ANNUAL ENVIRONMENTAL REPORT 2013

GREYHOUND RECYCLING & RECOVERY

Crag Avenue
Clondalkin Industrial Estate,
Dublin 22

EPA Licence W0205-01

Reporting period
1st of January 2013 -31st of December 2013

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1. Introduction

The following Annual Environmental Report was prepared in accordance with Condition 11.11 and Schedule E of the waste licence W0205-01, and with reference to Environmental Protection Agency guidance on Annual Environmental Reporting. This AER is detailing the activities carried out at the facility in the period from 1st January 2013 to 31st December 2013.

2. Description of the Site & Licensed Activities

Greyhound Recycling and Recovery (GRR), Sustainable Resource Recovery Facility at Crag Avenue, Clondalkin Industrial Estate, Dublin 22, is surrounded in an Industrial Estate by various warehouses and industrial buildings. The estate is bounded to the west by the M50 Motorway, to the south by the Grand Canal, to the east by Clover hill Road and to the north by a Dublin-Kildare railway line and Clover hill Industrial Estate, an industrial estate managed by the IDA.

Greyhound Recycling and Recovery Limited commenced operations at the Crag Avenue site under the Waste Licence W0205-01 in September 2007. This licence allows for the following activities to be carried out:

- Class 11, 12, and 13 Waste Disposal Activities, in accordance with the Third Schedule of the Waste Management Act, 1996.

- Class 2, 3, 4, 8, 11, 12 and 13 Waste Recovery Activities, in accordance with the Fourth Schedule of the Waste Management Act, 1996.

Greyhound Recycling & Recovery at Crag Avenue accepts non-hazardous commercial and industrial waste as well as household waste.

3. Waste Accepted 2013

Greyhound Recycling and Recovery Limited accepted the following waste streams during the reporting period:

- Commercial and Industrial waste comprising of source segregated metals and wood, mixed municipal waste and mixed packaging waste
- Mixed Dry Municipal household waste
- Mixed Residual household waste.

4. Waste Quantities 2013

The Greyhound Recycling and Recovery site at Crag Avenue is licensed to handle a maximum of 250,000 tonnes of waste per annum. The total quantity of material accepted at the licensed facility during the reporting period was 166,118 tonne. The percentage of recycling and recovery achieved on wastes handled at the facility during the reporting period was 72.10%. A tabulated breakdown of the quantity and composition of wastes received, recovered, and disposed of, during the reporting period is shown in table 1. The tonnage on hand at the 31st of December 2013 awaiting processing or bulk shipping to other recycling facilities was 4,156 tonnes in excess of the 2012 figure.

Table 1 Waste Acceptance and Dispatch 2013

EWC Code	Description of Waste	Waste in (tonnes)	Waste out (tonnes)	Recovery Disposal	%
02 07 04	Oat and wheat grains	160	25	Recovery	0,0%
13 05 03	on site activity interceptor sludge		156	Disposal	0,1%
15 01 01	cardboard packaging		21	Recovery	0,1%
15 01 02	plastic packaging	0.4		Recovery	0,0%
15 01 04	metal drums and cages	3	2	Recovery	0,0%
15 01 06	mixed packaging	14595	14264	Recovery	8.90%
17 02 04	Wood pole	17	17	Recovery	0.00%
17 04 05	Iron & steel scrap from C&D		0.9	Recovery	0.00%
17 04 07	mixed non-hazardous, non-ferrous metals	161	84	Recovery	0.10%
17 05 04	C & D	72	72	Recovery	0.00%
17 08 02	plasterboard	106		Recovery	0,0%
17 09 04	C & D general waste	190	328	Recovery	0.20%
19 12 02	Ferrous metal		494	Recovery	0.30%
19 12 04	Plastic and rubber	55		Recovery	0.00%
19 12 05	Glass	820	820	Recovery	0.50%
19 12 10	Solid Recovered Fuel (SRF) and Refuse Derived Fuel (RDF)	5722	115562	Recovery	72.10%
19 12 12	organic screenings		24441	Recovery	15.20%
20 01 01	mixed paper and newspapers	7	25	Recovery	0,0%
20 01 10	shredded clothing	16			0,0%
20 01 36	WEEE	5	5	Recovery	0,0%
20 01 38	wood	1758	1683	Recovery	1.00%
20 01 39	hard plastics: toys, pipes, crates, plates	6		Recovery	0,0%
20 01 40	metals separated from MMW		90	Recovery	0,1%
20 02 01	Compost	421	341	Recovery	0.20%
20 03 01	mixed dry recyclables from household collection	353	4	Recovery	0,0%
20 03 01	MMW from commercial and household sources	141651		Recovery	0,0%
20 03 01	MMW from commercial and household sources		1334	Disposal	0,8%
20 03 07	Bulky Waste		593	Disposal	0,4%
	Total	**166118**	**160362**		
					100,00%

5. Environmental Monitoring & Emissions Data

Monitoring of emissions from the facility during the reporting period was carried out in accordance with Condition 8 and Schedule B and C of Greyhound Recycling and Recovery Ltd. waste licence W0205-01.

Dust deposition monitoring

AD Analytical was retained by Greyhound Recycling and Recovery to carry out dust monitoring in two locations between July 1st and July 30th 2013. This is in accordance with the waste licence and is compliant with Schedule E.2 of the waste Licence. Dust locations were selected to assess dust deposition from the day to day activity of the site. The results of the dust monitoring are shown in the below table.

