

 **Panda**
An Animal for Recycling

Site: Ballymount Cross, Tallaght, Dublin 24

Waste Licence Number W0039-02

Annual Environmental Report

01st January 2015 – 31st December 2015

Table of Contents

Table of Contents	2
1. Introduction.....	4
1.1 Company details.....	4
1.2 Management Structure	4
1.3 Financial Provision	5
1.4 Environmental Policy.....	5
1.5 Activities	5
1.6 Waste Activities carried out at the Facility.....	7
1.7 Water Usage:.....	7
2. Summary Information.....	7
2.1 Waste Received.....	7
2.2 Waste Transferred Off-Site for Disposal or Recovery	8
2.3 Waste Recovery Reports.....	8
2.4 Summary report on emissions and interpretation of environmental monitoring	9
2.4.1 <i>Surface Water</i>	10
2.4.2 <i>Foul Water</i>	11
2.4.3 <i>Dust Emissions</i>	11
2.4.4 <i>Noise Emissions</i>	13
2.4.5 <i>Bund, pipe and underground storage tanks integrity</i>	14
2.4.6 <i>Summary of resource and energy consumption</i>	14
2.4.7 <i>Water</i>	14
2.5 Site infrastructure.....	15
2.5.1 <i>In-place</i>	15
2.5.2 <i>Planned Infra-structure</i>	15
2.6 Progress Report on Proposals Developed to Minimise Water Demand & Trade Effluent Discharge	16
2.7 PRTR Emission.....	16
3. Environmental objectives and targets – 2015 and 2016.	17
3.1 Summary of reported incidents and complaints.....	19
3.1.1 <i>Reported Incidents Summary</i>	19
3.1.2 <i>Complaints:</i>	19
3.2 Review of nuisance controls	19
3.2.1 <i>Odour</i>	19

3.2.2 Noise	19
3.2.3 Dust	19
3.2.4 Vermin	19
3.2.5 Flies.....	20
3.2.6 Birds.....	20
3.2.7 Litter.....	20
4.0 Development of Procedures on Site.....	20
5.0 Pollution Emission Register.....	20
6.0 Report on Programme for Public Information	20
Appendix A.....	22
Appendix B	23
Appendix C	24
Appendix D.....	25

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.

1.1 Company details

Licence No:	W0039-02
Name:	Nurendale T/a Panda Waste Services
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 Noel Waters are company Directors. David Naughton is the Environmental Manager. David Boyd is the facility Manager and Mark Andrews the deputy facility manager on site. There are 120 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 is being considered by the Agency prior to implementation.

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:

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.

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 2015 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 P&L's weighbridge software "IWS6". 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 to Panda's headquarters 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:

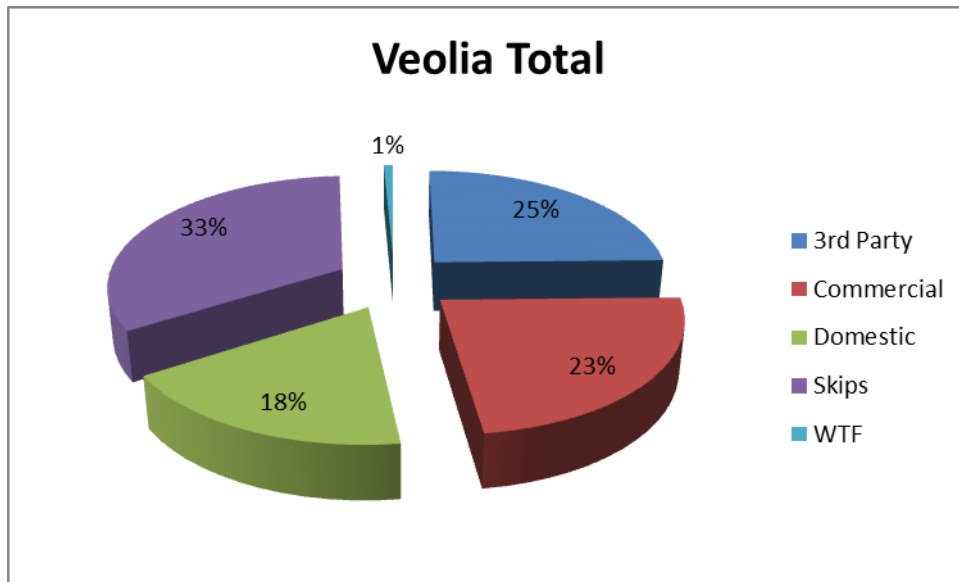
- In-house road sweeper (daily visits).
- Dust suppression sprayers in the shed and on the doorways.
- Hoses on site for dust suppression.
- Fire Fighting equipment.

2. Summary Information

2.1 Waste Received

The waste received at the facility from the 1st January 2015 to the 31st December 2015 was 113,185 tonnes. From the pie chart (Fig 1) it is evident that 3rd party deliveries are the largest source of Panda's waste accepted into Ballymount with domestic waste and skip deliveries the next largest.

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



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 Reports

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.

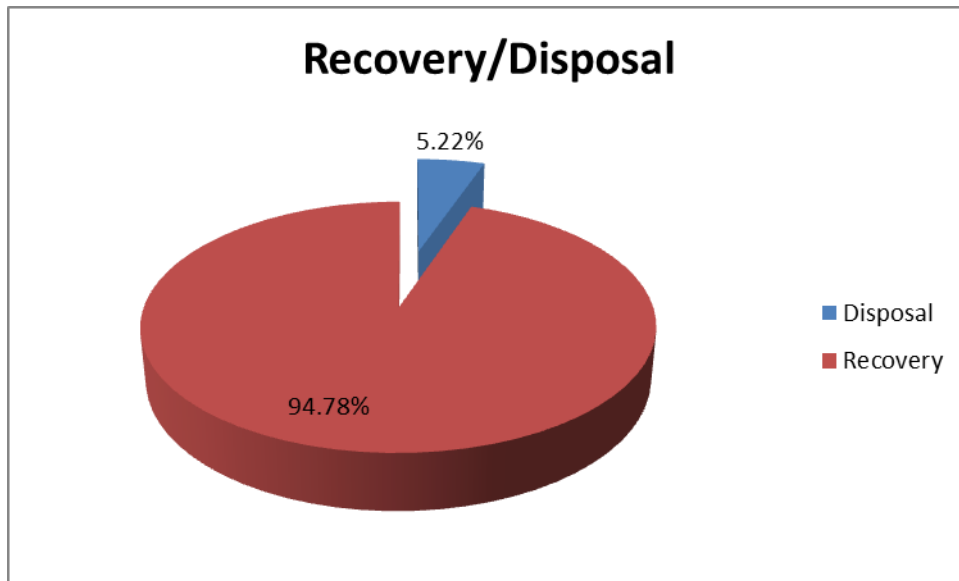
Panda applied to the Agency for a review the current Waste Licence (W0140-03) for the Beauparc facility in September 2009. This review was submitted to the Agency, so that Panda can produce a SRF/RDF product from the residual waste previously sent to Landfill. Panda also reviewed the licence for the 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 Beauparc 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 details the recovery rates of waste leaving Panda’s facility.

