

 **Panda**  
**An Animal for Recycling**

*Site: Ballymount Cross, Tallaght, Dublin 24*

*Waste Licence Number W0039-02*

*Annual Environmental Report*

*01<sup>st</sup> January 2012 – 31<sup>st</sup> December 2012*

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## 1. Introduction

Panda were granted the EPA Waste Licence W0039-02 on the 10<sup>th</sup> 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 Limited T/a Panda Waste Services

Address: Ballymount Cross,  
Tallaght,  
Dublin 24.

Telephone Number: 1850 65 65 65

Fax Number: 01 4245011

Website: [www.panda.ie](http://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 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

A statement from our accountants is provided in Appendix C. At the present time the annual turnover and company assets are sufficient to offset environmental liabilities incurred during the course of operations and in the event that the company is closed.

### 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 and was awarded the Repak “Large Operator of the Year

award 2007” and “Runner up” in 2008, 2009, 2010, 2011 and 2012. Panda also won the inaugural Meath Innovator of the year 2010 and Meath Overall Business of the year 2010. The facility is licenced to operate 24 hours a day, however, the normal facility operating hours are 6am-5pm (Monday-Friday) & 6am-2pm (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 “IWS5”, which was upgraded to “IWS6” during the year. 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, dry mixed recyclables 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:

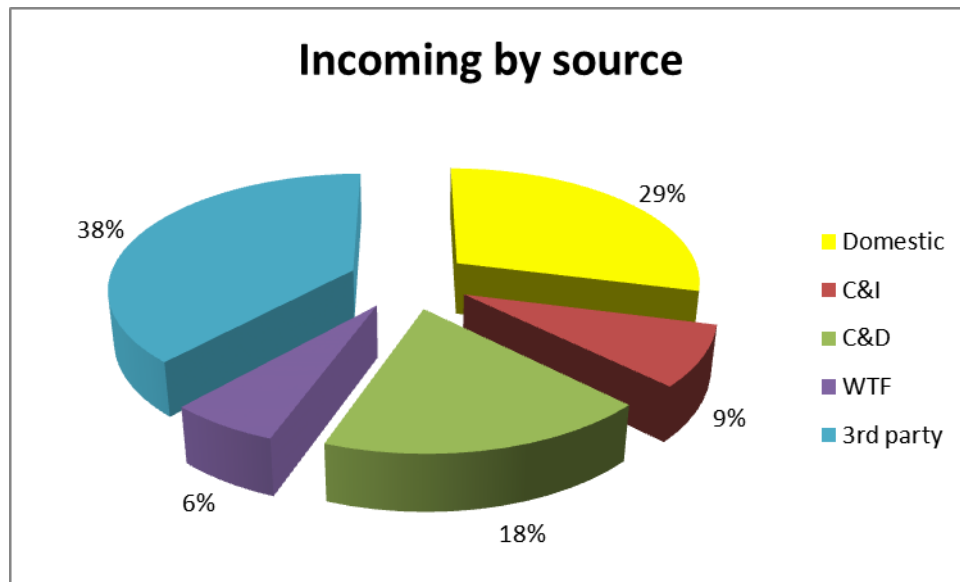
- In-house road sweeper (3 visits per week).
- Dust suppression sprayers in the shed and on the doorways.
- Hoses on site for dust suppression.
- Fire Fighting equipment.

## 2. Summary Information

### 2.1 Waste Received

The waste received at the facility from the 1<sup>st</sup> January 2012 to the 31<sup>st</sup> December 2012 was 237,469.04 tonnes. From the pie chart (Fig 1) it is evident that 3<sup>rd</sup> party deliveries are the largest source of Panda's waste accepted into Ballymount with Panda's domestic waste 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 D 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 invested in a C&D processing line in 2005 in the Beuparc facility (W0140-03). A shredder, trommel, magnet, wind shifter and a picking line were purchased so as to divert as much C&D waste away from landfill as possible to reach the "Changing Our Ways 1998" target of diverting 85% away from Landfill by 2013. To date the processing of C&D Waste has been extremely successful. Panda are using the rubble segregated at the facility as a raw material in the use of



landfill road construction and as back fill on construction sites. The timber that is segregated in the shed is then shredded and recycled.

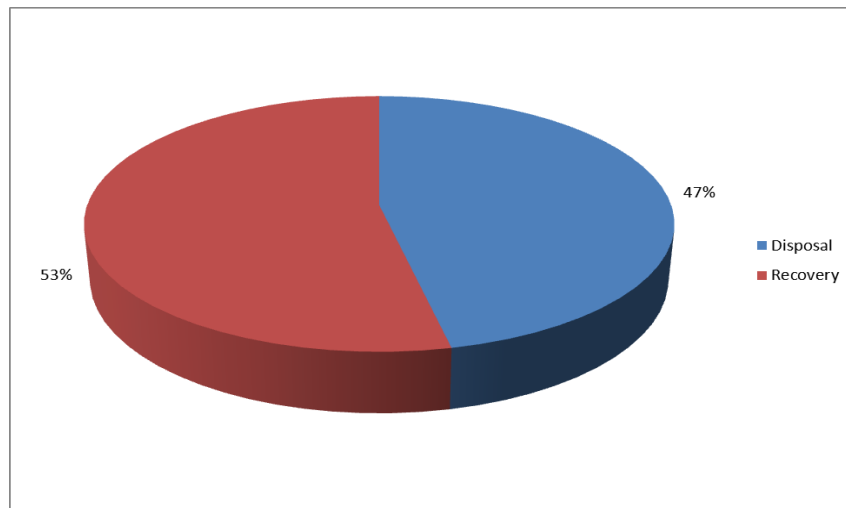
Panda are also in the process of finalising their RDF plant. This plant will recover the vast majority of Mixed Municipal Waste handled by Panda. Panda are currently reviewing their Waste Licence for this RDF facility (W0140-03). Other materials recovered from this facility are ferrous metals, wood, and plasterboard waste. The residuals waste is currently sent to landfill for disposal. 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.

Table 1 and Fig. 2 details the recovery rates of waste leaving Panda’s facility.