Table 2: Dust Monitoring Results

Monitoring Points	Result mg/m²/d	Limited mg/m²/d
Point 1	158.4	ELV 350 mg/m²/d
Point 2	79.6	ELV 350 mg/m²/d

The dust deposition did not exceed the licensed limits in either monitoring points. An active dust management programme is currently in place which has helped to reduce dust around the site. This programme has continued into 2014.

Foul Sewer discharge monitoring

In accordance with Waste Licence W0205-01 the wastewater monitoring is carried out monthly. Greyhound analysed trade effluent twelve times in 2013. All samples were taken from the Sewer Emission Monitoring point SE1. Greyhound exceeded limit

values in two samples during the year. The results of the analysis are shown in the table 3. In 2013 Greyhound Recycling and Recovery engaged in a program to clean down sewer drains and this contributed to a reduction in the BOD and COD levels in the discharge sewer water. This has consistently reduced overall levels to well below the waste water discharge licence limits. The monthly clean down of the interceptors has improved the overall quality of the water discharge. The interceptors are monitored on a daily basis and where issues were identified additional clean down of the interceptors took place. Overall the levels are lower that recorded parameters in 2012.

Table 3: Sewer Results

Date sampled	BOD	COD	Suspended Solids	Oil fats & greases	pH	Sulphates	Mineral oil	Phosphates	Detergent	Conductivity
ELV(mg/l)=>	2000	8000	2000	200	06-1Oct	500	10	100	100	
28-Jan-13	448	662	272	53.6	7.35	83.3	12.44	0.136	0.14	372
27-Feb-13	103	172	76	11	7.43	34.9	<0.001	1.105	0.13	354
29-Mar-13	159	244	56	3.29	7.79	34.2	<1.00	0.186	0.28	545
17-Apr-13	140	373	126	8.49	7.78	52.7	0.022	10.8	0.09	496
31-May-13	1753	9430	2290	46.6	6.02	409.6	0.61	19.3	0	7550
14-Jun-13	224	453	114	6.2	7.1	112.5	<0.001	11.5	0.66	928
26-Jul-13	2	56	12	<1	8.92	44.3	0.019	2.08	0.07	695
30-Aug-13	77	150	34	<1	8.18	35.2	<0.001	1.88	0.86	392
30-Sep-13	264	431	54	33.6	7.02	53.8	2.2	0.333	1.46	435
25-Oct-13	17	49	16	5	6.89	<20	<0.001	<0.025	0.55	225
27-Nov-13	142	52	17	<1	8.12	30.8	<0.001	0.8	0.27	302
18-Dec-13	61	102	52	<1	7.9	38.6	<0.001	0.65	0.04	248

Surface Water discharge monitoring

In accordance with Waste Licence W0205-01 the surface water monitoring is to be carried out quarterly. Greyhound analysed storm water twelve times in 2013. In addition the conductivity and PH was examined on a daily basis by the nominated employee and any deterioration in water quality was reported for follow up action. This action consisted of conducting an additional interceptor clean down.

All samples were taken from the Storm Water Monitoring point SW1. The results of the analysis are shown in Table 4.

Table 4: Storm Water Results

Date sampled	pH	COD	Suspended Solids	Oils, Fats and Greases	Conductivity
28-Jan-13	7.73	76	28	<1	458
27-Feb-13	7.86	16	22	<1	532
29-Mar-13	7.93	32	9	<1	974
17-Apr-13	7.63	49	10	<1	405
31-May-13	7.54	23	2	<1	<132
14-Jun-13	7.59	37	11	<1	563
26-Jul-13	7.73	50	4	<1	666
30-Aug-13	7.7	26	8	<1	964
30-Sep-13	7.66	28	<2	<1	212
25-Oct-13	7.31	54	19	<1	550
27-Nov-13	7.58	<8	<2	<1	172
18-Dec-13	8.06	21	6	<1	498

Throughout 2013 Greyhound Recycling and Recovery carried out monthly clean downs of all the interceptors on site and adopted a hand's on approach to teaching employees to ensure the interceptors remained clean. As a result the overall quality of the surface water at the discharge point has improved in comparison to 2012 and this can be seen from the reduction in 2013. This program has continued into 2014.

Noise Monitoring

In accordance with Waste Licence W0205-01 the noise monitoring should be carried out annually, during night and day activity. In 2012 noise monitoring was carried out on the 16th of September 2013 by AD Analytical at 5 monitoring points. Noise characteristics of the area are typical of an industrial estate zoned for light industrial activity. The results of the noise monitoring are shown in the below table.

Table 5: Noise Monitoring Results

Monitoring location	Day /Night period	L_{Aeq} dB(A)	L_{Amax} dB(A)	L_{A90} dB(A)	L_{A10} dB(A)
Noise Emission Limits		Daytime dB(A) L_{Aeq} (30 minutes) 55 dB(A) Night-time dB(A) L_{Aeq} (30 minutes) 45 dB(A)			
N1	Day	63	75	50	66
	Night	65	78	51	70
N2	Day	60	70	46	59
	Night	60	75	44	64
N3	Day	62	78	48	60
	Night	44	61	40	46
N4	Day	60	77	47	61
	Night	51	74	42	52
N5	Day	74	80	55	78
	Night	48	68	41	50

At N1 the main source of noise was traffic and noise from surrounding industrial units. At this point noise from truck entering and exiting the site also added to the noise levels. At N2 the significant noise levels were noted to be from surrounding industrial units and train movements. At N3 the most significant contributor of noise was staff movements. While a N4 and N5 road traffic was the main contributor to noise levels. The dominant noise sources are mainly traffic from the busy road network that surrounds both the industrial estate and the noise sensitive locations. In addition the site backs onto the railway network that has significant traffic throughout the day. As a result Greyhound Recycling cannot be considered to add, significantly, to the noise environment at any of the boundary or noise sensitive locations.

