

 **Panda**
An Animal for Recycling

Site: Cappagh Road, Finglas, Dublin 11

Waste Licence Number W0261-01

Annual Environmental Report

01st January 2011 – 31st December 2011

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1.0 Introduction

Panda were granted the EPA Waste Licence W0261-01 on the 31st August 2010. This replaces the Waste Permit WPT 95 issued by Fingal County Council. Under this licence, Panda will be able to process initially 50,000 tonnes per annum under Stage 1 and 200,000 tonnes per annum (upon completion of necessary infrastructure). Appendix A illustrates the current site layout.

1.1 Company details

Licence No: W0261-01

Name: Nurendale Limited t/a Panda Waste Services

Address: Cappagh Road,
Finglas,
Dublin 11.

Telephone Number: 01 8298961 or 1850 65 65 65

Fax Number: 046 9024189

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. Kieran Connor is the facility Manager on site. There are 50 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 W0261-01, 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 and 2011. Panda also won the inaugural Meath Innovator of the year 2010 and Meath Overall Business of the year 2010.

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 used as a transfer facility. The facility accepts predominantly Mixed C&D waste from construction and demolition sites, household renovations/clearances and C&I Dry mixed municipal Waste (Non black bag-putrescible waste) and source segregated cardboard, plastic and hangers. 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 Kobelco Grab and Loading Shovel, and stored in the building for onward movement. The remaining mixed C&D is then bulked up and sent onward to Panda’s headquarters for processing. Source segregated baled cardboard, baled plastic and boxed plastic hangers are also accepted for bulking up from Dunnes Stores collections nationwide.

Panda stored source segregated plasterboard waste for processing. This is stored in a designated section of the building so as to avoid contamination from the Mixed C&D waste stream.

There is a dual weighbridge for incoming and outgoing waste.

1.7 Water Usage:

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

Water usage on site consists of:

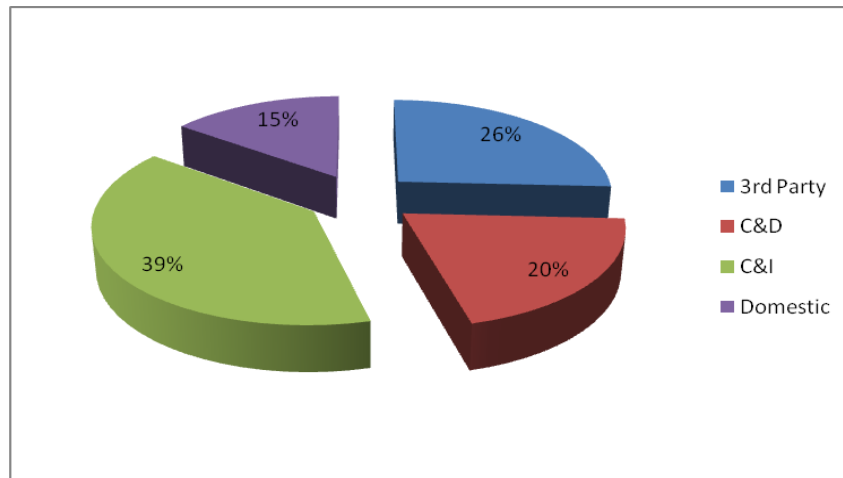
- In-house road sweeper (3 visits per week).
- Dust suppression sprayers in the shed and on the South-western external side of shed (as required)
- Hoses on site for dust suppression.
- Fire Fighting equipment.

2.0 Summary Information

2.1 Waste Received

The waste received at the facility from the 1st January 2011 to the 31st December 2011 was 59,648.11 tonnes. From the pie chart (Fig 1) it is evident that C&I waste is the largest source of Panda's waste acceptance with Mixed C&D, 3rd Party and domestic skips comprising the balance.

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

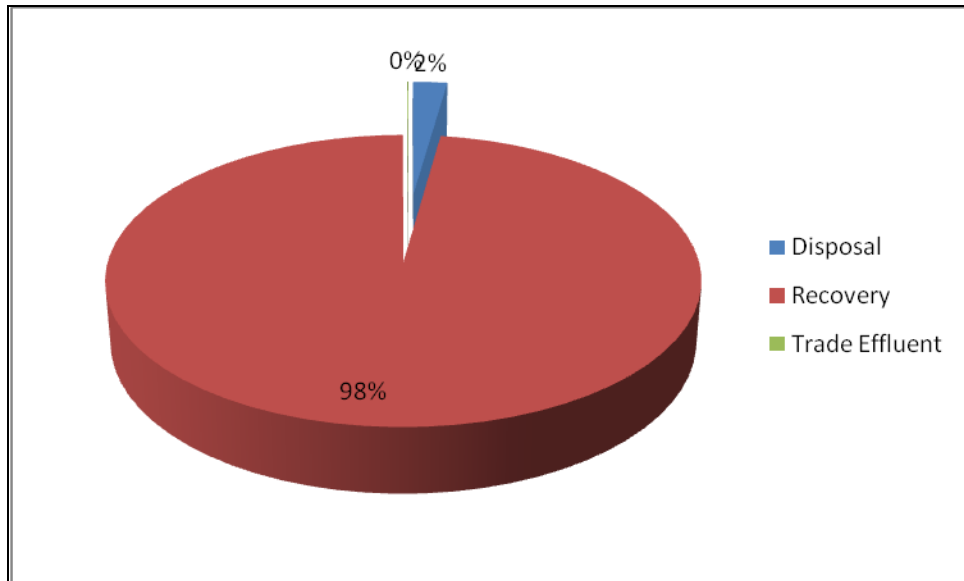
To contribute to the Landfill Directive, Panda invested in a C&D processing line in 2005. A shredder, trommel, magnet, wind shifter and a picking line were purchased so as to divert as much C&D waste away from landfill as possible to reach the “Changing Our Ways 1998” target of diverting 85% away from 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 including the residual waste from the Cappagh facility. 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	1311.85
Recovery	57318.55
Trade Effluent	37.67