Fig. 2: Outgoing destination recovery rate.



2.4 Summary report on emissions and interpretation of environmental monitoring

Under Schedule C of the licence W0039-2, 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 Surface Water

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 2015

Parameter	Units	30/01/15	26/02/15	27/03/15	29/04/15	28/05/15	26/06/15
BOD	mg/L	<2	<2	<2	4	<2	4
COD	mg/L	5	33	20	43	15	29
Electrical Conductivity	Uscm-1@20C	903	1090	1206	872	588	700
Oils, Fats & Grease	mg/L	<1	<1	<1	<1	<1	<1
pH	pH units	7.5	7.3	7.6	7.7	7.4	7.5
Suspended Solids	mg/L	12	5	10	7	2	11
Temperature on receipt	Deg C	7.8	7.2	7.8	14.8	19.3	16.9

Parameter	Units	July	28/08/15	04/09/15	23/10/14	Nov.	15/12/15
BOD	mg/L	Ns	<2	<2	<2	Ns	<2
COD	mg/L	Ns	26	28	15	Ns	23
Electrical Conductivity	Uscm-1@20C	Ns	370	402	539	Ns	193.1
Oils, Fats & Grease	mg/L	Ns	<1	<1	<1	Ns	<1
pH	pH units	Ns	7.4	7.6	7.3	Ns	8.0
Suspended Solids	mg/L	Ns	16	19	<2	Ns	24
Temperature on receipt	Deg C	Ns	18.4	15.8	13.2	Ns	11.7

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

There were no exceedances during the reporting period. There were 2 months where no samples were taken as there was no flow during numerous attempts at taking a sample.

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).

Table 2. Foul water monitoring 2015

Parameter	Units	30/01/15	27/03/15	28/05/15	23/07/15	04/09/15	15/12/15
BOD	mg/L	180	125	160	225	105	95
COD	mg/L	491	485	486	468	353	397
Oils, Fats & Grease	mg/L	21	12	14	20	<1	8
pH	pH units	7.3	8.0	8.3	8.4	8.3	7.7
Surfactants	ug/L	316.1	673	233.6	1212	922.5	963.3
Suspended Solids	mg/L	285	70	166	146	130	71
Temperature on receipt	Deg C	7.8	7.6	18.9	Lab did not test	15.6	11.4

Temperature was not tested for the July sample in the lab when the sample was delivered.

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 2015.