**Table 1:** Outgoing destination and recovery rate.

Destination	Tonnage
Disposal	110,521.63
Recovery	126,623.11

**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 2.** Surface water monitoring 2012

Parameter	Units	05/01/12	01/02/12	05/03/12	05/04/12	01/05/12	07/06/12
BOD	mg/L	Ns	Ns	Ns	Ns	90	Ns
COD	mg/L	Ns	Ns	Ns	Ns	185	Ns
Electrical Conductivity	mS/cm	Ns	Ns	Ns	Ns	0.124	Ns
Oils, Fats & Grease	mg/L	Ns	Ns	Ns	Ns	0	Ns
pH	pH units	Ns	Ns	Ns	Ns	7.36	Ns
Suspended Solids	mg/L	Ns	Ns	Ns	Ns	164	Ns

Parameter	Units	July	August	20/9/12	October	28/11/12	20/12/12
BOD	mg/L	Ns	Ns	0	Ns	0	0
COD	mg/L	Ns	Ns	12	Ns	8	36
Electrical Conductivity	mS/cm	Ns	Ns	0.26	Ns	0.11	0.5
Oils, Fats & Grease	mg/L	Ns	Ns	0	Ns	0	0
pH	pH units	Ns	Ns	7.6	Ns	7.4	7.5
Suspended Solids	mg/L	Ns	Ns	5	Ns	14	33

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

Results were exceeded in May and December. At the time of monitoring, there had not been any incidents (spill or accidental release) which could be identified as the source. An incident report form was submitted to the Agency in relation to these exceedances.

#### 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). Results were within licenced ELV's.

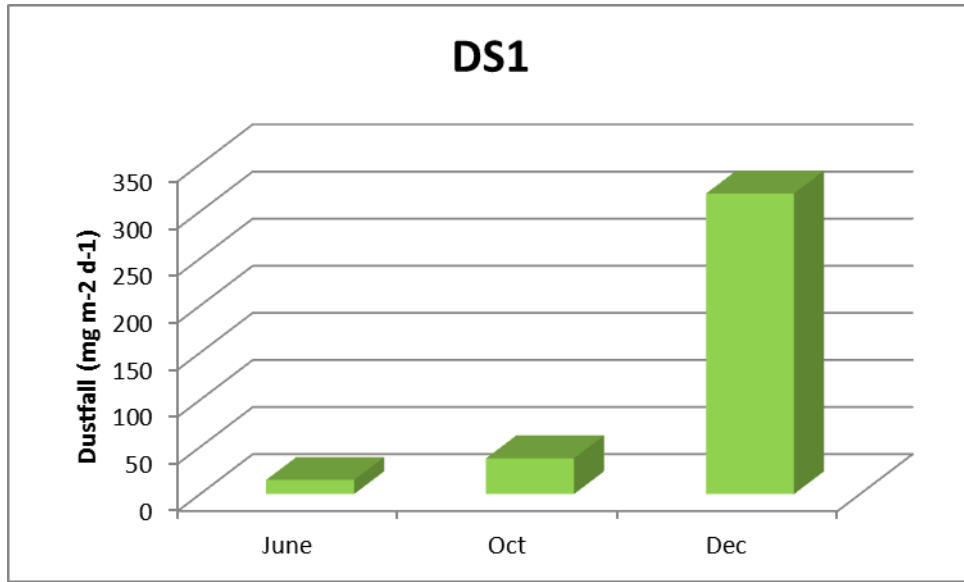
**Table 3.** Foul water monitoring 2012

Parameter	Units	05/01/12	05/03/12	01/05/12	20/09/12	26/11/12	20/12/12
BOD	mg/L	83	137	970	215	150	370
COD	mg/L	216	303	1545	848	709	630
Oils, Fats & Grease	mg/L	1.77	7.89	0	0	62	18
pH	pH units	7.47	7.89	6.4	8.6	7	7
Surfactants	mg/L	0	2.6	2.9	0.56	3.6	0.18
Suspended Solids	mg/L	76	69	906	532	No result	414

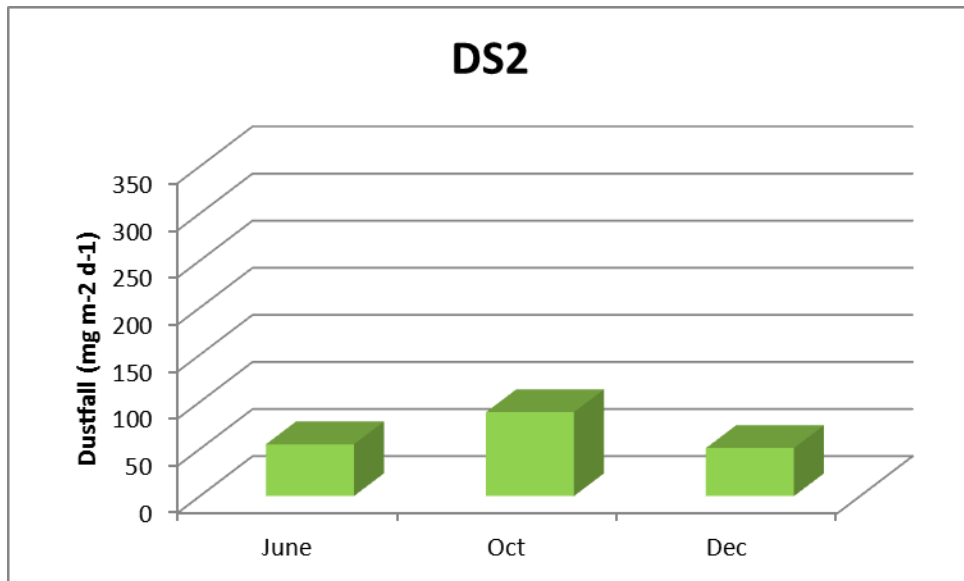
#### 2.4.3 Dust Emissions

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 2012.