Fig. 2: Outgoing destination recovery rate.



2.4 Summary report on emissions and interpretation of environmental monitoring

Under Schedule C of the licence W0261-01, Panda are required to monitor storm water emissions, BMW content of municipal waste dispatched to landfill (Frequency-as specified by the Agency), trade effluent, 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 storm water network, which ultimately discharges into a tributary of the Tolka River. The surface water monitoring point is located at the south-eastern corner of the facility at the co-ordinates X/E 310429 Y/N 240420 (SW1).

2.4.2 Dust Emissions

As per schedule B5 for dust deposition limits, there are currently two sampling locations (AD1 and AD2). Monitoring is required bi-annually on site. A dust suppression unit was

installed in the shed to ensure dust emissions from the tipping, sorting and reloading are kept to a minimum. Figs 3&4 illustrate dust recordings for 2011.

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

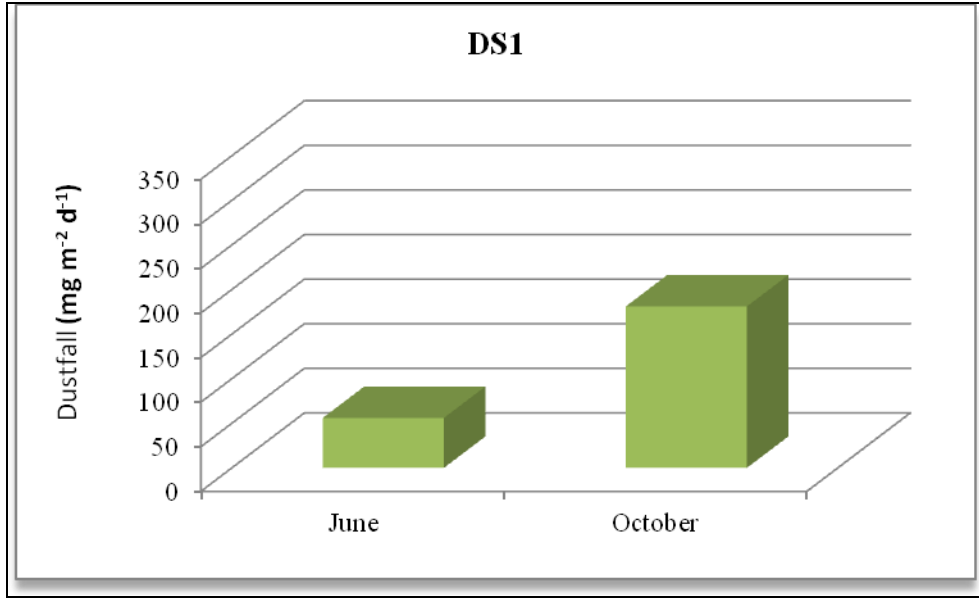
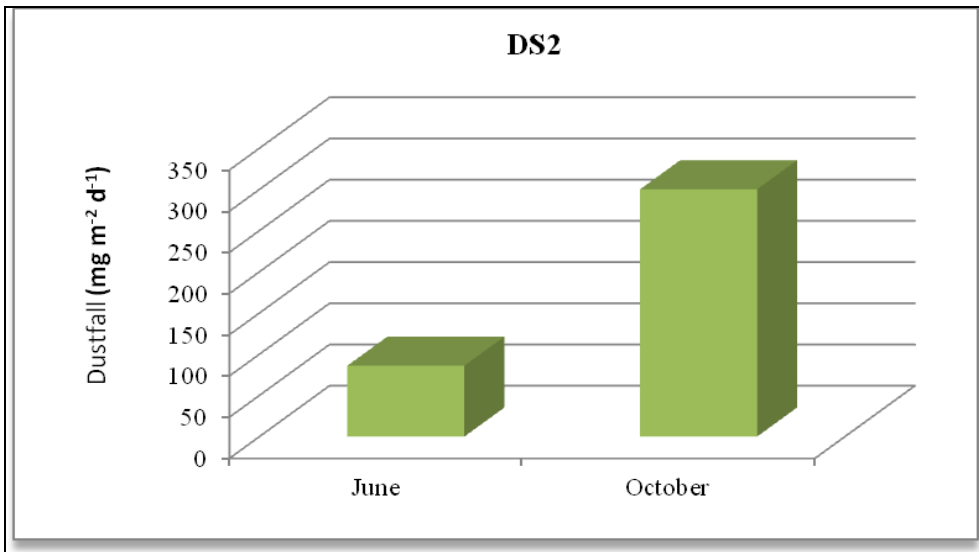


Fig. 4: Dust emission results for DS2 (AD2)



As per Schedule B.5, the dust deposition limit for the site is 350 mg m⁻² d⁻¹. Both AD1 and AD2 are well within licenced ELV's.