Fig. 3: Dust emission results for DS1

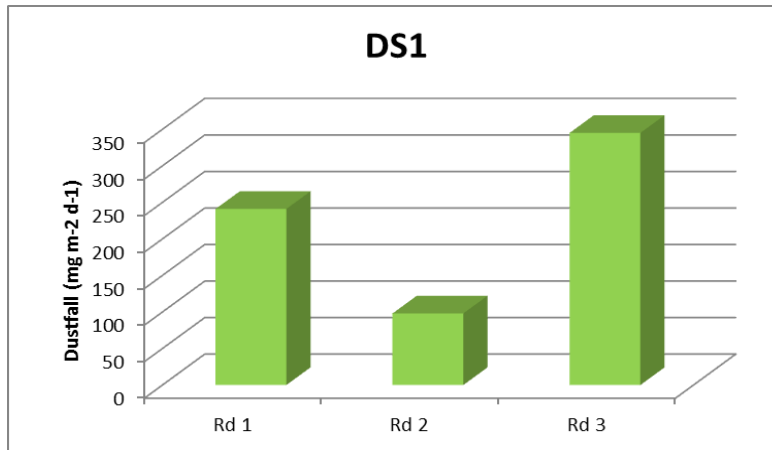


Fig. 4: Dust emission results for DS2

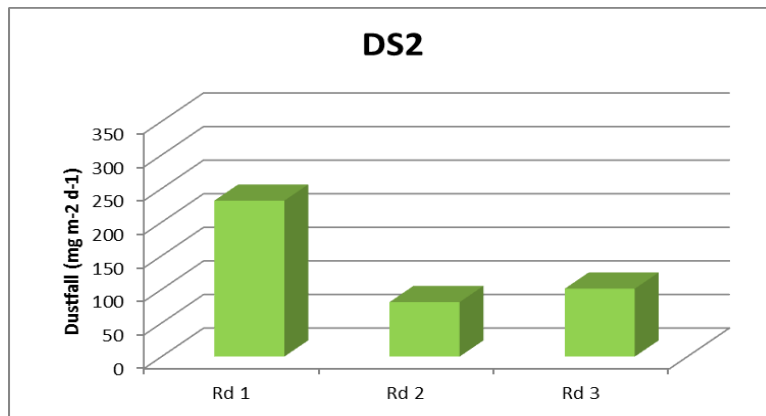


Fig. 5: Dust emission results for DS3

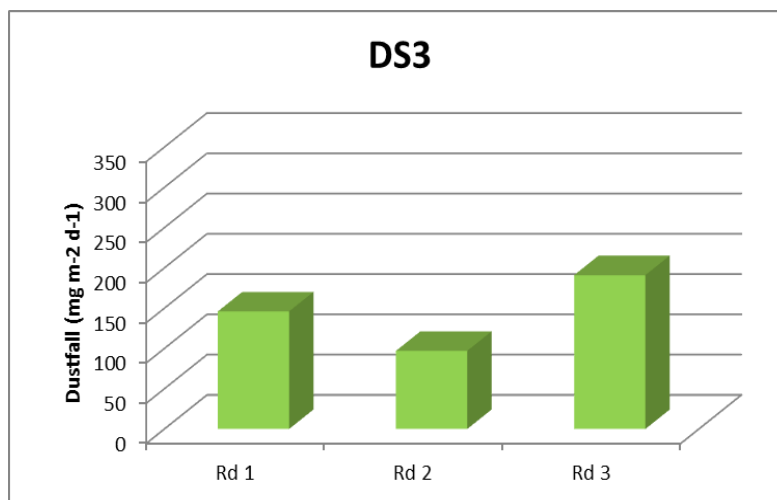
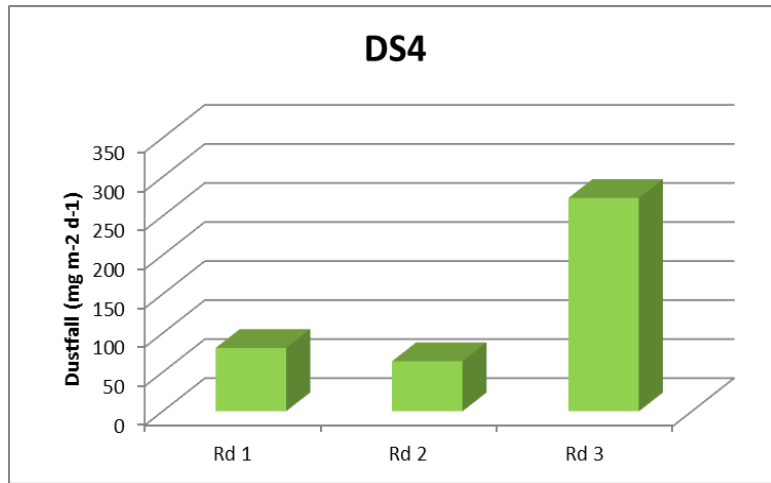


Fig 6: Dust emissions results for DS4



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 on the 16th December 2015.

Table 3.

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

Location	Time	Leq	L10	L90	Comments
B1	14.02	69.2	72.4	63.9	Forklift moving within 1m of monitor during survey
B2	14.23	68.6	71.3	63.6	Trucks entering and exiting building at 1.5m from location of monitor
B3	15.06	62.4	64.0	60.2	Road traffic (Ballymount Rd Upper) Site activity in-audible at this location and less than 55dBA
NSL1	15.27	68.8	72.0	63.4	Road traffic on Ballymount Road Upper Waste facility inaudible at less than Lmin of 56.0dBA. Site emissions less than 55dBA

Table 4

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

Location	Time	Leq	L10	L90	Comments
B1	22.03	51.5	54.6	51.1	Road traffic-No activity on Waste site
B2	22.12	51.4	54.4	51.0	Road traffic-No activity on Waste site
B3	22.38	54.1	56.4	52.5	Road traffic-No activity on Waste site
NSL1	22.46	58.4	61.3	55.8	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).

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. The results show that the bund has maintained its integrity. The pipeline integrity test has been carried out in 2013, following alterations to the drainage network. This is to be retested in 2016.

2.4.6 Summary of resource and energy consumption

Table 5: Summary of Energy Consumption from January 2015 to December 2015.

Resource	
Gas Oil	98,846.2 Litres
Electricity	258.96 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 & 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 D.

3. Environmental objectives and targets – 2015 and 2016.

No	Objective & Target	Method of Achievement	Responsibility	2015 Programme	Complete in 2015	2016 Programme
1	Assess the Effectiveness of Nuisance Control Procedures	Continually review and assess all nuisance control procedures to ensure minimal impact on surrounding area	Environmental Manager	July '15	Completed in '15	July '16
		Ensure yards are cleaned at the end of each working day	Operatives	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	Environmental Manager	Continuous	Continuous	Continuous
		Update procedures to reflect operational and control changes				
4	Assess Waste Acceptance Procedures so as to minimise volume of erratic's	Communicate with customers about the items that are not acceptable in the in-coming wastes	Call Centre/Sales Reps	Continuous	Continuous	Continuous
5	Environmental Monitoring	Implement the Environmental Monitoring Programme specified in the Waste Licence	Environmental Manager	Continuous	Continuous	Continuous
		Investigate any accidents of emission limit values	Environmental Manager	Continuous	Continuous	Continuous
6	Ensure and implement a training programme	Identify staff training requirements and provide relevant training	Environmental Dept	July '15	Completed in '15	July '16
7	To control any emergencies that may arise at the facility	Review and implement the Emergency Response Procedure	Environmental Manager	July '15	Completed in '15	July '16

No	Objective & Target	Method of Achievement	Responsibility	2015 Programme	Complete in 2015	2016 Programme
8	Prepare a Standard Operating Procedures Manual	Review the SOP manual relevant to site operations	Environmental Manager	July '15	Completed in '15	July '16
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	Aug '15	Completed in '15	
10	Office Recycling	Review office recycling	Facility Manager	Continuous	Continuous	Continuous
11	Pipe Integrity Test	Carry out a Pipe Integrity Test	Environmental Manager	Q3 '13	Completed	Q3 '16
12	Yard Sweeper	Purchase Permanent yard sweeper for yard	Maintenance Dept	Q1 '15	Completed in '15	
13	Achieve ISO accreditation	Carry 1 st Stage Audit	Legal & Compliance Counsel	Q4 '15	Completed in '15	Retain in '16
14	Yard lighting	Upgrade to LED yard lighting internally and Externally	Maintenance Dept			Q3 '16

3.1 Summary of reported incidents and complaints

3.1.1 Reported Incidents Summary

There were no reportable incidents in 2015.

3.1.2 Complaints:

There were no complaints made to the Agency and/or the facility during this reporting year of 2015.

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.

There is a power washer available to wash odorous bins. 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.

4.0 Development of Procedures on Site

The Emergency Response Procedure (ERP) was reviewed and amended to reflect the changes of the company and update useful contact telephone numbers.

A review of all site procedures was carried out, SOP No. 22 (Daily Clean Down) was developed for the site in 2015.

5.0 Pollution Emission Register

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

6.0 Report on Programme for Public Information

Panda have re-developed their website in 2015; one of the features is an Environmental page where the following can be downloaded,

- Facility licences (W0003-03, **W0039-02**, W0140-03, W0238-01, W0261-01, W0263-01)
- Multi-regional Waste collection permit (NWCPO-14-11326-02),
- 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 2015 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.