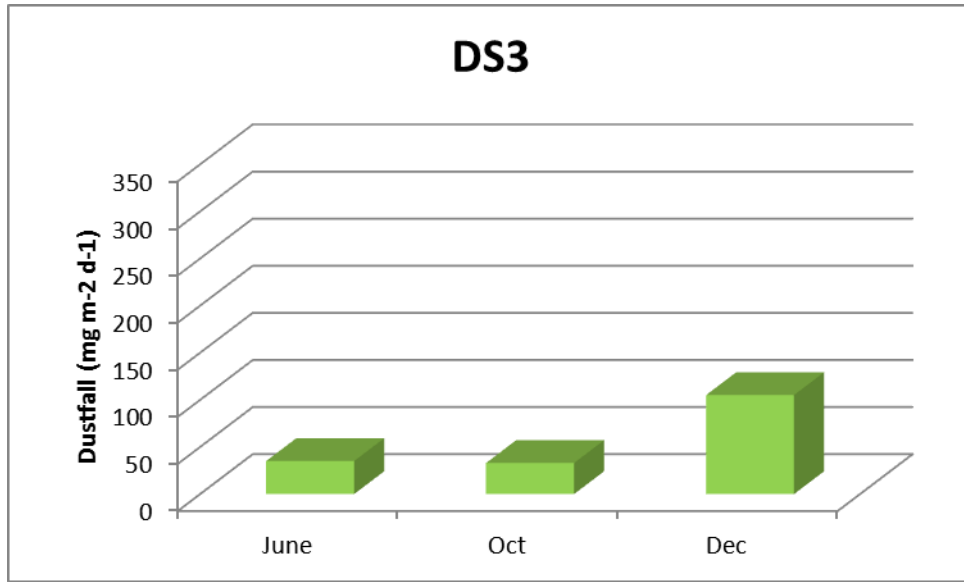
**Fig. 3:** Dust emission results for DS1 (AD1)



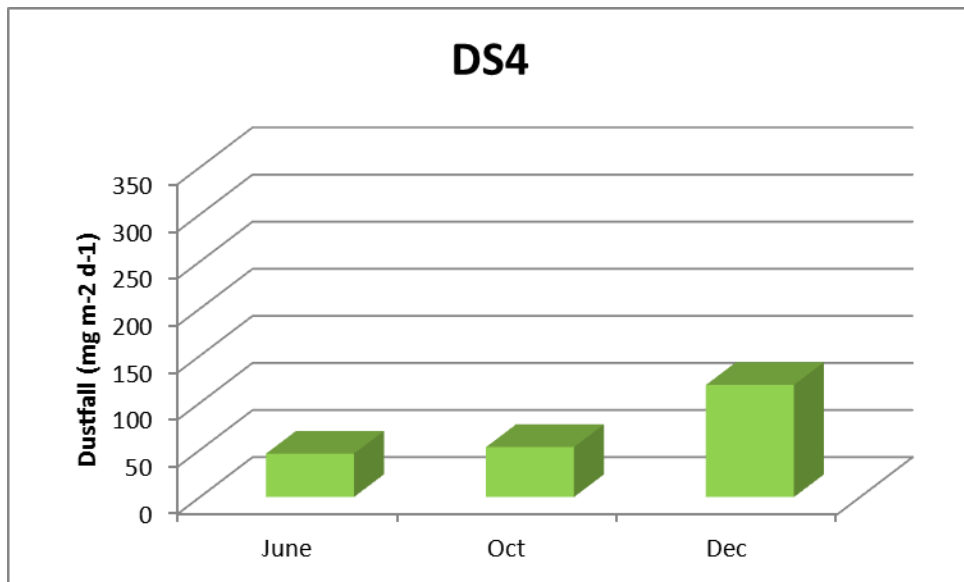
**Fig. 4:** Dust emission results for DS2 (AD2)



**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<sup>-2</sup> d<sup>-1</sup>. DS1 to DS4 are well 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 details results of noise monitoring conducted on the 21<sup>st</sup> May 2012.

**Table 3.** Noise emissions 2012

Survey date: 21.05.12 daytime & late evening    GES: Greenstar Environmental Services    UBR: Upper Ballymount Road						
Station	Time	L <sub>Aeq</sub> 30 min dB	L <sub>A</sub> F10 30 min dB	L <sub>A</sub> F90 30 min dB	Specific level* dB	Noise audible
B1	1049-1119	70	68	55	70	Site emissions continuously dominant from loader in building and on yards, and almost continuous truck movements. No other noise audible.
	2224-2254	45	47	42	0	No site emissions. Intermittent UBR traffic dominant when present. Distant traffic in several directions continuously audible at low level. Aircraft, distant house/car alarms and distant dog barking audible.
B2	1044-1114	69	70	60	69	Site emissions continuously dominant from loader in building and on yards, and almost continuous truck movements. No other noise audible.
	2300-2330	45	47	43	0	No site emissions. Intermittent UBR traffic dominant when present. Distant traffic in several directions continuously audible at low level. Aircraft, distant house/car alarms and distant dog barking audible. Emissions audible at low level occasionally from commercial facility 200 m NE.
B3	1120-1150	64	67	57	<57	No emissions from facility apart from intermittent truck movements through gate and weighbridge, decreasing as site gradually quietens. Continuous UBR traffic continuously dominant. No other noise audible.
	2229-2259	53	57	44	0	No site emissions. Intermittent UBR traffic dominant when present. Distant traffic in several directions continuously audible at low level. No other noise apart from aircraft, distant house/car alarms and distant dog barking.
NS1	1127-1157	72	75	62	<<62	No facility emissions audible apart from intermittent truck movements through entrance. UBR traffic continuously intrusive. Occasional vehicle movements in adjacent commercial yard audible during UBR lulls.
	2341-0011	63	64	42	<42	Compactor truck arrived onsite at 2350. Idling at gate for one minute pending access. Audible at low level idling and manoeuvring within site until 0000. Different truck departed site at 1205, idling again at gate for 2 min. UBR traffic decreasing in volume, although still intermittent. Dominant when present. Distant traffic continuously audible in background. Aircraft and distant dog barking.

\*Specific level: Sound pressure level contribution considered attributable to facility, determined using real time assessment, field notes, time history profiles, statistical analysis, frequency spectra, near field correction if applicable, and other parameters.

*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 in 2012. The results show that the bund has maintained its integrity. The pipeline integrity test is scheduled for Q3 of 2013.

#### *2.4.6 Summary of resource and energy consumption*

**Table 4:** Summary of Energy Consumption from January 2012 to December 2012.

Resource	
Gas Oil	31,411 Litres
Electricity	206.213 MWhr <sup>note 1</sup>

Note 1 Estimate from January – April. Bills were not paid by Panda during this period.