2.4.3 Noise Emissions

Noise emissions are monitored according to Schedule B.4 and the emission limit values (ELV) set out in Schedule C.5 of the licence. An independent competent consultant has been commissioned to conduct the noise sampling for the facility. Table 2 details results of noise monitoring conducted on the 20th July 2011.

Table 2. Noise emissions 2011

Location	Time	Leq	L10	L90	Comments
AN1	15.45	52.2	55.7	44.5	Main noise emission from works extraneous
AN2	15.30	50.0	52.1	45.7	Noise from aircraft at 55-67 dBA
ANSL1	16.30	55.1	59.2	43.7	Mainly road traffic noise and waste facility at less than 45dBA
ANSL2	16.45	55.4	59.6	41.8	Mainly road traffic noise and waste facility less than 45 dBA

2.4.4 Trade Effluent

As part of the monitoring programme Panda must test the trade effluent sent off site for disposal. Table 3 details results of trade effluent monitoring in 2011.

Table 3. Trade effluent monitoring 2011

Parameter	Units	Result 03/09/11	Result 25/11/11	Result 14/12/11	Result 29/12/11
Ammonia	mg/L as N	11.1	47.23	15.44	19.6
Arsenic	ug/L	5.371	<0.18	8.106	5.55
BOD	mg/L	255	240	240	410
Boron	ug/L	126.3	218.9	354.2	123.6
Cadmium	ug/L	0.409	<0.05	0.334	0.46
Chloride	mg/L	63.5	182.42	290.91	133.86
Chromium	ug/L	8.792	7.433	15.72	5.325
COD	mg/L	423	1140	1023	1612
Copper	ug/L	27.79	102.2	90.66	60.73

Lead	ug/L	62.16	51.72	98.11	19.18
Mercury	ug/L	0.124	0.102	0.44	<0.04
Mineral Oil	ug/L	282.14	1213.54	8.7	194.99
Nickel	ug/L	25.46	19.54	34.2	56.47
pH	pH units	6.9	7	6.6	6.7
Selenium	ug/L	<2.12	<2.12	<2.12	<2.12
Solids (Total Suspended)	mg/L	98	1013	358	2111
Sulphate	mg/L as SO ₄	1367.01	590.88	1026.58	112.03
Zinc	ug/L	149.7	578.4	383.5	151.8

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. A bund, pipeline and UST integrity testing is scheduled for Q2 of 2012.

2.4.6 Summary of resource and energy consumption

Table 4: Summary of Energy Consumption from January 2011 to December 2011.

Resource	
Gas Oil	41,612.50 Litres
Electricity	164016 units

2.4.6.3 Water

Water is obtained from the municipal waster 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 (List 1). List 2 details the waste processing equipment used on site.

List 1: Current site infrastructure

1. Offices
2. Dual Weighbridge.
3. One x Waste processing building
4. One x Dust suppression system
5. Ancillary ESB building
6. Canteen & toilets.
7. Water Attenuation Tank
8. Oil Interceptor
9. Fuel Depot
10. Fencing around the site

List 2: Waste processing equipment

Mobile

- 1 x Caterpillar Shovel
- 1 x Linde Forklift
- 1 x Moffit
- 1 x Kobelco Track
- 1 x Volvo Box Truck for hanger sorting

There is sufficient back up within the group if any of the plant listed breaks down.

2.5.2 Planned Infra-structure

Proposed infrastructure is outlined in List 3. It is anticipated that the concrete yards will be completed by the end of 2012 and the dry recycling building being completed in late 2012.

List 3: Proposed infrastructure:

1. Dry Recycling Building
2. Completion of concrete in yard.

2.6 Progress Report on Proposals Developed to Minimise Water Demand & Trade Effluent Discharge

To minimise the water demand on site, Panda are investigating collecting the rainwater from the roof and using this in the road sweeper to clean the yard.