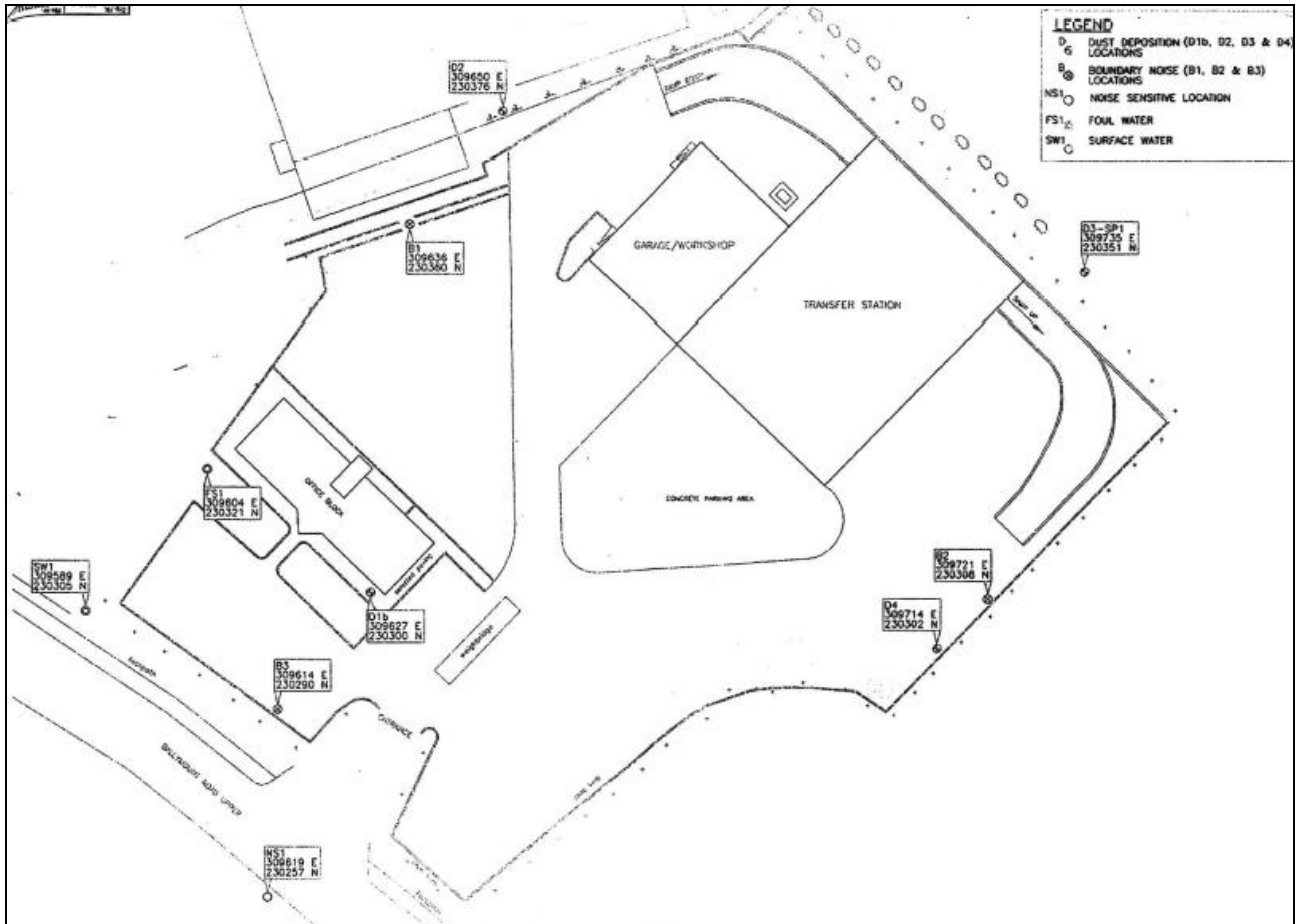
Recycling certificates are issued to customers, on request, so that they can determine their recycling on a weekly/monthly or annual basis.

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 2015.