#### *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:** Waste processing equipment

1 x loading shovel

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. Repair working on external of building
2. Install eco drains on doorways.
3. Divert timber storage areas drainage to foul.

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 E.



#### 4. Environmental objectives and targets – 2013.

No	Objective & Target	Method of Achievement	Responsibility			2013 Programme
1	<b>Assess the Effectiveness of Nuisance Control Procedures</b>	Continually review and assess all nuisance control procedures to ensure minimal impact on surrounding area	Environmental Manager			July '13
		Ensure yards are cleaned at the end of each working day	Operatives			Continuous
2	<b>Prevent Water Pollution from Run-Off</b>	Ensure all gullies and drains are maintained and regularly cleaned	Facility Manager			Continuous
3	<b>Assess &amp; Review Resource &amp; Energy Consumption at the site</b>	Carry out an energy audit on the site	Environmental Manager			2014
4	<b>Maintain and Develop the Environmental Management System</b>	Maintain EMS Documentation on site	Environmental Manager			Continuous
		Update procedures to reflect operational and control changes				
5	<b>Assess Waste Acceptance Procedures so as to minimise volume of erratic's</b>	Communicate with customers about the items that are not acceptable in the in-coming wastes	Call Centre/Sales Reps			Continuous
6	<b>Environmental Monitoring</b>	Implement the Environmental Monitoring Programme specified in the Waste Licence	Environmental Manager			Continuous
		Investigate any accidents of emission limit values	Environmental Manager			Continuous
7	<b>Ensure and implement a training programme</b>	Identify staff training requirements and provide relevant training	Environmental Dept			July '13

	<b>Objective &amp; Target</b>	<b>Method of Achievement</b>	<b>Responsibility</b>	<b>Timescale</b>		<b>2013 programme</b>
8	<b>To control any emergencies that may arise at the facility</b>	Review and implement the Emergency Response Procedure	Environmental Manager			July '13
9	<b>Prepare a Standard Operating Procedures Manual</b>	Prepare a comprehensive SOP manual relevant to site operations	Environmental Manager			May '13
10	<b>Ensure lighting in waste handling buildings provide sufficient lighting so as to assess incoming waste</b>	Clean all light bulbs and covers in waste handling buildings	Facility Manager			June '13
12	<b>Office Recycling</b>	Implement office recycling	Facility Manager			May '13
13	<b>Pipe Integrity Test</b>	Carry out a Pipe Integrity Test	Environmental Manager			Q3 '13

### 3.1 Summary of reported incidents and complaints

#### 3.1.1 Reported Incidents Summary

One incident occurred in 2012 whereby 11 waste collection vehicles were set alight on the 21<sup>st</sup> June 2012. The fire was reported to all regulatory bodies as per the licence. The fire was brought under control after about 45 minutes following the arrival of the fire brigade at 23.35pm.

#### 3.1.2 Complaints:

There were a total of 7 complaints made to the Agency and/or the facility during this licence in 2012. Complaints illustrated in Fig 7.

**Fig. 7:** 2012 complaints



### 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. A road sweeper visits the site each day of operation. 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 Environmental Management System has been developed and includes the following Standard Operating Procedure;

- Document Control
- Targets and Objectives
- Environmental Complaints
- Corrective Action
- Daily Site Inspections
- Nuisance Management
- Emergency Response
- Unacceptable Waste
- Communication Programme
- Training and Awareness
- Storage of Fuels and Oil
- Designation of waste to suitable outlets
- Waste handling and acceptance
- Spills on site
- Rejected loads at destinations
- Metal Recovery from mattresses
- Use of Recycled woodchip and rubble
- 3<sup>rd</sup> Party customer profiling
- Accident Prevention Policy

A Daily Site Inspection Sheet has been developed to record any potential nuisance on or points to note including a map of the facility for reference as to the location of the nuisance.

## **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; 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 (WCP-DC-09-1188-01),
- 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. This proves extremely beneficial during inclement weather conditions informing customers of difficulties with collecting waste on specified days due to dangerous road conditions.

Over the Christmas period 2012 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 run or route, this would also be advertised in the local media.

In March 2009, Panda commenced SMS messaging to domestic customers regarding their collections. This was beneficial especially periods of inclement weather conditions; this enables Panda to contact customers to inform them that collection days may have to be changed to alternative days, from this Panda received positive feedback. 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 monthly basis.