6. Resource & Energy Consumption

Data on resource, energy and primary raw material consumption for the reporting period is presented in Table 6 (below).

Table 6: Resource & Energy Usage 2013

Raw Material/Resource	Application	Consumption
Detergent	Vehicle and plant washing	1605 litres
Deodorising liquid	Misting system	3894 litres
Electricity	Office and fixed plant	1232 MWh
Mains water	Washing, Site cleaning, NAPS washing, misting system.	9768 cubic meters
Hydraulic Oil	Process plant and fleet vehicles	4800 litres
Engine Oil	Process plant and fleet vehicles	900 litres
Marked Diesel	Mobile plant machinery	181295.26 litres

7. Facility Development Works

The developments undertaken in the reporting period is presented in Table 7 (below).

Table 7: Development Works Undertaken During the Reporting Period

Project Objective	Works undertaken
Decrease of nuisance emission	The Carbon in the Odour abatement system was replaced in 2013.
Reduce odour emissions from waste handling and processing activities	Works were conducted to re-balance the extraction fans operating the NAPS System.
	In-situ Carbon Regeneration of the NAPS system was conducted in 2013
	A research was undertaken to design the phase 1 project to seal the building which was required to facilitate the Phase 2 project to upgrade the Odour Abatement System. An external odour consultant was engaged to complete this research and prepare a SEW for submission to the EPA for approval.
	As part of the Phase 1 odour project two new rapid Roller Doors were installed at Door 7 and Door 8.

	As part of the phase 1 project two Air Curtains were installed over the new doors. The Air curtains were interlinked to operate automatically when doors are open to provide additional odour protection.
	As part of phase 1 building 2 was re-sealed and a smoke test carried out to ensure air tightness of the building.
	As part of Phase 1 works Air In-take Louvers were installed in Building 2. These were designed to assist in regulating the negative air pressure in Building 2 and interlinked to the new rapid roller doors.
Achieve organized, efficient and safe movement of cars, trucks and machinery on site minimising noise and emissions	As part of Phase 1 Traffic lights were installed on new entrance doors to building 2 (Doors 7 & Doors 8) to manage traffic and reduce the risk of impacts damaging the main entrance / exit doors.
	As part of Phase 1 works traffic bollards were installed at the entrance to these doors to protect them and no incident / accident has occurred in regard to the operations of these doors since their installation.
	During the ongoing concrete repair program which involves continually working to repair concrete which is damaged by heavy machinery 421m² of concrete was repaired. This program will continue into 2014.
Review of proposed Upgrade to odour Abatement Equipment	GRR recognised the need to ensure that the proposed upgrade to the odour abatement system must meet the objectives of all stakeholders and eliminate the potential for Odour Nuisance arising from the facility. GRR engaged an external Odour Expert to conduct a root and branch independent assessment of the proposed odour abatement system. As a result of this independent assessment GRR engaged an external Odour Expert to map out in a step by step process the necessary actions to reduce the risk that an upgrade of the existing odour abatement system would not be fit for purpose or meet the expectations of all stakeholders. This Independent Odour consultant

	recommended that Greyhound Recycling and recovery carry out improvements to the building fabric to seal the building and to then conduct research to ascertain the most suitable odour abatement equipment required. Research and trials for phase 1 were initiated in 2013 and following approval from the EPA Phase 1 Odour Management program works were completed in June 2013.

8. Environmental Systems & Procedures

Greyhound Recycling and Recovery Ltd. facility at Crag Avenue operate an Environmental Management system to ISO9001 and ISO14001 management system standard. All reviews, amendments, and implementations of quality and environmental procedures are undertaken within the framework of the management systems.

ENVIRONMENTAL OBJECTIVES AND TARGETS FOR 2013

No.	Aspect(s)	Objective	Target	Due
1	Waste Management	Ensure the most efficient and environmentally sustainable management of client waste streams.	The company began producing Refuse Derived fuel in 2012. This offered more energy recovery outlets and thus resulted in a more sustainable product enabling the processing of stocks on a more effective JIT (Just In Time) system in comparison to SRF production where limited outlets can result in delays. The Company increased the number of Energy Recovery outlets that are authorised to accept Refuse Derived Fuel from the GRR facility in 2013 and intend to further increase available outlets in 2014. This will reduce the volume of stock on the site and ensure that issues external to the GRR facility will not affect operations at the facility. The Company will also set up a system to ship material on a daily basis from the production facility.	Dec 2014
2	Air	Reduce odour emissions from waste handling and processing activities	Engage an Independent External Consultant to conduct research and review options for upgrade of the Odour Abatement system that form part of Phase 2 works. These works will be completed by September 2014	Sept 2014
			Review draft design of Phase 2 Upgrade and research potential suppliers in conjunction with Independent External Odour consultant.	Jan 2014
			Complete SEW (Specified Engineering Works) in conjunction with Independent External Odour Consultant and submit to the EPA in Jan 2014 to seek approval.	Jan 2014
			Identify an external Odour Laboratory and engage the Laboratory to conduct independent odour monitoring of the existing Carbon beds and submit to the EPA on a Quarterly basis in 2014.	Dec 2014
			Maintain the existing Carbon Beds until works are completed on the new odour abatement system in September 2014	Sept 2014
			Ensure that the existing Odour Abatement system and Negative Air Pressure System (NAPS) is maintained in Material Recycling Building 2	Sept 2014