2.7 PRTR Emission.

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

3.0 Environmental objectives and targets – 2012.

No	Objective & Target	Method of Achievement	Responsibility	Timescale	Complete in 2011
1	Assess the Effectiveness of Nuisance Control Procedures	Continually review and assess all nuisance control procedures to ensure minimal impact on surrounding area	Facility Manager	Ongoing	Continuous
		Ensure yards are cleaned at the end of each working day	Operatives	Ongoing	Continuous
2	Prevent Water Pollution from Run-Off	Complete a Firewater Risk Assessment	Facility Manager/ Env Dept	June 2012	Scheduled for April '12
		Ensure all gullies are maintained and regularly cleaned	Facility Manager/ Operatives	Ongoing	Continuous
		Ensure that levels in trade effluent tanks are maintained at an appropriate height	Facility Manager/Operatives	On-going	Continuous
3	Assess & Review Resource & Energy Consumption at the site	Carry out an energy audit on the site	Facility Manager	Jan' 2012	Jan 2012
4	Maintain and Develop the Environmental Management System	Maintain EMS Documentation on site	Facility Manager/ Env Dept	Continuous	Continuous
		Up date procedures to reflect operational and control changes	Facility Manager/ Env Dept	Continuous	Continuous
5	Assess Waste Acceptance Procedures so as to minimise volume of erratics	Communicate with customers about the items that are not acceptable in the in-coming wastes	Facility Manager/ Sales Reps	Continuous	Continuous
6	Environmental Monitoring	Implement the Environmental Monitoring Programme specified in the Waste Licence	Facility Manager	Continuous	Continuous
		Investigate any accidents of emission limit values	Facility Manager	Continuous	Continuous
7	Ensure and implement a training programme	Identify staff training requirements and provide relevant training	Facility Manager/ Env Dept	Continuous	Continuous
8	To control any emergencies that may arise at the facility	Establish and implement an Emergency Response Procedure	Facility Manager/ Env Dept	May 2011	Complete

9	Prepare a Standard Operating Procedures Manual	Update the SOP manual relevant to site operations	Facility Manager/ Env Dept	Continuous	Continuous
10	Ensure lighting in waste handling buildings provide sufficient lighting so as to assess incoming waste	Clean all light fittings in waste handling buildings	Environmental Manager/ Yard Supervisor	July 2012	
13	Office Recycling	Implement office recycling	Office Manager/ Environmental Department	Continuous	Continuous
		Continuation of training regarding office recycling	Office Manager/ Environmental Department	Continuous	Continuous

3.1 Summary of reported incidents and complaints

3.1.1 Reported Incidents Summary

Dated 13th July 2011

There was a non-compliance issued by the Agency following an inspection conducted by the Agency on the 4th August 2011 (EPA reference no. (W0261-01)11S101NH). A full non-compliance schedule was returned to the Agency on the 12th September 2011.

3.1.2 Complaints:

No incidents occurred during this licence in 2011.

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, Panda's in house roadsweeper visits the facility and sprays odour neutralising liquid mixed with water on all concreted yards.

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 a loading shovel, track and fork lift are operational on site.

3.2.3 Dust

A dust suppression system is installed in the shed and on the external (South-western side) of the building. A road sweeper visits the site at a minimum 3 times per week or more frequently if required. 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 designated 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 include the following Standard Operating Procedure;

- Corrective Action;
- Daily Site Inspections;
- Nuisance Management;
- Emergency Response;
- Unacceptable Waste;
- Communications Programme;
- Storage of Fuels and Oils;
- Training and Awareness;
- Environmental Complaints;

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 (W0140-03, 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 proved extremely beneficial during the poor weather experienced during December 2010 informing customers of difficulties with collecting waste on specified days due to dangerous road conditions.

Over the Christmas period 2011 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 during December 2010 in the inclement weather conditions; this enables Panda to contact customers to inform them that

collection days may have to changes to alternative day's, 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.

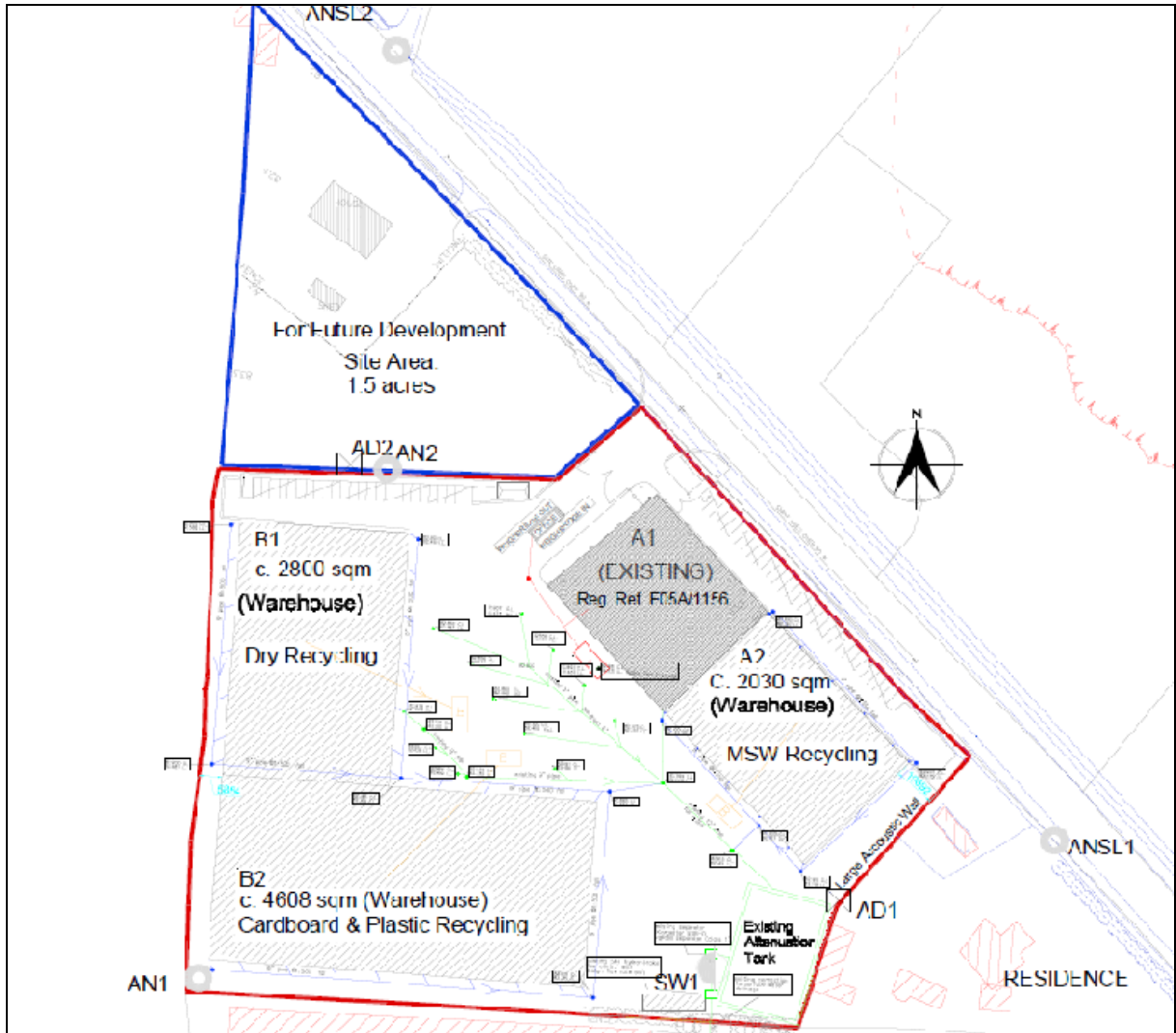
Advertisements are taken out regularly in the local newspapers informing customers of the services that Panda offer. There is also a large advertisement in the golden pages, which is available to the general public. Regular tours of the facility are given to schools and to members of the public upon 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 2011.