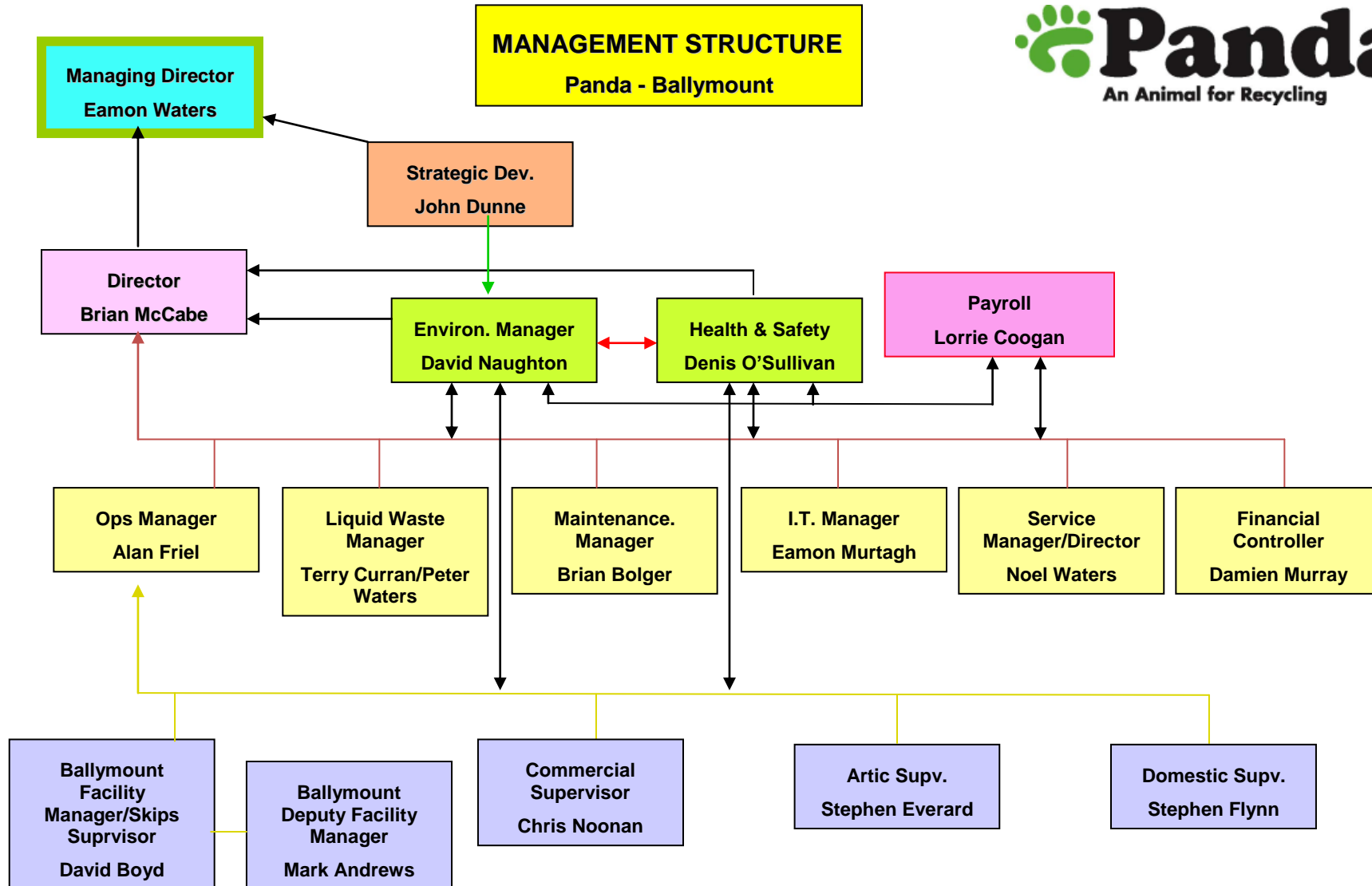
Appendix A

Site Layout



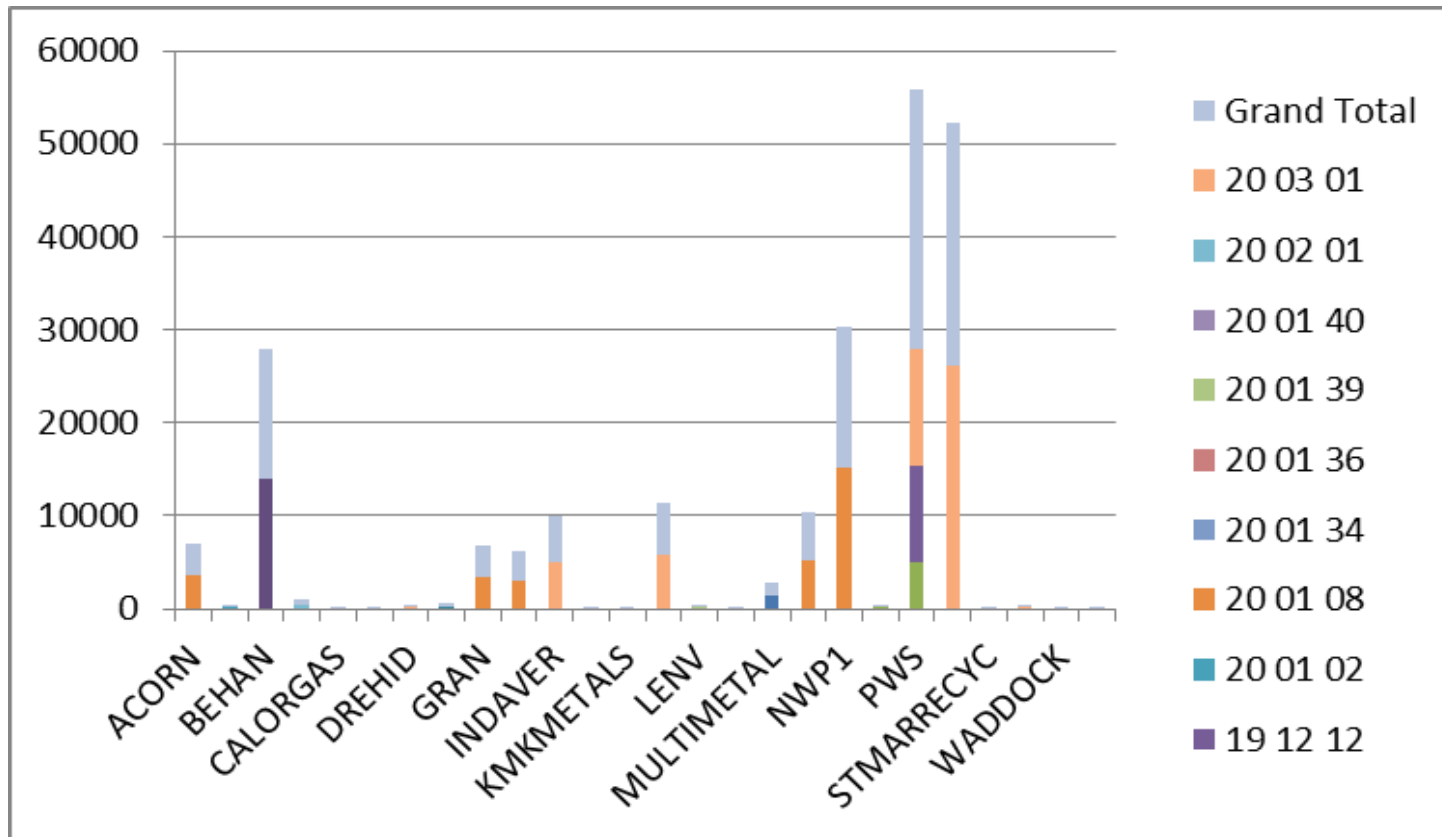
Appendix B

Organisational Structure



Appendix C

Outgoing by Destination



Appendix D

PRTR Emissions



Environmental Protection Agency

W0039_2015 PRTR.xls | Return Year : 2015 |

[Guidance to completing the PRTR workbook](#)

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR	2015
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1. FACILITY IDENTIFICATION

Parent Company Name	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	David Naughton
AER Returns Contact Email Address	david.naughton@nurendale.ie
AER Returns Contact Position	Environmental Manager
AER Returns Contact Telephone Number	1890626262
AER Returns Contact Mobile Phone Number	0866045905
AER Returns Contact Fax Number	0469024189
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	120
User Feedback/Comments	
Web Address	www.panda.ie

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?	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)?	No
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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](#)

| PRTR# : W0039 | Facility Name : Nurendale (Ballymount Cross) | Filename : W0039_2015 PRTR.xls | Return Year : 2015 |

30/03/2016 13:05

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR							Please enter all quantities in this section in KGs		
No. Annex II	POLLUTANT Name	M/C/E	METHOD		QUANTITY				
			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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO AIR							Please enter all quantities in this section in KGs		
No. Annex II	POLLUTANT Name	M/C/E	METHOD		QUANTITY				
			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

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

RELEASES TO AIR							Please enter all quantities in this section in KGs				QUANTITY	
Pollutant No.	Name	M/C/E	METHOD		DS1	DS2	DS3	DS4	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
			Method Code	Designation or Description	Emission Point 1	Emission Point 2	Emission Point 3	Emission Point 4				
210	Dust	M	ALT	Gravity	0.08	0.05	0.05	0.05	0.23	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 required to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generation. 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				NA
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				NA