3	Water / Oil	Prevent surface water contamination, decrease emission values to storm water and sewer	Adopt a hands on Yard management program to ensure the yard is kept clean at all times at the facility.	Ongoing
			Ensure Interceptors are functional and operational at all times and trace any non-conformances back to root cause and initiate prevention measures.	Ongoing
			Monitor external laboratory testing of Waste Water Discharge and ensure the facility complies with its Waste Water Discharge Licence.	Ongoing
			Monitor external laboratory testing of Surface Water Discharge and ensure the facility complies with its Waste Water Discharge Licence.	Ongoing
4	Traffic	Achieve organized, efficient and safe movement of cars, trucks and machinery on site minimising noise and emissions	Maintain the traffic lights at the main facility Entrance doors 7 and Door 8 (Material recycling building 2) to manage traffic and reduce the risk of impacts damaging the main entrance / exit doors.	December 2014
			Maintain traffic bollards at the entrance door 7 and Door 8.	Ongoing
			Identify areas for further concrete improvement works and conduct repairs to yard as required	Ongoing
6	Resource use and Energy Efficiency	Identify opportunities for energy use reduction and efficiency. Identify opportunities for reduction in the quantity of water used on site	Review the Electricity usage for the site and identify where the Company can reduce energy requirements.	Ongoing
7	Integrated Management System	Achieve better communication between departments to increase control of compliances with the Waste License	Review operation of the Odour abatement system in conjunction with an Independent Odour Consultant and develop a step by step process to reduce Odour complaints	Ongoing
			Update Legislation Register and Environmental Aspects and impacts.	December 2014

9. Incidents

There was no non odour related environmental incidents on site in 2013.

10. Complaints

The facility received 35 complaints during the reporting period. 15 of them were made directly to Greyhound Recycling and Recovery and 20 via the EPA. 34 complaints received during the reporting period were in relation to odour and 1 to fly activity. All complaints were recorded and followed with the appropriate remedial actions. The company has invested significantly in mitigation measures to manage odour in 2013. These measures formed part of Phase 1 works which included works to completely seal material recycling building 2 along with the installation of two new rapid roller doors and Air curtains. In addition new door traffic lights reduced the number of incidents with entrance doors to zero. The company also installed louvers to regulate the negative air pressure in the building and these were linked to the operations of the doors. This has resulted in a reduction in the number of complaints received in 2013 in comparison to 2012 and the continuation of these measures form part of the environmental objectives and targets for 2014.

11. Odour Management Programme

The odour management programme for the licensed facility was submitted to the Agency in March 2013 and the following works as part of Phase 1 were completed to improve Odour Management at the facility and to maintain the Negative Air Pressure System (NAPS) operation:

- In January 2013 the Company engaged an Independent Odour Consultant and initiated research to improve the Odour Management at the facility. This research subsequently resulted in the development of Phase 1 works.

- Phase 1 works were necessary to reduce the volume of air that needed to be treated by an Odour abatement system by sealing the material recycling building that was utilised to process Refuse Derived Fuel. When Phase 1 works were completed in June 2013 subsequent testing to quantify the volume of air to be treated enabled research to take place to define Phase 2 works.
- The first part of the research included an independent review of the proposed IPEC Odour Abatement System which consisted of an additional parallel unit for air treatment including a stack discharge. The research concluded that the system would not be effective in completing resolving the Odour issue to the satisfaction of all stakeholders.
- Greyhound Recycling and Recovery subsequently engaged an Independent Odour Monitoring consultancy to conduct research and provide a step by step process to improve the operation of the odour abatement system at the facility and this formed the basis of Phase 1 works.
- Specified Engineering works were prepared for submission to the Environmental Protection Agency for Phase 1 works and following approval of Phase 1 works by the EPA, were completed by in June 2013.
- Phase 1 works consisted of a deep clean of Material Recycling Building two and an overhaul of the existing odour abatement system to improve operation of the system. Following these works the existing concrete walls were deep cleaned and sealed. Trials were conducted in regard to sealing the fabric of the Recycling building and following successful trials the building was sealed. The sealing of the entire building was to prevent the loss of air from the building except through the designated air extraction to the Odour Abatement System. Two new rapid up and over doors were installed in the

material recycling building. Additionally added protections in the form of Air curtains were installed. These were interlinked to the doors to provide additional protection as the doors open and close. As part of Phase 1 works air intake louvers were also installed to manage the air intake into the building and this system was interlinked to the new doors to facilitate the management of the negative air pressure in the recycling building.

12. Review of Nuisance Controls

Pest contractor, Pest Guard carried out eighteen visits to control vermin in 2013. These visits were to rebated rat poison boxes, replace broken boxes or install additional where required. Additionally Pestguard visited the Greyhound facility 23 times to spray the sheds for fly control.

