaght
Address 3	Dublin 24
Address 4	
	Dublin
Country	Ireland
Coordinates of Location	-6.35528 53.3121
River Basin District	IEEA
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Laura Lazar
AER Returns Contact Email Address	laura.lazar@greenstar.ie
AER Returns Contact Position	EHS Manager
AER Returns Contact Telephone Number	086 010 4426
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	30
User Feedback/Comments	
Web Address	

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)

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

4. WASTE IMPORTED/ACCEPTED ON SITE

[Guidance on waste imported/accepted onto site](#)

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities)?	
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This question is only applicable if you are an IPPC or Quarry site

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

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

SECTION B : REMAINING PRTR POLLUTANTS

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

ADD NEW ROW | DELETE ROW * *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)

RELEASERS TO AIR		Please enter all quantities in this section in KGs									
POLLUTANT	METHOD	ADD EMISSION POINT				QUANTITY					
		Method Used				T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	DS1				DS2	DS3	DS4
210	Dust	C	ALT		0.03577	0.039055	0.047937	0.042218	0.16498	0.0	0.0

ADD NEW ROW | DELETE ROW * *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: Nurendale (Ballymount Cross)

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

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4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

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

ADD NEW ROW | DELETE ROW * * 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		Method Used		ADD EMISSION POINT	QUANTITY		
No. Annex II	Name	M/C/E	Method Code Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental)	F (Fugitive)
				0.0	0.0	0.0	0.0

ADD NEW ROW | DELETE ROW * * 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		Method Used		ADD EMISSION POINT	QUANTITY		
Pollutant No.	Name	M/C/E	Method Code Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental)	F (Fugitive)
				0.0	0.0	0.0	0.0

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

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4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

IPRTR#: W00391 Facility Name: Nurendale (Ballymount Craze) IFile name: W0039_2017 PRTR.xlsx

27/03/2018 17:00

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			ADD EMISSION POINT	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
					0.0	0.0	0.0	0.0

ADD NEW ROW | DELETE ROW * * 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)

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			ADD EMISSION POINT	QUANTITY		
Pollutant No.	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
303	BOD	C	PER	Calculated on annual flow rate. Analysis is ISO accredited	1.45	1.45	0.0	0.0
306	COD	C	PER	Calculated on annual flow rate. Analysis is ISO accredited	2.87	2.87	0.0	0.0
314	Fats, Oils and Greases	C	PER	Calculated on annual flow rate. Analysis is ISO accredited	0.05	0.05	0.0	0.0
308	Detergents (as MBAS)	C	PER	Calculated on annual flow rate. Analysis is ISO accredited	0.0	0.0	0.0	0.0
240	Suspended Solids	C	PER	Calculated on annual flow rate. Analysis is ISO accredited	0.98	0.98	0.0	0.0

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

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SECTION A : PRTR POLLUTANTS

RELEASES TO LAND			Please enter all quantities in this section in KGs			
POLLUTANT		METHOD	ADD EMISSION POINT	QUANTITY		
No. Annex II	Name	M/C/E	Method Used	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
				0.0	0.0	0.0

ADD NEW ROW | DELETE ROW * * 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 quantities in this section in KGs			
POLLUTANT		METHOD	ADD EMISSION POINT	QUANTITY		
Pollutant No.	Name	M/C/E	Method Used	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
				0.0	0.0	0.0
				0.0	0.0	0.0
				0.0	0.0	0.0

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

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Please enter all quantities on this sheet in Tonnes