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

| PRTR# : W0039 | Facility Name : Nurendale (Ballymount Cross) | Filename : W0039_2015 PRTR.xls | Return Year : 2015 |

30/03/2016 13:08

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 as this only concerns Releases from your facility

RELEASES TO WATERS							Please enter all quantities in this section in KGs		
No. Annex II	POLLUTANT Name	M/C/E	METHOD USED		QUANTITY				
			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

SECTION B : REMAINING PRTR POLLUTANTS

RELEASES TO WATERS							Please enter all quantities in this section in KGs		
No. Annex II	POLLUTANT Name	M/C/E	METHOD USED		QUANTITY				
			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

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

RELEASES TO WATERS							Please enter all quantities in this section in KGs		
Pollutant No.	Name	M/C/E	METHOD USED		QUANTITY				
			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

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR# : W0039 | Facility Name : Nurendale (Ballymount Cross) | Filename : W0039_2015 | 30/03/2016 13:08

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			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.0	0.0	0.0	0.0

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

SECTION B : REMAINING 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			QUANTITY				
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	Emission Point 2	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
303	BOD	M	PER	Calculated on annual flow rate. Analysis is ISO accredited	0.6	0.0	0.6	0.0	0.0
306	COD	M	PER	Calculated on annual flow rate. Analysis is ISO accredited	1.81	0.0	1.81	0.0	0.0
314	Fats, Oils and Greases	M	PER	Calculated on annual flow rate. Analysis is ISO accredited	0.05	0.0	0.05	0.0	0.0
308	Detergents (as MBAS)	M	PER	Calculated on annual flow rate. Analysis is ISO accredited	0.0	0.0	0.0	0.0	0.0
240	Suspended Solids	M	PER	Calculated on annual flow rate. Analysis is ISO accredited	0.59	0.0	0.59	0.0	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# : W0039 | Facility Name : Nurendale (Ballymount Cross) | Filename : W0039_2015 PRTR.xls | Return Year : 2015 |

30/03/2016 13:09

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND					Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
No. Annex II	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

SECTION B : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

RELEASES TO LAND					Please enter all quantities in this section in KGs		
POLLUTANT		METHOD			QUANTITY		
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

6. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

PRTR No: W0009 | Facility Name: Nurondala (Ballymount Cross) | File Name: W0009_2015 PRTR.xls | Return Year: 2015 |

30/03/2016 13:05

Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Hazardous Waste Name and License/Permit No of Next Destination Facility		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/G/E	Method Used		Haz Waste Name and License/Permit No of Recoverer/Disposer	Non Haz Waste Name and License/Permit No of Recoverer/Disposer		
Within the Country	15 01 02	No		plastic packaging	R12	M	Weighed	Offsite in Ireland	Johmick Ltd,WFP-FG-13-0001-01		Main St,Garristown,Co. Dublin,,Ireland	
Within the Country	15 01 02	No	1.04	plastic packaging	R12	M	Weighed	Offsite in Ireland	Irish Packaging Recycling,W0263-01		Lower Ballymount Road,Walkinstown,Dublin 12,,Ireland	
Within the Country	16 01 03	No	3.18	end-of-life tyres	R12	M	Weighed	Offsite in Ireland	Irish Packaging Recycling,W0263-01		Lower Ballymount Road,Walkinstown,Dublin 12,,Ireland	
Within the Country	16 05 05	No	0.38	gases in pressure containers other than those mentioned in 16 05 04	R13	M	Weighed	Offsite in Ireland	Calor Gas,N/a		Hollywood Great Nags Head,The Nauf,Co. Dublin,Ireland	
Within the Country	17 01 07	No		ceramics other than those mentioned in 17 01 06	R10	M	Weighed	Offsite in Ireland	Murphy Environmental,W0129-01		Bohan Land Restoration Ltd,W0247-01	
Within the Country	17 05 04	No	13929.5	soil and stones other than those mentioned in 17 05 03	R10	M	Weighed	Offsite in Ireland			Boauparc Business Park,Navan,Co. Moath,,Ireland	
Within the Country	17 05 04	No		soil and stones other than those mentioned in 17 05 03	R12	M	Weighed	Offsite in Ireland	Panda Beauparc,W0140-03		Cappagh Road,Finglas,Dublin 11,,Ireland	
Within the Country	17 08 02	No	245.68	gypsum-based construction materials other than those mentioned in 17 08 01	R12	M	Weighed	Offsite in Ireland	Nurondala,W0261-01		Boauparc Business Park,Navan,Co. Moath,,Ireland	
Within the Country	17 09 04	No	10.06	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	Panda Beauparc,W0140-03		Kiffagh,Crosserlough,Ballyja mesduff,Co. Cavan,Ireland	
Within the Country	19 12 02	No	20.52	ferrous metal	R12	M	Weighed	Offsite in Ireland	Wilton Waste Recycling Ltd,WFP-CN-10-0005-01(1)		Conway Port Industrial Estate,Bollanoy,Murrough,Co. Wicklow,Ireland	
Within the Country	19 12 02	No	1412.4	ferrous metal	R12	M	Weighed	Offsite in Ireland	Multimetals,WFP-09-0014-01		Boauparc Business Park,Navan,Co. Moath,,Ireland	
Within the Country	19 12 02	No		ferrous metal	R12	M	Weighed	Offsite in Ireland	Nurondala,W0140-03		Conway Port Industrial Estate,Bollanoy,Murrough,Co. Wicklow,Ireland	
Within the Country	19 12 03	No		non-ferrous metal	R12	M	Weighed	Offsite in Ireland	Multimetals,WFP-09-0014-01		Boauparc Business Park,Navan,Co. Moath,,Ireland	
Within the Country	19 12 07	No	4956.1	wood other than that mentioned in 19 12 06	R12	M	Weighed	Offsite in Ireland	Nurondala,W0140-03		Conway Port Industrial Estate,Bollanoy,Murrough,Co. Wicklow,Ireland	
Within the Country	19 12 07	No	24.36	wood other than that mentioned in 19 12 06	R12	M	Weighed	Offsite in Ireland	Nurondala,W0261-01		Road,Finglas,Dublin 11,,Ireland	
Within the Country	19 12 09	No		minerals (for example sand, stones)	R13	M	Weighed	Offsite in Ireland	Arthurstown Landfill,W0004		Kil,Co. Kildare,,Ireland	
Within the Country	19 12 10	No		combustible waste (refuse derived fuel) 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	Nurondala,W0140-03		Boauparc Business Park,Navan,Co. Moath,,Ireland	
Within the Country	19 12 12	No	10347.5	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	Nurondala,W0140-03		Boauparc Business Park,Navan,Co. Moath,,Ireland	
Within the Country	19 12 12	No		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	Nurondala,W0261-01		Cappagh Road,Finglas,Dublin 11,,Ireland	
Within the Country	19 12 12	No		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	Midland Waste,W0131		Navan,Co. Moath,,Ireland	