13. Interceptors

The following amount of effluent was sent off site during the 2013 reporting period:

- 9.32 tonnes of interceptor sludge to Rilta Environmental
- 146.26 tonnes of interceptor sludge to Enva Ireland Ltd.

This is an increase of 47.58 tonne due to increased clean downs of the interceptors in 2013. Interceptors were inspected on a daily basis and any where a slight deterioration of water quality was noted the Interceptors were cleaned down.

14. Financial Provision

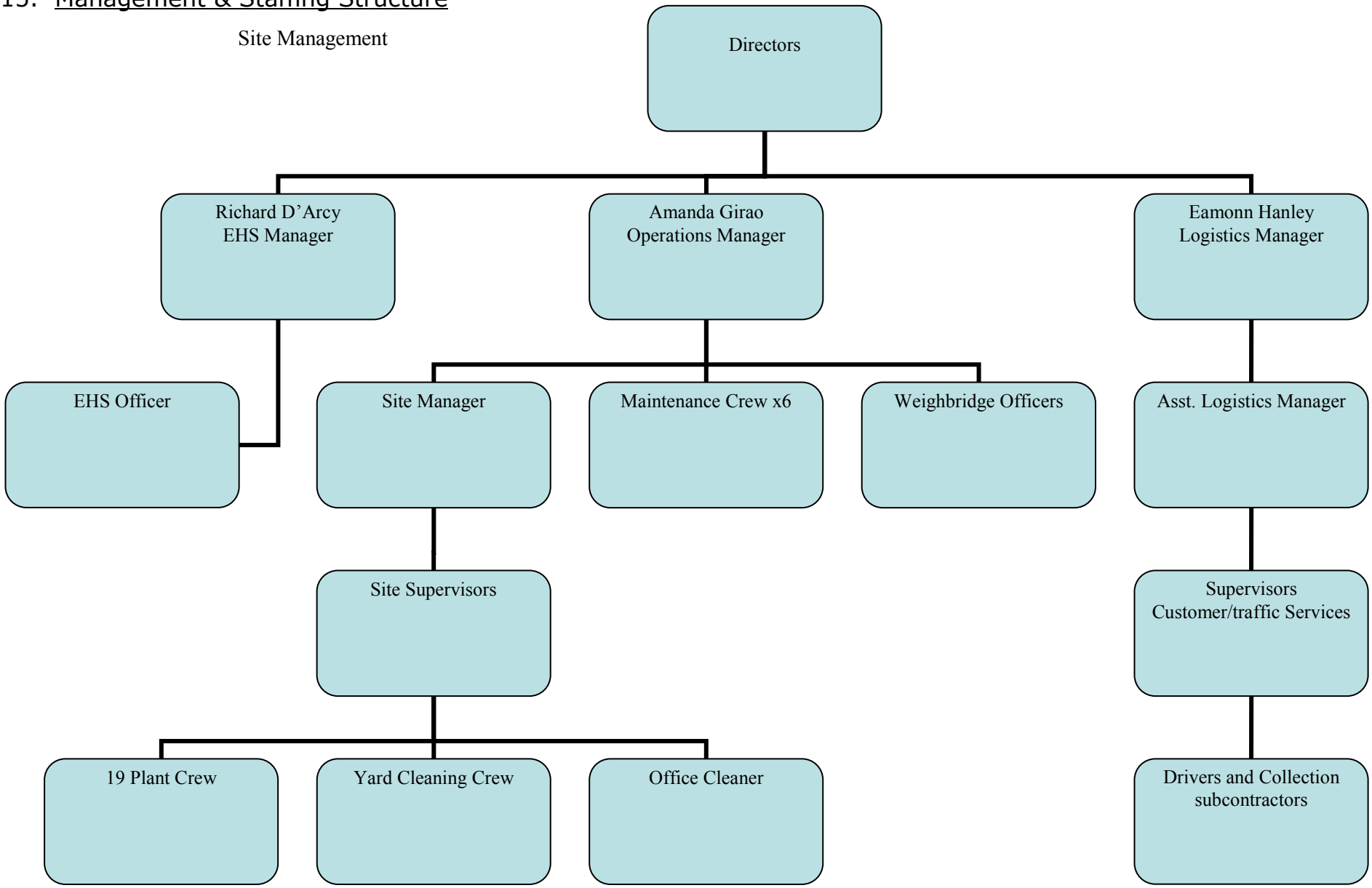
Greyhound Recycling and Recovery Ltd. public and product liability indemnity limit is up to €13,000,000. In terms of environmental pollution the indemnity applies to damage to any buildings or other structures or of water or land or atmosphere caused by pollution or contamination. The policy covers pollution caused by a sudden,

identifiable, unintended and unexpected event and not gradual pollution. This cover will be in excess of any environmental liability that may arise due to such incident.

All trans-frontier shipment of non-green list material undertaken by Greyhound Recycling and Recovery is effected under a financial guarantee calculated on the cost for return and disposal of material where warranted.

15. Management & Staffing Structure

Site Management



16. Programme for Public Information

Greyhound Recycling and Recovery Limited maintains a *Public Information File* at the licensed facility. This file contains specified information relating the environmental performance of the Company. The file is available for inspection by the public on request at the facility. No public requests for information were received during the reporting period.

17. Residuals Management Plan

A revised Residual Management Plan was submitted to the Agency in January 2014 for approval.