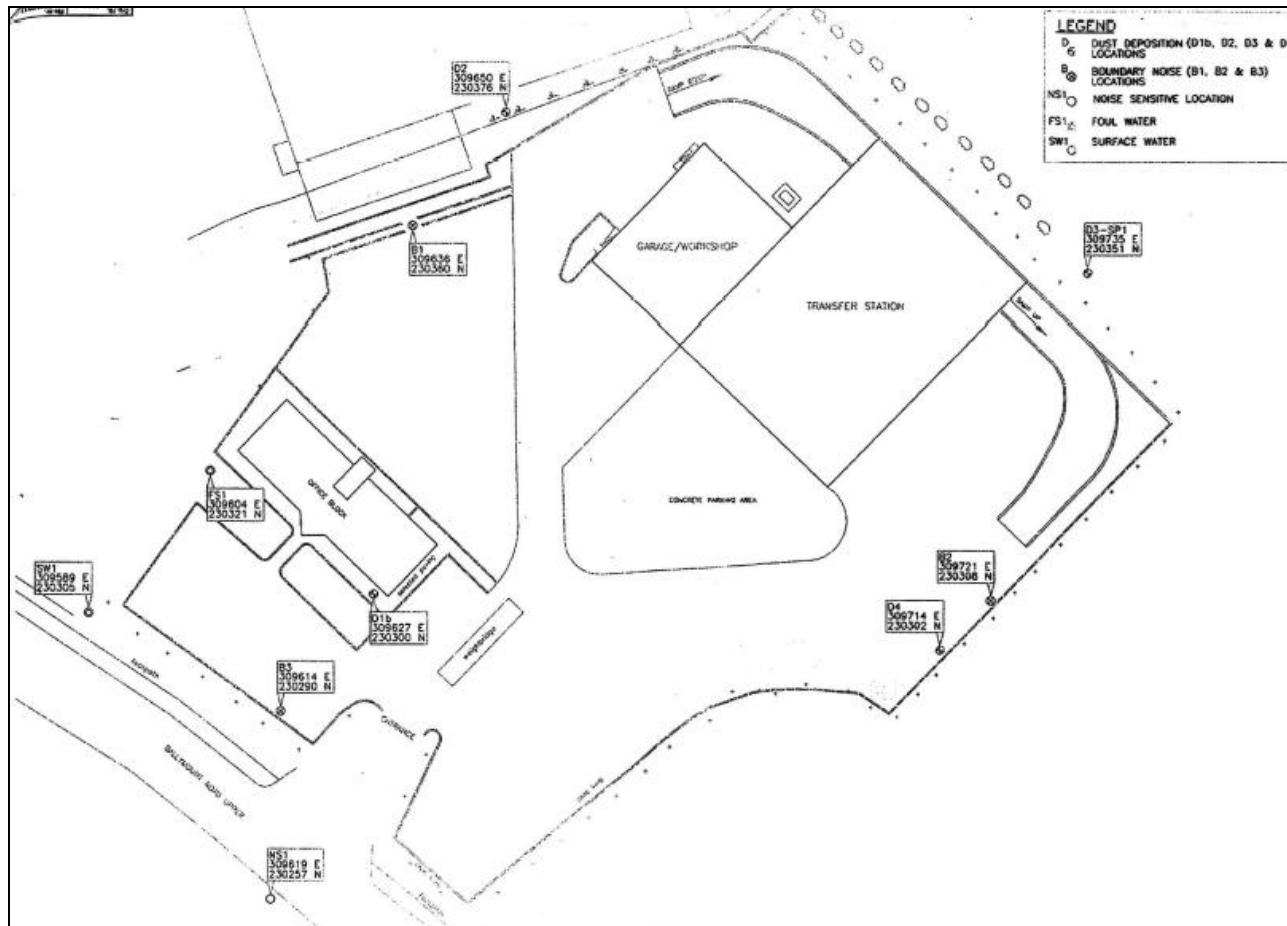
Advertisements are taken out regularly in the local newspapers informing customers of the services that Panda offer. There is also a large advertisement in the golden pages, which is available to the general public. Regular tours of the facility are given to schools and to members of the public upon 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 2012.

# Appendix A

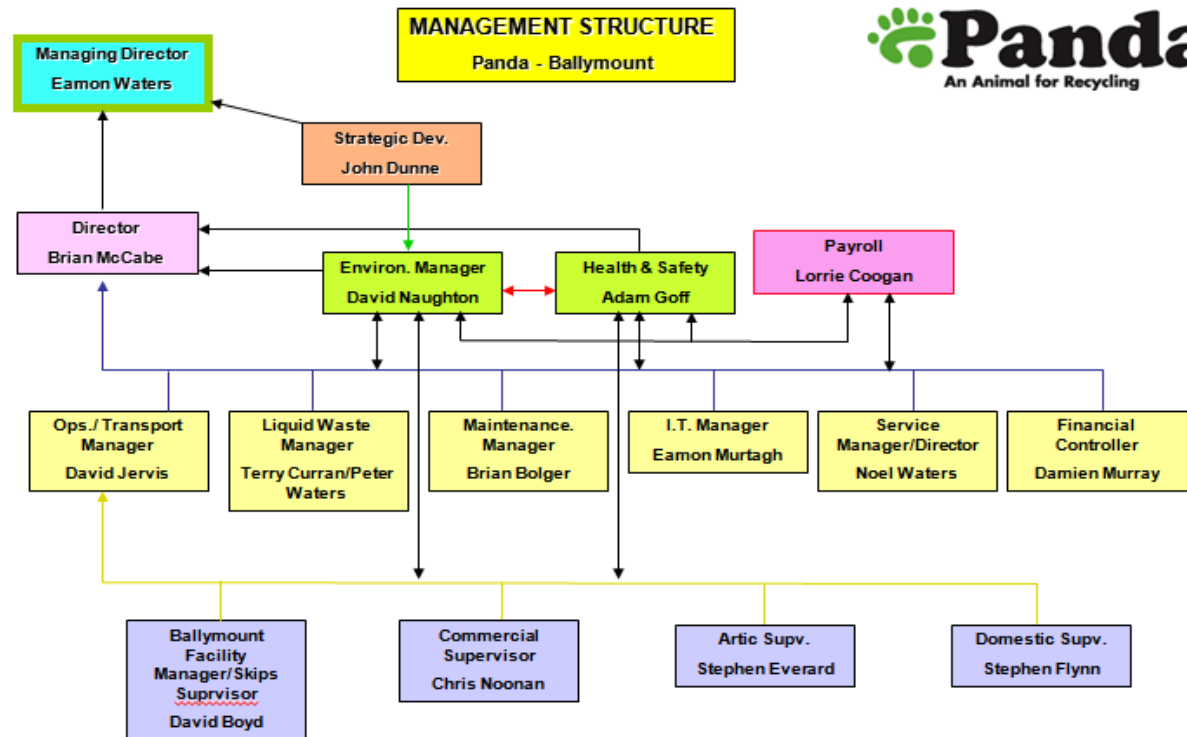
## Site Layout





# Appendix B

## Organisational Structure



# Appendix C

## Financial Statement



Fagan Lynch Donnellan  
Chartered Accountants & Registered Auditors

Our Ref: VL/NMcK

6<sup>th</sup> March 2013

Environmental Protection Agency,  
McCumiskey House,  
Richview,  
Clonskeagh Road,  
Dublin 14.

**Re: Irish Packaging Recycling Limited**

Dear Sir,

We act as Auditors and Taxation Agents for the above and have acted in this capacity for the past 6 years.

We wish to confirm as follows:

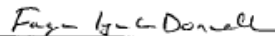
1. Statutory Accounts have been filed for all years up to 31.12.2011 with the Companies Office.

Accounts and Tax Returns have also been filed with Inspector of Taxes for all years to 31<sup>st</sup> December 2011.

2. The Company trades profitably and is on a very sound financial footing.

If you have any queries, please do not hesitate to contact us.