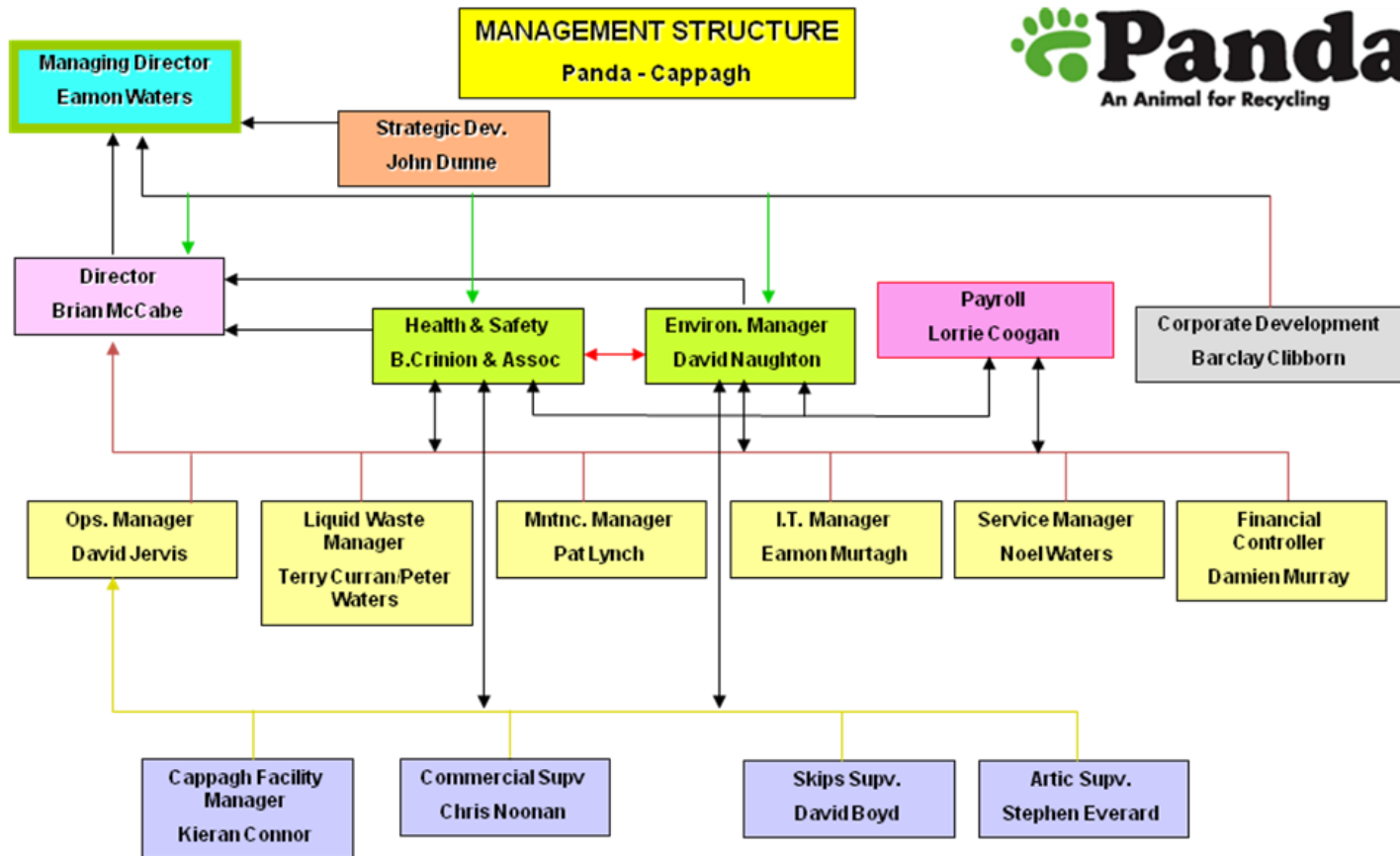
Appendix A

Site Layout






Appendix B

Organisational Structure



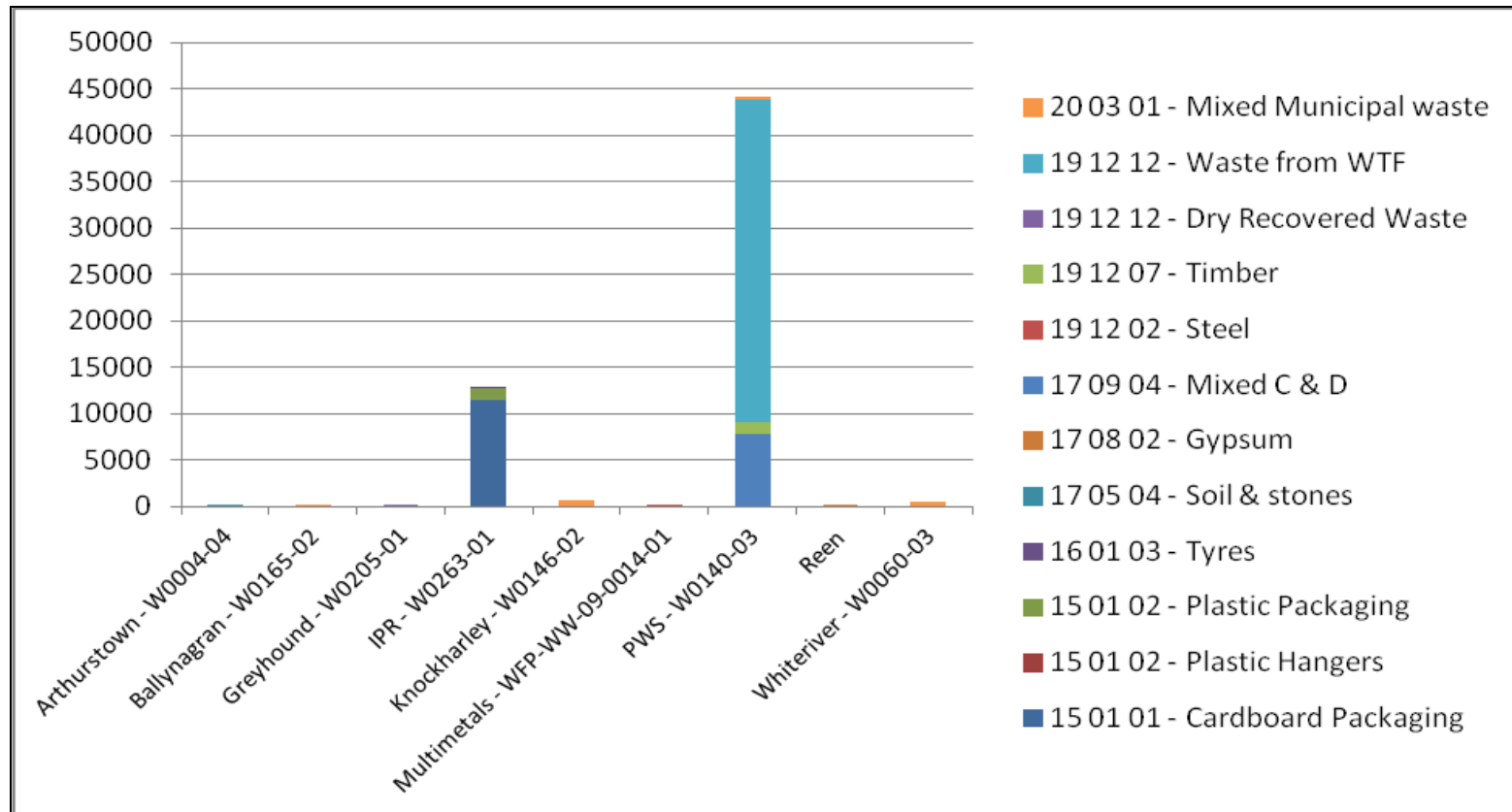
Appendix C

Financial Statement

	 Fagan Lynch Donnellan Chartered Accountants & Registered Auditors
Our Ref: VL/NMcK	
24 th January 2012	
Environmental Protection Agency, McCumiskey House, Richview, Clonskeagh Road, Dublin 14.	
	<u>Re: Nurendale Ltd T/A Panda Waste</u>
Dear Sir,	
We act as Accountants and Taxation Agents for the above and have acted in this capacity in excess of 10 years.	
We wish to confirm as follows:	
1. Statutory Accounts have been filed for all years up to 31.12.2010 with the Companies Office.	
Accounts and Tax Returns have also been filed with Inspector of Taxes for all years to 31 st December 2010.	
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	
	<small>Newbridge House, Athlumney, Navan, Co. Meath Tel: (046) 9033700 Fax: (046) 9029141 e-mail: info@fld.ie www.fld.ie John Fagan FCA, Vincent Lynch FCA, Mark McCarty FCA Registered to carry on audit work and authorized to carry on investment business by the Institute of Chartered Accountants in Ireland (ICAI). Chartered Accountants Ireland is the operating name of ICAI.</small>
	