18. Environmental Liabilities Risk Assessment

A revised Environmental Liability Risk Assessment was submitted to the Agency in January 2014 for approval.

| PRTR# : W0205 | Facility Name : Greyhound Recycling & Recovery | Filename : w0205_2013.xls | Return Year : 2013 |

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.17

REFERENCE YEAR	2013

1. FACILITY IDENTIFICATION

Parent Company Name	Greyhound Recycling and Recovery
Facility Name	Greyhound Recycling & Recovery
PRTR Identification Number	W0205
Licence Number	W0205-01

Waste or IPPC Classes of Activity

No.	class_name
4.4	Recycling or reclamation of other inorganic materials.
3.11	Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.12	Repackaging 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.
4.11	Use of waste obtained from any activity referred to in a preceding paragraph of this Schedule.
4.12	Exchange of waste for submission to any activity referred to in a preceding paragraph of this Schedule.

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.
4.8	Oil re-refining or other re-uses of oil.
Address 1	Crag Avenue
Address 2	Clondalkin Industrial Estate
Address 3	Clondalkin
Address 4	Dublin 22
	Dublin
Country	Ireland
Coordinates of Location	-6.38899 53.3323
River Basin District	IEEA
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	Richard D'Arcy
AER Returns Contact Email Address	richard.darcy@Greyhoundrecycling.com
AER Returns Contact Position	EHS Manager
AER Returns Contact Telephone Number	01 4577777
AER Returns Contact Mobile Phone Number	0879974343
AER Returns Contact Fax Number	01 457 1234
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	30

User Feedback/Comments	Water sample variation as there were no issues with samples (such as insufficent sample) taken in 2013 compared to 2012. The Company focused improving the quality of the discharged water and increased clean down of interceptors and truck wash along with increased sampling.
Web Address	

2. PRTR CLASS ACTIVITIES

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

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

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

4. WASTE IMPORTED/ACCEPTED 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) ?	

This question is only applicable if you are an IPPC or Quarry site

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

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

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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					ADD EMISSION POINT	QUANTITY		
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
306	**COD**	E	ESTIMATE	Total water discharged to surface water in 2013 = 23831 cu.m (Estimate)	9818.0	9818.0	0.0	0.0
240	Suspended Solids	E	ESTIMATE		2835.0	2835.0	0.0	0.0
314	Fats, Oils and Greases	E	ESTIMATE		0.0	0.0	0.0	0.0

4.3 RELEASES TO WASTEWATER OR SEWER — Link to previous years emissions data — | PRTR# : W0205 | Facility Name : Greyhound Recycling & Recovery | Filename : w0205_2013.x 25/04/2014 10:03

8 8 16 23 6 6 6 6

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

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

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

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			ADD EMISSION POINT	QUANTITY		
			Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
303	**BOD**	E	ESTIMATE	Total water discharged into sewer in 2013 = 17370 cu.m	58884.0	58884.0	0.0	0.0
306	COD	E	ESTIMATE		211462.0	211462.0	0.0	0.0
240	Suspended Solids	E	ESTIMATE		54177.0	54177.0	0.0	0.0
314	Fats, Oils and Greases	E	ESTIMATE		2914.0	2914.0	0.0	0.0
343	Sulphate	E	ESTIMATE		16152.0	16152.0	0.0	0.0
324	Mineral oils	E	ESTIMATE		599.0	599.0	0.0	0.0
332	Ortho-phosphate (as PO4)	E	ESTIMATE		847.0	847.0	0.0	0.0
308	Detergents (as MBAS)	E	ESTIMATE		79.0	79.0	0.0	0.0

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0205 | Facility Name : Greyhound Recycling & Recovery
| Filename : w0205_2013.xls | Return Year : 2013 |

25/04/2014
10:03

Please enter all quantities on this sheet in Tonnes

0

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M / C / E	Method Used					
Within the Country	13 05 03	Yes	146.0	interceptor sludges	D1	M	Weighed	Offsite in Ireland	ENVA Ireland Ltd ,WO184-01	Clonminam Industrial Estate ,.,Portlaoise Co Laois ,.,Ireland	ENVA Ireland Ltd ,WO184-01,Clonminam Industrial Estate Portlaoise Co Laois ,.,Portlaoise Co Laois ,.,Ireland	Clonminam Industrial Estate Portlaoise Co Laois ,.,Portlaoise Co Laois ,.,Ireland
Within the Country	13 05 03	Yes	9.0	interceptor sludges	D1	M	Weighed	Offsite in Ireland	RILTA Environmental ,W0192-01.	Unit 402 Grant's Drive Greenogue Business Park . ,.,Rathcoole Co. Dublin ,.,Ireland	RILTA Environmental ,W0192-01.,Unit 402 Grant's Drive Greenogue Business Park . ,.,Rathcoole Co. Dublin ,.,Ireland	Unit 402 Grant's Drive Greenogue Business Park . ,.,Rathcoole Co. Dublin ,.,Ireland
To Other Countries	15 01 01	No	21.0	paper and cardboard packaging	R3	M	Weighed	Abroad	HUHTAMAKI (LURGAN) LTD,P0061-04A	INN ROAD,DOLLINGSTOWN,LURGAN, CO ARMAGH BT66 7JN,Ireland		