Yours faithfully,

  
FAGAN LYNCH DONNELLAN

Newbridge House, Athlumney, Navan, Co. Meath  
Tel: (046) 9033700 Fax: (046) 9029341 e-mail: info@fld.ie www.fld.ie

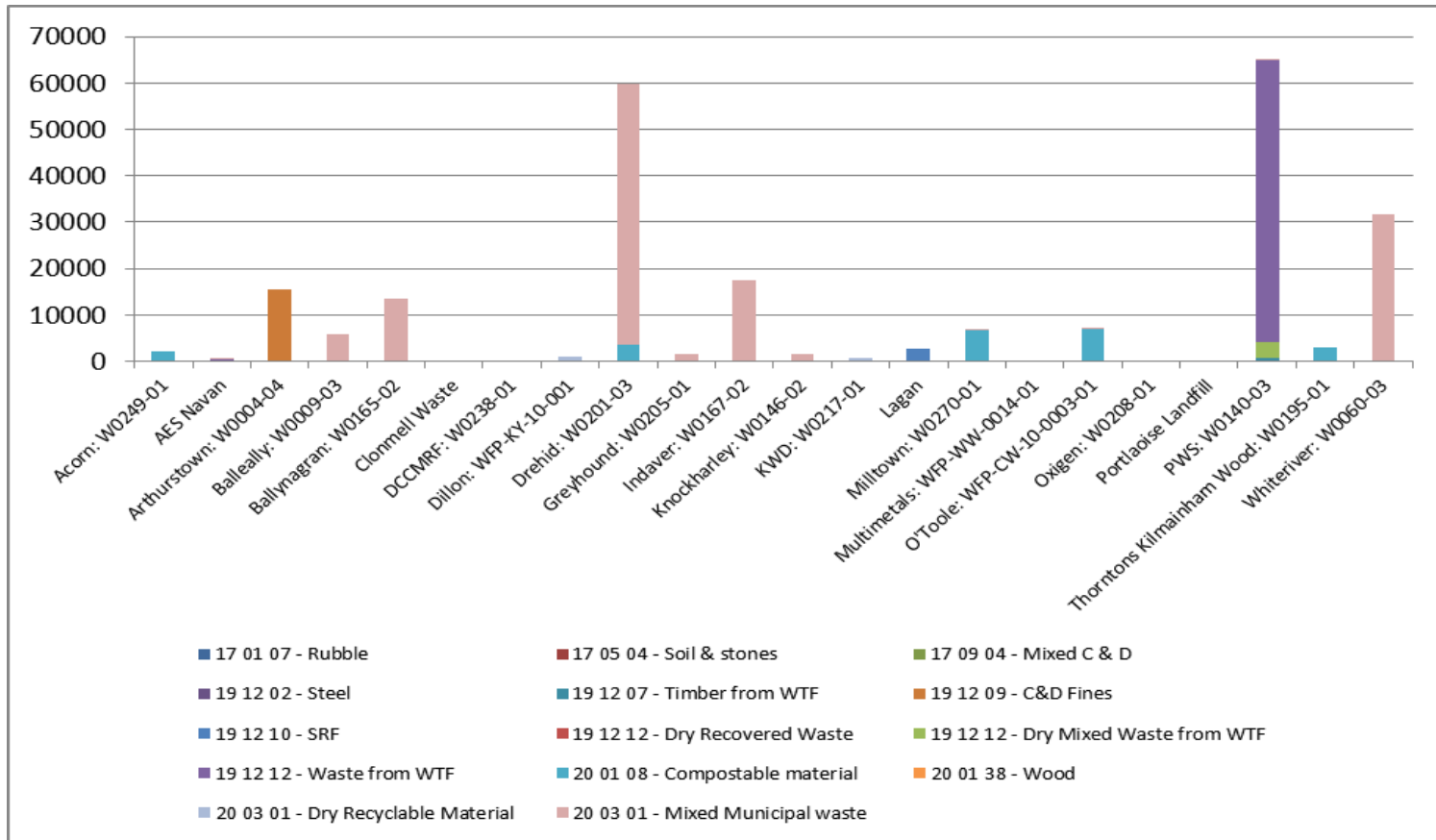
John Fagan FCA Vincent Lynch FCA Mark McCartney FCCA

Registered to carry on audit work and authorised to carry on investment business by the Institute of Chartered Accountants in Ireland (ICAI).  
Chartered Accountants Ireland is the operating name of ICAI.



# Appendix D


## Outgoing by Destination



# Appendix E

## PRTR Emissions

IPPRTR:W00331 Facility Name: Nurendale Ltd trading as Panda Waste Services Ltd  
Filename: PRTRW0033\_2012.xlsx Release Year: 2012



Version 5.1.15

[Guidance to completing the PRTR workbook](#)  
**AER Returns Workbook**

<b>REFERENCE YEAR</b>	2012
<b>1. FACILITY IDENTIFICATION</b>	
Parent Company Name	Nurendale Limited trading as Panda Waste Services
Facility Name	Nurendale Ltd trading as Panda Waste Services Ltd
PRTR Identification Number	W/0033
Licence Number	W0033-02
Waste or IPPC Classes of Activity	
<b>M - class name</b>	
3.12	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.11	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.13	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.
4.13	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.
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
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
<b>AER Returns Contact Name</b>	David Naughton
<b>AER Returns Contact Email Address</b>	david.naughton@panda.ie
<b>AER Returns Contact Position</b>	Environmental Manager
<b>AER Returns Contact Telephone Number</b>	1850 65 65 65
<b>AER Returns Contact Mobile Phone Number</b>	086 6045905
<b>AER Returns Contact Fax Number</b>	046 3024189
<b>Production Volume</b>	0.0
<b>Production Volume Units</b>	
<b>Number of Installations</b>	0
<b>Number of Operating Hours in Year</b>	0
<b>Number of Employees</b>	120
<b>User Feedback/Comments</b>	
<b>Web Address</b>	
<b>2. PRTR CLASS ACTIVITIES</b>	
<b>Activity Number</b>	<b>Activity Name</b>
5(c)	Installations for the disposal of non-hazardous waste
5(c)	Installations for the disposal of non-hazardous waste
50.1	General
<b>3. SOLVENTS REGULATIONS (S.I. No. 543 of 2002)</b>	
Is it applicable?	No
Have you been granted an exemption?	No
If applicable which activity class applies (as per Schedule 2 of the regulations)?	
Is the reduction scheme compliance route being used?	
<b>4. WASTE IMPORTED/ACCEPTED ON</b> <a href="#">Guidance on waste imported/accepted onto site.</a>	
Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities)?	
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: W88331 Facility Name: Nurendale Ltd trading as Panda Waste Services Ltd File Name: PRTR:W8833\_2012.xlsx Release Year: 2012 25/03/2013 05:52