Within the Country	19 12 12	No	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R12	M	Weighted	Offsite in Ireland	Oxigon,W0208	Ballymount,Dublin 22,...,Ireland
Within the Country	19 12 12	No	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R12	M	Weighted	Offsite in Ireland	SDCC Baling Station,W0003-03	Ballymount Road,Walkinstown,Dublin 12,...,Ireland
Within the Country	20 01 02	No	glass	R13	M	Weighted	Offsite in Ireland	Agnail,Ira/Ag117/12	Unit 9 Rosfield,50 Rosamount Business Park,Ballycoolin,Dublin 11,Ireland
Within the Country	20 01 06	No	3536.51 biodegradable kitchen and canteen waste	R3	M	Weighted	Offsite in Ireland	Acom Recycling,W0249-01	Littleton,Co. Tipperary,...,Ireland
Within the Country	20 01 06	No	28.24 biodegradable kitchen and canteen waste	R3	M	Weighted	Offsite in Ireland	Waddock Composting,WFR-CW-13-001-01	Killmaster,Co. Carlow,...,Ireland
Within the Country	20 01 06	No	biodegradable kitchen and canteen waste	R3	M	Weighted	Offsite in Ireland	O'Toole Composting ,WFR-CW-10-0003-01	Ballintrae , Fonagh ,Co Carlow ... ,Ireland
To Other Countries	20 01 06	No	15161.78 biodegradable kitchen and canteen waste	R3	M	Weighted	Abroad	Natural World Products,NI 023268	55 Cargaclougher Road,Keedy,Co. Armagh,BT60 3FA, United Kingdom
Within the Country	20 01 06	No	biodegradable kitchen and canteen waste	R3	M	Weighted	Offsite in Ireland	Bord na Mona ,_W0201-03	Drohid Landfill , Carbury ,Co Kildare ... ,Ireland
Within the Country	20 01 06	No	biodegradable kitchen and canteen waste	R3	M	Weighted	Offsite in Ireland	Enviro Grind Ltd,WFR-DL-11-004-01	Donagal rd,Patigo,Co. Donagal,...,Ireland
To Other Countries	20 01 06	No	3398.78 biodegradable kitchen and canteen waste	R3	M	Weighted	Abroad	Granville Ecopark Ltd,P0413/13A	Tyrone ,BT70 1NJ,United Kingdom
Within the Country	20 01 06	No	biodegradable kitchen and canteen waste	R3	M	Weighted	Offsite in Ireland	Kilmainhamwood Compost,W0195-01	Ballynalurgan,Kilmainhamwood,Kells,Co. Meath,Ireland
To Other Countries	20 01 06	No	5230.07 biodegradable kitchen and canteen waste	R3	M	Weighted	Abroad	Natural World Products Glenside,P0341-10A	Glenside Road,Dunmurry,Co. Antrim,BT17 0LH,United Kingdom
To Other Countries	20 01 06	No	3095.86 biodegradable kitchen and canteen waste	R3	M	Weighted	Abroad	Greenacre Composting Enterprises Ltd,LN/09/96/M	102-104 Moira Road,Nutts Corner,Crumlin,Co. Antrim BT29 4HG,United Kingdom
Within the Country	20 01 34	No	4.72 mentioned in 20 01 33	R12	M	Weighted	Offsite in Ireland	Wilton Waste Recycling Ltd,WFR-CN-10-0005-01(1)	Kiffagh,Crosserlough,Ballyja masduff,Co. Cavan,Ireland
Within the Country	20 01 36	No	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R12	M	Weighted	Offsite in Ireland	KMK Metals,W0113-03	Cappinour Industrial Estate,Daingean Road,Tullamore,Co. Offaly,Ireland
Within the Country	20 01 38	No	wood other than that mentioned in 20 01 37	R12	M	Weighted	Offsite in Ireland	Clonmal Waste Disposal,WFR-TS-11-0001-01	Lawlesstown,Clonmal,Co. Tipperary ,Ireland
Within the Country	20 01 39	No	1.4 plastics	R12	M	Weighted	Offsite in Ireland	Irish Packaging Recycling,W0263-01	Lower Ballymount Road,Walkinstown,Dublin 12,...,Ireland
Within the Country	20 01 39	No	174.98 plastics	R12	M	Weighted	Offsite in Ireland	Loinster Environmentals,WFR-LH-11-0002-01	Clarmont Business Park,Haynestown TD,Haggardstown,Dundalk Co. Louth,Ireland
Within the Country	20 01 39	No	plastics	R12	M	Weighted	Offsite in Ireland	Wilton Waste Recycling Ltd,WFR-CN-10-0005-01(1)	Kiffagh,Crosserlough,Ballyja masduff,Co. Cavan,Ireland
Within the Country	20 01 40	No	12.02 metals	R12	M	Weighted	Offsite in Ireland	Multimetals,WFR-09-0014-01	Cornewy Port Industrial Estate,Bollansey,Murrough,Co. Wicklow,Ireland
Within the Country	20 01 40	No	5.52 metals	R12	M	Weighted	Offsite in Ireland	Wilton Waste Recycling Ltd,WFR-CN-10-0005-01(1)	Kiffagh,Crosserlough,Ballyja masduff,Co. Cavan,Ireland
Within the Country	20 02 01	No	510.06 biodegradable waste	R3	M	Weighted	Offsite in Ireland	Bord na Mona,W0198-01	Kilberry Athy,Co. Kildare,...,Ireland
Within the Country	20 02 01	No	biodegradable waste	R13	M	Weighted	Offsite in Ireland	Nurendale,W0261-01	Cappagh Road,Finglas,Dublin 11,...,Ireland