Within the Country	15 01 04	No	0.4	metallic packaging	R4	M	Weighed	Offsite in Ireland	Hammond Lane Metal Co. ,WFP-DC-09-0013-01	Pigeon Hse rd Ringsend ,.,Dublin 4 ,.,Ireland			
Within the Country	15 01 04	No	1.0	metallic packaging	R4	M	Weighed	Offsite in Ireland	Wilton Waste Recycling Limited,WFP-CN-09-0005-01	Kiffa Crosserlough ,.,.,.,County Cavan			
Within the Country	15 01 06	No	146.0	mixed packaging	R3	M	Weighed	Offsite in Ireland	Oxigen Environmental,w0152-03	Merrywell Industrial Estate ,Robinhood Road,Ballymount, Dublin22,Ireland			
Within the Country	15 01 06	No	7512.0	mixed packaging	R3	M	Weighed	Offsite in Ireland	Killarney Waste Disposal ,W0217-01	Aughacureen ,., Killarney Co. Kerry ,.,Ireland			
Within the Country	15 01 06	No	790.0	mixed packaging	R3	M	Weighed	Offsite in Ireland	Ballymount MRF ,W0238-01	Merrywell Industrial Estate , Ballymount Road Lower ,Ballymount Dublin 12,.,Ireland			
Within the Country	15 01 06	No	1954.0	mixed packaging	R3	M	Weighed	Offsite in Ireland	Dillon Waste ,W0184-01	The Kerries ,.,Tralee Co. Kerry ,.,Ireland			
Within the Country	15 01 06	No	2189.0	mixed packaging	R3	M	Weighed	Offsite in Ireland	Greenstar Limited,W0053-01	.,.,Bray Depot La Vallee House ,Fassaroe Bray ,Co. Wicklow.			
Within the Country	15 01 06	No	1182.0	mixed packaging	R3	M	Weighed	Offsite in Ireland	RE-GEN waste LTD,WML 22/25	Unit 7 Shepherds Drive,Carnbane Industrial Estate,.,Newry Co Down,Ireland	Rehab Recycle ,WFP-DS.-10-0008-01,77 Broomhill Road , Thallaght ,Dublin 22. ,Dublin 22. ,Ireland	77 Broomhill Road , Thallaght ,Dublin 22. ,Dublin 22. ,Ireland
Within the Country	15 01 06	No	493.0	mixed packaging	R3	M	Weighed	Offsite in Ireland	Padriag Thornton Waste Disposal,W0044-03	Kileen Rd,Ballyfermot,Dublin,D10,Ireland			
Within the Country	17 05 04	No	41.0	soil and stones other than those mentioned in 17 05 03	D1	M	Weighed	Offsite in Ireland	Padriag Thornton Waste Disposal,W0044-03	Kileen Rd,Ballyfermot,Dublin,D10,Ireland			

Within the Country	17 05 04	No	32.0	soil and stones other than those mentioned in 17 05 03	R4	M	Weighed	Offsite in Ireland	Nurendale Ltd T/A Panda Waste Services,W0261-01	Cappagh Road,.,Finglas,Dublin 11,Ireland
Within the Country	17 04 05	No	0.9	iron and steel	R4	M	Weighed	Offsite in Ireland	Wilton Waste Recycling Limited,WFP-CN-09-0005-01	Kiffa Crosserlough ,.,.,.,County Cavan
Within the Country	17 04 07	No	59.0	mixed metals	R4	M	Weighed	Offsite in Ireland	Hammond Lane Metal Co. ,WFP-DC-09-0013-01	Pigeon Hse rd Ringsend ,.,Dublin 4 ,.,Ireland
Within the Country	17 04 07	No	25.0	mixed metals	R4	M	Weighed	Offsite in Ireland	John Cullen t/a Multi Metal Recycling Ltd. ,WFP-WW-09-0014-01	Bollarney The Murrough,., Wicklow Co. Wicklow ,.,Ireland
Within the Country	19 12 02	No	33.0	ferrous metal	R4	M	Weighed	Offsite in Ireland	John Cullen t/a Multi Metal Recycling Ltd. ,WFP-WW-09-0014-01	Bollarney The Murrough,., Wicklow Co. Wicklow ,.,Ireland
Within the Country	19 12 02	No	40.0	ferrous metal	R4	M	Weighed	Offsite in Ireland	Clonmel Waste Disposal ,WM WP 08 02	23 Mitchell St ,.,Clonmel Co. Tipperary ,.,Ireland
Within the Country	19 12 10	No	89676.0	combustible waste (refuse derived fuel)	R1	M	Weighed	Offsite in Ireland	Wicklow Port Company Linited ,WFP - WW - 12-0007-03	North Quay ,.,Wicklow Town ,.,Ireland
Within the Country	19 12 10	No	22536.0	combustible waste (refuse derived fuel)	R1	M	Weighed	Offsite in Ireland	Drogheda Port Company,WFP-LH-11-0006-01	Harbourville Morningtonn Road,.,Drogheda,. ,Ireland
Within the Country	19 12 10	No	195.0	combustible waste (refuse derived fuel)	R1	M	Weighed	Offsite in Ireland	Padriag Thornton Waste Disposal,W0044-03	Kileen Rd,Ballyfermot,Dublin,D10,Ireland
Within the Country	19 12 10	No	2779.0	combustible waste (refuse derived fuel)	R13	M	Weighed	Offsite in Ireland	Stack R Warehouse ,WFP-DC-10-0019-01	Alexandra Road Dublin1 ,.,.,.,Ireland
Within the Country	19 12 10	No	377.0	combustible waste (refuse derived fuel)	R13	M	Weighed	Offsite in Ireland	Padraig Thornton Waste Disposal Ltd ,W0206	Dunboyne ,Co. Meath ,.,.,Ireland