1

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste: Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste: Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	15 01 02	No	45.62	plastic packaging	R12	M	Weighed	Offsite in Ireland	Leinster Environmentals, WFP-LH-11-0002-01	Clermont Business Park, Haynestown TD, Haggardstown, Dundalk Co. Louth, Ireland		
Within the Country	15 01 07	No	814.9	glass packaging	R12	M	Weighed	Offsite in Ireland	Johmick Ltd, WFP-FG-13-0001-01	Main St, Garristown, Co. Dublin, Ireland		
Within the Country	17 02 01	No	24.96	wood	R12	M	Weighed	Offsite in Ireland	Greenstar Bray, W0053-03	Fassaroe, Bray, Co. Wicklow, Ireland		
To Other Countries	17 02 01	No	591.84	wood	R12	M	Weighed	Abroad	McKinstry's, LN/16/16	Down, United Kingdom		
Within the Country	17 05 04	No	10288.91	soil and stones other than those mentioned in 17 05 03	R10	M	Weighed	Offsite in Ireland	Behan Land Restoration Ltd, W0247-01	Blackhall, Punchestown, Naas, Co. Kildare, Ireland		
Within the Country	17 05 04	No	14.8	soil and stones other than those mentioned in 17 05 03	R12	M	Weighed	Offsite in Ireland	Greenstar Bray, W0053-03	Fassaroe, Bray, Co. Wicklow, Ireland		
Within the Country	17 09 04	No	583.62	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R12	M	Weighed	Offsite in Ireland	Greenstar Bray, W0053-03	CLOUGHWATER PLASTICS IRELAND L, WFP-FG-08-0002-04	Fassaroe, Bray, Co. Wicklow, Ireland	
Within the Country	19 12 04	No	14.1	plastic and rubber	R4	M	Weighed	Offsite in Ireland	Greenstar Bray, W0053-03	Rosemount Business Park, Ballycoolin, Dublin 11, Ireland		
Within the Country	19 12 07	No	5832.86	wood other than that mentioned in 19 12 06	R12	M	Weighed	Offsite in Ireland	Greenstar Bray, W0053-03	Fassaroe, Bray, Co. Wicklow, Ireland		
Within the Country	19 12 12	No	719.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R12	M	Weighed	Offsite in Ireland	Nurendale, W0140-03	Beauparc Business Park, Navan, Co. Meath, Ireland		
Within the Country	19 12 12	No	22.4	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R12	M	Weighed	Offsite in Ireland	Greenstar Bray, W0053-03	Fassaroe, Bray, Co. Wicklow, Ireland		
Within the Country	20 01 08	No	12926.71	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	Acorn Recycling, W0249-01	Littleton, Co. Tipperary, Ireland		
Within the Country	20 01 08	No	2515.08	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	Waddock Composting, WFP-CW-13-001-01	Killamaster, Co. Carlow, Ireland		
Within the Country	20 01 08	No	3712.1	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	O'Toole Composting, WFP-CW-10-0003-01	Ballinrane, Fenagh, Co. Carlow, Ireland		

Within the Country	20 01 35	Yes	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and and 20 01 23 containing hazardous components	37.64	R12	M	Weighed	Offsite in Ireland	KMK Metals,W0113-03 Clonmel Waste Disposal,WFP-TS-11-0001-01	Cappincur Industrial Estate, Daingean Road, Tullamore, Co. Offaly, Ireland	KMK metals,W0113-03,Cappincur Industrial Estate, Daingean Road, Tullamore, Co. Offaly, Ireland	Cappincur Industrial Estate, Daingean Road, Tullamore, Co. Offaly, Ireland
Within the Country	20 01 38	No	145.78 wood other than that mentioned in 20 01 37	R12	M	Weighed	Offsite in Ireland	Greenstar Bray,W0053-03	Lawlesstown, Clonmel, Co. Tipperary, ,Ireland Fassaroo, Bray, Co. Wicklow, ,Ireland Lower Ballymount Road, Walkinstown, Dublin 12, ,Ireland			
Within the Country	20 01 38	No	1471.76 wood other than that mentioned in 20 01 37	R12	M	Weighed	Offsite in Ireland	Irish Packaging Recycling,W0263-01	Conway Port Industrial Estate, Bollarney, Murrough, Co. Wicklow, ireland Larch Hill Stud, Newtownrathganley, Kildare, Co. Meath, Ireland			
Within the Country	20 01 39	No	25.12 plastics	R12	M	Weighed	Offsite in Ireland	Multimetals,WFP-09-0014-01	Drehid Landfill , Carbury ,Co Kildare , ,ireland Ballynagran, Coolbeg and Kicandra, Co. Wicklow, ,Ireland			
Within the Country	20 01 40	No	1771.987 metals	R12	M	Weighed	Offsite in Ireland	Enrich,WFP-MH-08-0004-02	Knockharley, Kentstown, Co. Meath, ,Ireland			
Within the Country	20 02 01	No	462.8 biodegradable waste	R3	M	Weighed	Offsite in Ireland	Bord na Mona. ,W0201-03	Carlanstown , Duleek ,Co Meath , ,ireland			
Within the Country	20 03 01	No	10287.96 mixed municipal waste	D1	M	Weighed	Offsite in Ireland	Greenstar Holdings Limited,W0165-02	Beauparc Business Park, Navan, Co. Meath, ,Ireland			
Within the Country	20 03 01	No	36272.0998 mixed municipal waste	D1	M	Weighed	Offsite in Ireland	Greenstar Holdings Limited,W0146-01	Ballymount Road, Walkinstown, Dublin 12, ,Ireland			
Within the Country	20 03 01	No	7751.496 mixed municipal waste	R1	M	Weighed	Offsite in Ireland	Indaver IWMF ,W0167-02	Rosemount Business Park ,Ballycoolin, Dublin 11, ,Ireland			
Within the Country	20 03 01	No	45.26 mixed municipal waste	R12	M	Weighed	Offsite in Ireland	Nurendale,W0140-04	Conway Port Industrial Estate, Bollarney, Murrough, Co. Wicklow, ireland			
Within the Country	20 03 01	No	2929.152 mixed municipal waste	R12	M	Weighed	Offsite in Ireland	SDCC Baling Station,W0003-03	Beauparc Business Park, Navan, Co. Meath, ,Ireland			
Within the Country	15 01 02	No	14.32 plastic packaging	R12	M	Weighed	Offsite in Ireland	CLOUGHWATER PLASTICS IRELAND L,WFP-FG-08-0002-04	Millennium Park, Ballyncolin, Dublin 11, ,Ireland			
Within the Country	15 01 04	No	3.68 metallic packaging	R12	M	Weighed	Offsite in Ireland	Multimetals,WFP-09-0014-01	Millennium Park, Ballyncolin, Dublin 11, ,Ireland			
Within the Country	15 01 04	No	23.8 metallic packaging mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17	R12	M	Weighed	Offsite in Ireland	Nurendale,W0140-03				
Within the Country	17 01 07	No	29.98 01 06	R12	M	Weighed	Offsite in Ireland	Greenstar MP,W0183-01				