Within the Country	20 02 01	No	biodegradable waste	R3	M	Waighad	Offsite in Ireland	Enrich,WFP-MH-08-0004-02	Larch Hill Stud, Newtownrathgarloy, Killock, Co. Meath, Ireland
Within the Country	20 03 01	No	Dry Recyclables	R12	M	Waighad	Offsite in Ireland	Killamay Waste Disposal ,W217-01	Killamay ,Co Kerry ,Ireland
Within the Country	20 03 01	No	mixed municipal waste	R13	M	Waighad	Offsite in Ireland	Grayhound Recycling & Recovery,W0205-01	Crag Avenue, Clondalkin Industrial Estate, Clondalkin ,Dublin 22, Ireland
Within the Country	20 03 01	No	Dry Recyclables	R12	M	Waighad	Offsite in Ireland	Dillon Recycling,WFP-KY-10-001	Trillick, Kerry, ,Ireland
Within the Country	20 03 01	No	mixed municipal waste	D5	M	Waighad	Offsite in Ireland	Fingall Co Co , W0009-03	Balleally Landfill , Lusk ,Co Dublin, ,Ireland
Within the Country	20 03 01	No	128.72 mixed municipal waste	D5	M	Waighad	Offsite in Ireland	Bord na Mona ,W0201-03	Drohid Landfill , Carbury ,Co Kildare , ,Ireland
Within the Country	20 03 01	No	mixed municipal waste	D5	M	Waighad	Offsite in Ireland	Graenstar Holdings Limited,W0165-02	Ballynagran, Coolbeg and Kicandra, Co. Wicklow, ,Ireland
Within the Country	20 03 01	No	5736.96 mixed municipal waste	D5	M	Waighad	Offsite in Ireland	Graenstar Holdings Limited,W0146-01	Knockharley, Kantstown, Co. Meath, ,Ireland
Within the Country	20 03 01	No	4990.02 mixed municipal waste	R1	M	Waighad	Offsite in Ireland	Indaver WWMF ,W0167-02	Carlanstown , Duloek ,Co Meath , ,Ireland
Within the Country	20 03 01	No	mixed municipal waste	D5	M	Waighad	Offsite in Ireland	Louth Co Co ,W0060-02	Whiteriver Landfill , Dunlora ,Co Louth , ,Ireland
Within the Country	20 03 01	No	Dry Recyclables	R12	M	Waighad	Offsite in Ireland	Dublin City Council MRF,W0238-02	Marywell Business Park, Ballymount, Dublin 22, ,Ireland
Within the Country	20 03 01	No	mixed municipal waste	R12	M	Waighad	Offsite in Ireland	Midland Waste,W0131	Navan, Co. Meath, ,Ireland
Within the Country	20 03 01	No	mixed municipal waste	R12	M	Waighad	Offsite in Ireland	Miltown Composting ,W0270-01	Milownmore ,Fothard ,Co Tipperary , ,Ireland
Within the Country	20 03 01	No	mixed municipal waste	R12	M	Waighad	Offsite in Ireland	O'Toole Composting ,WFP-CW-10-0003-01	Ballintranee , Fanagh ,Co Carlow , ,Ireland
Within the Country	20 03 01	No	12582.0 Dry waste	R12	M	Waighad	Offsite in Ireland	Nurandala,W0140-03	Beauparc Business Park, Navan, Co. Meath, ,Ireland
Within the Country	20 03 01	No	26100.7 mixed municipal waste	R12	M	Waighad	Offsite in Ireland	SDCC Baling Station,W0003-03	Ballymount Road, Walkinstown, Dublin 12, ,Ireland
To Other Countries	17 08 02	No	gypsum-based construction materials other than those mentioned in 17 08 01	R12	M	Waighad	Abroad	MacNabb Bros Waste Disposal Ltd,LN09/111/M	23 Downpatrick Road, Killoogh, Co. Down, BT30 7GB, United Kingdom
Within the Country	17 08 02	No	gypsum-based construction materials other than those mentioned in 17 08 01	R12	M	Waighad	Offsite in Ireland	Nurandala,W0140-03	Beauparc Business Park, Navan, Co. Meath, ,Ireland
Within the Country	19 12 02	No	1.24 ferrous metal	R4	M	Waighad	Offsite in Ireland	KMK Metals,W0113-03	Cappinour Industrial Estate, Daingean Road, Tullamore, Co. Offaly, Ireland
Within the Country	19 12 03	No	1.38 non-ferrous metal	R4	M	Waighad	Offsite in Ireland	St Margarets Recycling,WFP-FG-13-0002-01	Sandyhill, St. Margarets, Co. Dublin, ,Ireland
Within the Country	19 12 03	No	3.6 non-ferrous metal	R4	M	Waighad	Offsite in Ireland	Wilton Waste Recycling Ltd,WFP-CN-10-0005-01(1)	Kiffagh, Crosserlough, Ballyjamesduff, Co. Cavan, Ireland
Within the Country	19 12 07	No	112.78 wood other than that mentioned in 19 12 06	R12	M	Waighad	Offsite in Ireland	Clonmel Waste Disposal,WFP-TS-11-0001-01	Lawlcestown, Clonmel, Co. Tipperary, ,Ireland
Within the Country	19 12 07	No	169.42 wood other than that mentioned in 19 12 06	R12	M	Waighad	Offsite in Ireland	Padraic Thornton Waste Disposal Ltd,WFP-KE-10-0061-01	Oldmilltown, Kil, Co. Kildare, ,Ireland
Within the Country	19 12 07	No	13.44 wood other than that mentioned in 19 12 06	R13	M	Waighad	Offsite in Ireland	SDCC Baling Station,W0003-03	Ballymount Road, Walkinstown, Dublin 12, ,Ireland
Within the Country	20 01 02	No	183.98 glass	R12	M	Waighad	Offsite in Ireland	Johmick Ltd,WFP-FG-13-0001-01	Main St, Garristown, Co. Dublin, ,Ireland
Within the Country	20 01 36	No	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R4	M	Waighad	Offsite in Ireland	St Margarets Recycling,WFP-FG-13-0002-01	Sandyhill, St. Margarets, Co. Dublin, ,Ireland

Within the Country	20 03 01	No	13.49 Dry Recyclables	R12	M	Weighted	Offsite in Ireland	Irish Packaging Recycling, W0263-01	Lower Ballymount Road, Walkinstown, Dublin 12, Ireland
Within the Country	20 03 01	No	191.2 Dry waste	R12	M	Weighted	Offsite in Ireland	Padraic Thornton Waste Disposal Ltd, W0044-02	Killean Road, Ballyfermot, Dublin 10, Ireland

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