**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

**RELEASES TO AIR** Please enter all quantities in this section in KGs

No. Annex II	POLLUTANT Name	METHOD			ADD EMISSION POINT				QUANTITY		
		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 AIR** Please enter all quantities in this section in KGs

No. Annex II	POLLUTANT Name	METHOD			ADD EMISSION POINT				QUANTITY		
		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 AIR** Please enter all quantities in this section in KGs

Pollutant No.	POLLUTANT Name	METHOD			ADD EMISSION POINT				QUANTITY						
		M/C/E	Method Code	Designation or Description	DS1	DS2	DS3	DS4	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year				
219		M	OTH	30 Day comparative sampling	Emission Point 1	Emission Point 2	Emission Point 3	Emission Point 4	0.05	0.02	0.02	0.03	0.12	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 Reporting on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (LFG) stored or utilized on their facilities by completing the figures for total methane generated. Operators should only report their Net methane (CH<sub>4</sub>) emission in the environment under T (Total) KG/yr for Section A; Sector specific PRTR pollutants above. Please complete the table below:

**Landfill:** Nurendale Ltd trading as Panda Waste Services Ltd

Please enter summary data on the quantities of methane stored and / or utilized

T (Total) kg/Year	Method Used			Facility Total Capacity m3 per
	M/C/E	Method Code	Designation or Description	
Total estimated methane generation (as per the model)	0.0			N/A
Methane flared	0.0			0.0 (Total Flaring Capacity)
Methane utilized in engines	0.0			0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	0.0			N/A

**4.2 RELEASES TO WATERS** [Link to previous years emissions data](#)

PRTR: W88331 Facility Name: Nurendale Ltd trading as Panda Waste Services Ltd File Name: PRTR:W8833\_2012.xlsx Release Year: 2012 25/03/2013 05:52

**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

**RELEASES TO WATERS** Please enter all quantities in this section in KGs

No. Annex II	POLLUTANT Name	METHOD			ADD EMISSION POINT				QUANTITY		
		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

No. Annex II	POLLUTANT Name	METHOD			ADD EMISSION POINT				QUANTITY		
		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 No.	POLLUTANT Name	METHOD			ADD EMISSION POINT				QUANTITY		
		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

4.3 RELEASES TO WASTEWATER OR SEWER		<a href="#">Link to previous years emissions data</a>		IPRT08:W00391 Facility Name: Haredale Ltd trading as Panda Waste Services Ltd   Filename: PRTRW00391   Return Year: 2012		25/03/2013 09:52		
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	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental)	F (Fugitive)
ADD NEW ROW   DELETE ROW*		* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button						
					0.0	0.0	0.0	0.0
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	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental)	F (Fugitive)
303	BOD	M	PER	Calculated based on annual flow rate. Analysis is ISO accredited	0.76	0.76	0.0	0.0
306	COD	M	PER	Calculated based on annual flow rate. Analysis is ISO accredited	1.67	1.67	0.0	0.0
240	Suspended Solids	M	PER	Calculated based on annual flow rate. Analysis is ISO accredited	0.78	0.78	0.0	0.0
314	Fats, Oils and Greases	M	PER	Calculated based on annual flow rate. Analysis is ISO accredited	0.04	0.04	0.0	0.0
308	Detergents (as MBAS)	M	PER	Calculated based on annual flow rate. Analysis is ISO accredited	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						

4.4 RELEASES TO LAND		<a href="#">Link to previous years emissions data</a>		IPRT08:W00391 Facility Name: Haredale Ltd trading as Panda Waste Services Ltd   Filename: PRTRW00391_2012.xls   Return Year: 2012		25/03/2013 09:52		
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 Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	
ADD NEW ROW   DELETE ROW*		* Select a row by double-clicking on the Pollutant Name (Column B) then click the delete button						
					0.0	0.0	0.0	
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 Code	Designation or Description	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						