Appendix D

Outgoing by Destination



Appendix E

PRTR Emissions

		<small>PRTR: W0261 Facility Name: Panda Waste File Name: PRTRW0261_C_011101.xls Release Year: 2011</small>																		
Guidance to completing the PRTR workbook		<h3>AER Returns Workbook</h3>																		
<small>Environmental Protection Agency</small>		<small>Version 1.1.13</small>																		
REFERENCE YEAR	2011																			
1. FACILITY IDENTIFICATION																				
Parent Company Name	Nurendale Ltd trading as Panda Waste Services Ltd.																			
Facility Name	Panda Waste																			
PRTR Identification Number	W0261																			
Licence Number	W0261-01																			
Waste or IPPC Classes of Activity	<table border="1"> <thead> <tr> <th>N</th> <th>class_name</th> </tr> </thead> <tbody> <tr> <td>4.4</td> <td>Recycling or reclamation of other inorganic materials. Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.</td> </tr> <tr> <td>3.11</td> <td>Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.</td> </tr> <tr> <td>3.12</td> <td>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.</td> </tr> <tr> <td>3.13</td> <td>Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.</td> </tr> <tr> <td>4.11</td> <td>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.</td> </tr> <tr> <td>4.13</td> <td>Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).</td> </tr> <tr> <td>4.2</td> <td>Recycling or reclamation of metals and metal compounds.</td> </tr> <tr> <td>4.3</td> <td></td> </tr> </tbody> </table>		N	class_name	4.4	Recycling or reclamation of other inorganic materials. Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.	3.11	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.	3.12	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.	3.13	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.	4.11	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.	4.13	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).	4.2	Recycling or reclamation of metals and metal compounds.	4.3	
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Address 1	Cappagh Road																			
Address 2	Finlagan																			
Address 3	Dublin 11																			
Address 4																				
	Dublin																			
Country	Ireland																			
Coordinates of Location	-6.3388153,40272																			
River Basin District	IEEA																			
NACE Code	3832																			
Main Economic Activity	Recovery of sorted materials																			
AER Returns Contact Name	David Naughton																			
AER Returns Contact Email Address	david.naughton@panda.ie																			
AER Returns Contact Position	Environmental Manager																			
AER Returns Contact Telephone Number	1850 65 65 65																			
AER Returns Contact Mobile Phone Number																				
AER Returns Contact Fax Number	046 3024183																			
Production Volume	0.0																			
Production Volume Units																				
Number of Installations	0																			
Number of Operating Hours in Year	0																			
Number of Employees	0																			
User Feedback/Comments																				
Web Address																				
2. PRTR CLASS ACTIVITIES																				
Activity Number	Activity Name																			
50.1	General																			
5(a)	Installations for the recovery or disposal of 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?	No																			
If applicable which activity class applies (as per Schedule 2 of the regulations)?																				
Is the reduction scheme compliance route being used?																				

4.1 RELEASES TO AIR [Link to previous years emissions data](#) PRTR W026_L_2011(1).xls | Return Year: 2011 | 26/03/2012 14:28

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR		Please enter all quantities in this section in KGs					
No. Annex II	POLLUTANT Name	DD	ADD EMISSION POINT		QUANTITY		
		Mod 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 PRTR POLLUTANTS

RELEASES TO AIR		Please enter all quantities in this section in KGs					
No. Annex II	POLLUTANT Name	DD	ADD EMISSION POINT		QUANTITY		
		Mod 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 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	DD	ADD EMISSION POINT		QUANTITY				
		Mod Used	DS1	DS2	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year		
210	Dust	Gravimetry	Emission Point 1	Emission Point 2	0.04	0.07	0.11	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) emissions to the environment under T (total) KG/yr for Section A: Sector-specific PRTR pollutants above. Please complete the table below:

Landfill:	Panda Waste	T (Total) kg/Year		Facility Total Capacity m3 per hour
		Mod Used	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 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:W0251 Facility Name: Panda/Water/Forms: PRTRW0251_2011.xls Release Year: 2011 | 26/03/2012 14:28

SECTION A : SECTOR SPECIFIC 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
ADD NEW ROW		DELETE ROW*		* Select a row by double-clicking on the Pollutant Name (Column 2) 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
ADD NEW ROW		DELETE ROW*		* Select a row by double-clicking on the Pollutant Name (Column 2) 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
ADD NEW ROW		DELETE ROW*		* Select a row by double-clicking on the Pollutant Name (Column 2) then click the delete button				