Within the Country	17 01 07	No	105.24 mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	R12	M	Weighed	Offsite in Ireland	Greenstar Bray,W0053-03	Fassaroe,Bray,Co. Wicklow, Ireland
Within the Country	17 02 03	No	4.78 plastic mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R12	M	Weighed	Offsite in Ireland	Leinster Environmentals,WFP-LH-11-0002-01	Clermont Business Park,Haynestown TD,Haggardstown,Dundalk Co. Louth,Ireland
Within the Country	17 09 04	No	86.06 mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R12	M	Weighed	Offsite in Ireland	Greenstar MP,W0183-01	Millennium Park,Ballyncolin,Dublin 11, Ireland
Within the Country	17 09 04	No	12474.4 mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R12	M	Weighed	Offsite in Ireland	Panda Beauparc,W0140-03	Beauparc Business Park,Navan,Co. Meath, Ireland
Within the Country	20 01 40	No	213.54 metals	D12	M	Weighed	Offsite in Ireland	DAVIS RECYCLING INTERNATIONAL LTD,IRE/AG246/19	Block 648 ,Jordanstown Drive ,Jordanstown Rathcoole ,Co. Dublin,Ireland
Within the Country	20 01 40	No	6.14 metals	D12	M	Weighed	Offsite in Ireland	Panda Beauparc,W0140-03	Beauparc Business Park,Navan,Co. Meath, Ireland
Within the Country	20 03 01	No	17481.3 mixed municipal waste	R1	M	Weighed	Offsite in Ireland	Covanta Plant - Dublin Waste To Energy ,W0232-01 (IED)	Poolbeg ,Pigeon House Road ,Poolbeg Peninsula ,Dublin 4,Ireland
Within the Country	20 03 07	No	20.0 C&I Dry Mixed	R12	M	Weighed	Offsite in Ireland	Greenstar Bray,W0053-03	Fassaroe,Bray,Co. Wicklow, Ireland
Within the Country	20 03 07	No	14924.99 C&I Dry Mixed	R12	M	Weighed	Offsite in Ireland	Panda Beauparc,W0140-03	Beauparc Business Park,Navan,Co. Meath, Ireland
Within the Country	20 03 07	No	3.48 Mattresses	R12	M	Weighed	Offsite in Ireland	Nurendale,W0261-01	Meath, Ireland Cappagh Road,Finglas,Dublin 11, Ireland
Within the Country	16 06 01	Yes	1.84 lead batteries	R12	M	Weighed	Offsite in Ireland	ELECTRICAL WASTE MANAGEMENT,WFP-DS-09-0012-01	Greenogue Facility ,Rathcoole County Dublin,County Dublin, Ireland
Within the Country	15 01 02	No	13.04 plastic packaging	R12	M	Weighed	Offsite in Ireland	CLOUGHWATER PLASTICS IRELAND L,WFP-FG-08-0002-03	Rosemount Business Park ,Ballycoolin,Dublin 11, Ireland

ADD NEW ROW

DELETE ROW *

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