5. ONSITE TREATMENT & OFFSITE TRANSPORT

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	Name of Recipient Facility No of Recipient Facility Name of Recipient Facility Licence/Permit No of Recipient/Disposer	Address of Recipient Facility Name of Recipient Facility Address of Recipient/Disposer
						M/C/E	Method Used			
Within the Country	13 12 02	No	30.44	ferrous metal	R4	M	weighed	Offsite in Ireland	Multi Metals,ESS/15/8/12	Blessington,Co. Wicklow,.,Ireland
Within the Country	13 12 07	No	632.96	wood other than that mentioned in 13 12 06	R13	M	weighed	Offsite in Ireland	Panda Besuparc,W0140-03	Besuparc Business Park,Navan,Co. Meath,.,Ireland
Within the Country	20 01 08	No	2243.96	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	6691.08	biodegradable kitchen and canteen waste	R3	M	weighed	Offsite in Ireland	Milltown Composting ,W0270-01	Milltownmore ,Fethard ,Co Tipperary ,.,ireland
Within the Country	20 01 08	No	7060.08	biodegradable kitchen and canteen waste	R3	M	weighed	Offsite in Ireland	O'Toole Composting ,WFP-CW-10-0003-01	Ballintrane , Fenagh ,Co Carlow ,.,ireland
Within the Country	20 01 08	No	3134.27	biodegradable kitchen and canteen waste	R3	M	weighed	Offsite in Ireland	Thornton Waste Disposal , W0195-01	Kilmsinhamwood ,Kells ,Co Meath,.,ireland
Within the Country	20 03 01	No	887.03	Dry Recyclables	R12	M	weighed	Offsite in Ireland	Killarney Waste Disposal ,W217-01	Killarney ,Co Kerry ,.,ireland
Within the Country	20 03 01	No	1453.24	mixed municipal waste	R13	M	weighed	Offsite in Ireland	Greyhound Recycling & Recovery,W0205-01	Industrial Estate,Clonsalkin ,Dublin 22,Ireland
Within the Country	20 03 01	No	921.93	Dry Recyclables	R12	M	weighed	Offsite in Ireland	Dillon Recycling,WFP-KY-10-001	Tralee,Kerry,.,ireland
Within the Country	20 03 01	No	5854.54	mixed municipal waste	D5	M	weighed	Offsite in Ireland	Fingall Co Co , W0003-03	Balleally Landfill , Lusk ,Co Dublin,.,ireland
Within the Country	20 03 01	No	56133.88	mixed municipal waste	D5	M	weighed	Offsite in Ireland	Bord na Mona ,W0201-03	Drehid Landfill , Carbury ,Co Kildare ,.,ireland
Within the Country	20 03 01	No	13471.48	mixed municipal waste	D5	M	weighed	Offsite in Ireland	Greenstar Holdings Limited,W0165-02	Ballynagran,Coolbeg and Kicandra,Co. Wicklow,.,Ireland
Within the Country	20 03 01	No	1636.7	mixed municipal waste	D5	M	weighed	Offsite in Ireland	Greenstar Holdings Limited,W0146-01	Knockharley,Kentstown,Co . Meath,.,Ireland
Within the Country	20 03 01	No	17570.45	mixed municipal waste	D10	M	weighed	Offsite in Ireland	Indaver IWMF ,W0167-02	Carlanstown , Duleek ,Co Meath ,.,ireland
Within the Country	20 03 01	No	31782.65	mixed municipal waste	D5	M	weighed	Offsite in Ireland	Louth Co Co ,W0060-02	Whiteriver Landfill ,Dunleer ,Co Louth
Within the Country	13 12 03	No	15635.74	minerals (for example sand, stones)	R10	M	weighed	Offsite in Ireland	Arthurstown	Kill,Co. Kildare,.,Ireland
Within the Country	20 01 08	No	3543.54	biodegradable kitchen and canteen waste other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 13 12 11	R3	M	weighed	Offsite in Ireland	Bord na Mona ,W0201-03	Drehid Landfill , Carbury ,Co Kildare ,.,ireland
Within the Country	13 12 12	No	64223.53	12 11	R12	M	weighed	Offsite in Ireland	Panda Besuparc,W0140-03	Besuparc Business Park,Navan,Co. Meath,.,Ireland
Within the Country	20 03 01	No	170.98	Dry Recyclables	R12	M	weighed	Offsite in Ireland	Dublin City Council MRF,W0238-02	Merrywell Business Park,Ballymount,Dublin 22,.,Ireland
Within the Country	20 03 01	No	77.84	mixed municipal waste mixed construction and demolition wastes other than those mentioned in 17	R13	M	weighed	Offsite in Ireland	Panda Besuparc,W0140-03	Besuparc Business Park,Navan,Co. Meath,.,Ireland
								Offsite in Ireland	Panda Besuparc,W0140-	Besuparc Business Park,Navan,Co.

Within the Country	17 03 04	No	37.72	03 01, 17 03 02 and 17 03 03	R12	M	Weighted	Offsite in Ireland	03	Meath,,Ireland	
Within the Country	20 03 01	No	195.32	mixed municipal waste	R12	M	Weighted	Offsite in Ireland	Midland Waste,w0131	Navan,Co. Meath,,Ireland	
Within the Country	20 03 01	No	25.02	mixed municipal waste	R12	M	Weighted	Offsite in Ireland	Miltown Composting ,w0270-01	Milltownmore ,Fethard ,Co Tipperary ,,Ireland	
Within the Country	20 03 01	No	248.86	mixed municipal waste	R12	M	Weighted	Offsite in Ireland	O'Toole Composting ,wFP-CW-10-0003-01	Ballintrae , Fenagh ,Co Carlow ,,Ireland	
Within the Country	13 12 12	No	19.14	RDF mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17	R12	M	Weighted	Offsite in Ireland	Greyhound Recycling & Recovery,w0205-01	Estace,Clondalkin ,Dublin 22,Ireland	
Within the Country	17 01 07	No	14.26	01 06 soil and stones other than those mentioned in 17 05 03	R12	M	Weighted	Offsite in Ireland	Panda Besuparc,w0140-03	Beauparc Business Park,Navan,Co. Meath,,Ireland	
Within the Country	17 05 04	No	20.2	soil and stones other than those mentioned in 17 05 03	R10	M	Weighted	Offsite in Ireland	Arthurstown Landfill,w0004	Kill,Co. Kildare,,Ireland	
Within the Country	17 05 04	No	30.66	soil and stones other than those mentioned in 17 05 03	R12	M	Weighted	Offsite in Ireland	Panda Besuparc,w0140-03	Beauparc Business Park,Navan,Co. Meath,,Ireland	
Within the Country	13 12 10	No	2752.66	combustible waste (refuse derived fuel)	R13	M	Weighted	Offsite in Ireland	Lagan Cement,P0487	Kinnegad,Co. Westmeath,,Ireland	
Within the Country	13 12 07	No	3.7	06 wood other than that mentioned in 13 12 11	R12	M	Weighted	Offsite in Ireland	Clonmel Waste Disposal,wFP-TS-11-0001-01	Lawlesstown,Clonmel,Co. Tipperary,,Ireland	
Within the Country	13 12 12	No	436.44	12 11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 13 12 11	R12	M	Weighted	Offsite in Ireland	Midland Waste,w0131	Navan,Co. Meath,,Ireland	
Within the Country	13 12 12	No	115.06	12 11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 13 12 11	R12	M	Weighted	Offsite in Ireland	Oxigen,w0208	Ballymount,Dublin 22,,Ireland	
Within the Country	20 01 38	No	3.22	37 wood other than that mentioned in 20 01 37	R12	M	Weighted	Offsite in Ireland	Panda Besuparc,w0140-03	Beauparc Business Park,Navan,Co. Meath,,Ireland	
ADD NEW ROW		DELETE ROW*		* Select a row by double-clicking the Description of Waste then click the delete button							