4.3 RELEASES TO WASTEWATER OR SEWER		Link to previous years emissions data		IPRR#: W02611 Facility Name: Panda Waste Filename: PRTRW0261_2011(1).xls Return Year: 2011		26/03/2012 14:28	
SECTION A : PRTR POLLUTANTS							
OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER							
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)
06	Ammonia (NH3)	M	ALT	Colorimetry	0.88	0.88	0.0
17	Arsenic and compounds (as As)	M	ALT	ICPMS	0.0	0.0	0.0
18	Cadmium and compounds (as Cd)	M	ALT	ICPMS	0.0	0.0	0.0
19	Chlorides (as Cl)	M	ALT	Colorimetry	6.32	6.32	0.0
19	Chromium and compounds (as Cr)	M	ALT	ICPMS	0.0	0.0	0.0
20	Copper and compounds (as Cu)	M	ALT	ICPMS	0.0	0.0	0.0
23	Lead and compounds (as Pb)	M	ALT	ICPMS	0.0	0.0	0.0
21	Mercury and compounds (as Hg)	M	ALT	ICPMS	0.0	0.0	0.0
22	Nickel and compounds (as Ni)	M	ALT	ICPMS	0.0	0.0	0.0
24	Zinc and compounds (as Zn)	M	ALT	ICPMS	0.01	0.01	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		Link to previous years emissions data		IPRR#: W02611 Facility Name: Panda Waste Filename: PRTRW0261_2011(1).xls Return Year: 2011		26/03/2012 14:28	
SECTION A : PRTR POLLUTANTS							
RELEASES TO LAND							
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
						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							
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

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 TRANSFERS OF WASTE (PRTR) (PRTR No: W02611 Facility Name: Panda Waste | Filename: PRTR W0261_2011(1).xls | Return Year: 2011)

Please enter all quantities on this sheet in Tonnes

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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 Licence/Permit No of Next Destination Facility		Hazardous Waste: Address of Next Destination Facility		Name and Licence / Permit No. and Address of Final Receiver / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used		Waste Name	Permit No.	Waste Name	Address		
Within the Country	17 05 04	No	43.68	soil and stones other than those mentioned in 17 05 03	R13	M	Weighed	Offsite in Ireland	Athurstown Landfill, W0004-04	Athurstown, Kill, Co. Kildare, Ireland				
Within the Country	20 03 01	No	115.48	mixed municipal waste other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 12	R13	M	Weighed	Offsite in Ireland	Ballynagran Landfill, W0165-02	Ballynagran, Coolbeg and Kildandra, Co. Wicklow, Ireland				
Within the Country	19 12 12	No	39.44	II	R13	M	Weighed	Offsite in Ireland	Greyhound, W0205-01	Dublin, Ireland				
Within the Country	15 01 01	No	11402.65	paper and cardboard packaging	R13	M	Weighed	Offsite in Ireland	Irish Packaging Recycling Ltd, W0263-01	Road, Walkinstown, Dublin 12, Ireland				
Within the Country	15 01 02	No	1415.57	plastic packaging	R13	M	Weighed	Offsite in Ireland	Irish Packaging Recycling Ltd, W0263-01	Road, Walkinstown, Dublin 12, Ireland				
Within the Country	16 01 03	No	7.68	end-of-life tyres	R13	M	Weighed	Offsite in Ireland	Irish Packaging Recycling Ltd, W0263-01	Road, Walkinstown, Dublin 12, Ireland				
Within the Country	20 03 01	No	621.57	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Knockharley Landfill, W0146-02	Knockharley, Navan, Co. Meath, Ireland				
Within the Country	19 12 02	No	209.2	ferrous metal	R13	M	Weighed	Offsite in Ireland	Multimetals, WFP-WW-09-0014-01	Conway Port Industrial Estate, Ballynagran, Wicklow, Ireland				
Within the Country	16 01 03	No	10.74	end-of-life tyres	R13	M	Weighed	Offsite in Ireland	Panda Navan, W0140-03	Rathdrinagh, Beuparc, Navan, Co. Meath, Ireland				
Within the Country	17 09 04	No	7772.07	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	R13	M	Weighed	Offsite in Ireland	Panda Navan, W0140-03	Rathdrinagh, Beuparc, Navan, Co. Meath, Ireland				
Within the Country	19 12 07	No	1269.5	wood other than that mentioned in 19 12 06 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 12	R13	M	Weighed	Offsite in Ireland	Panda Navan, W0140-03	Rathdrinagh, Beuparc, Navan, Co. Meath, Ireland				
Within the Country	19 12 12	No	34807.2	II	R13	M	Weighed	Offsite in Ireland	Panda Navan, W0140-03	Rathdrinagh, Beuparc, Navan, Co. Meath, Ireland				
Within the Country	20 03 01	No	282.78	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Panda Navan, W0140-03	Rathdrinagh, Beuparc, Navan, Co. Meath, Ireland				
Within the Country	17 08 02	No	58.04	gypsum-based construction materials other than those mentioned in 17 08 01	R13	M	Weighed	Offsite in Ireland	Compost, P/AR/MMS/02/09	Middletown, Co. Armagh, BT60 4HW, Ireland				
Within the Country	20 03 01	No	574.8	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Whiteriver Landfill, W0060-02	Dunleer, Co. Louth, Ireland				