Within the Country	20 01 01	No	25.0	paper and cardboard	R3	M	Weighed	Offsite in Ireland	HUHTAMAKI (LURGAN) LTD,P0061-04A	INN ROAD,DOLLINGSTOWN,LURGAN, CO ARMAGH BT66 7JN,Ireland			
Within the Country	20 01 36	No	5.0	discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R5	M	Weighed	Offsite in Ireland	Rehab Recycle ,WFP-DS.-10-0008-01	77 Broomhill Road Thallaght ,.,Dublin 22. ,.,Ireland	Rehab Recycle ,WFP-DS.-10-0008-01,77 Broomhill Road , Thallaght ,Dublin 22. ,Dublin 22. ,Ireland	77 Broomhill Road , Thallaght ,Dublin 22. ,Dublin 22. ,Ireland
Within the Country	20 01 38	No	1482.0	wood other than that mentioned in 20 01 37	R3	E	Weighed	Offsite in Ireland	Clonmel Waste Disposal ,WM WP 08 02	23 Mitchell St ,.,Clonmel Co. Tipperary ,.,Ireland			
Within the Country	17 02 04	Yes	17.0	glass, plastic and wood containing or contaminated with dangerous substances	R3	M	Weighed	Offsite in Ireland	ENVA Ireland Ltd ,WO184-01	Clonminam Industrial Estate ,.,Portlaoise Co Laois ,.,Ireland	ENVA Ireland Ltd ,WO184-01,Clonminam Industrial Estate Portlaoise Co Laois ,.,Portlaoise Co Laois ,.,Ireland	Clonminam Industrial Estate Portlaoise Co Laois ,.,Portlaoise Co Laois ,.,Ireland
Within the Country	20 01 38	No	79.0	wood other than that mentioned in 20 01 37	R3	M	Weighed	Offsite in Ireland	Milltown Waste Transfern Station,W0069	Ballyvirrane,.,.,.,Ireland			
Within the Country	20 01 38	No	9.0	wood other than that mentioned in 20 01 37	R3	M	Weighed	Offsite in Ireland	Nurendale Ltd T/A Panda Waste Services,W0261-01	Cappagh Road,.,Finglas,Dublin 11,Ireland			
Within the Country	20 03 01	No	472.0	mixed municipal waste	D1	M	Weighed	Offsite in Ireland	BORD na Mona Drehid Landfill ,W0201-02	.,.,Kildare ,.,Ireland			
Within the Country	20 03 01	No	176.0	mixed municipal waste	R1	M	Weighed	Offsite in Ireland	Indaver Ireland ,W0167-02	Carranstown ,., Duleek Co.Meath ,.,Ireland			
Within the Country	20 03 01	No	548.0	mixed municipal waste	D1	M	Weighed	Offsite in Ireland	Greenstar Holdings Ltd. ,W0165-02	Ballynagran Residual Landfill ,., Co. Wicklow ,.,Ireland			

Within the Country	20 03 01	No	4.0	mixed municipal waste	D1	M	Weighed	Offsite in Ireland	Nurendale Ltd T/A Panda Waste Services,W0261-01	Cappagh Road,.,Finglas,Dublin 11,Ireland
Within the Country	20 03 01	No	134.0	mixed municipal waste	R3	M	Weighed	Offsite in Ireland	Padriag Thornton Waste Disposal,W0044-03	Kileen Rd,Ballyfermot,Dublin,D10,Ireland
Within the Country	20 03 07	No	593.0	bulky waste	D1	M	Weighed	Offsite in Ireland	BORD na Mona Drehid Landfill ,W0201-02	.,.,Kildare ,.,Ireland
Within the Country	19 12 02	No	420.0	ferrous metal	R4	M	Weighed	Offsite in Ireland	Wilton Waste Recycling Limited,WFP-CN-09-0005-01	Kiffa Crosserlough ,.,.,.,County Cavan
Within the Country	19 12 12	No	8173.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R3	M	Weighed	Offsite in Ireland	Enrich Composting Facility ,WFP/MH/08/0001/01	.,.,Kilcock Co. Meath ,.,Ireland
Within the Country	19 12 12	No	4708.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R3	M	Weighed	Offsite in Ireland	Indaver Ireland ,W0167-02	Carranstown ,., Duleek Co.Meath ,.,Ireland
Within the Country	19 12 12	No	8111.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other	R3	M	Weighed	Offsite in Ireland	Miltown Composting Systems LTD,WP01902	Milltownmore,Fethard,Tipperary,.,Ireland

				than those mentioned in 19 12 11						
Within the Country	19 05 01	No	0.0	non-composted fraction of municipal and similar wastes	R3	M	Weighed	Offsite in Ireland	Padraig Thornton Waste Disposal Limited ,W0195-01	Kilmainhamwood Compost Ballynalurgan ,., Kilmainhamwood Kells,.,Ireland
Within the Country	19 12 05	No	509.0	glass	R5	M	Weighed	Offsite in Ireland	Murphy Environmental Hollywood LTD,W0129-03	Hollywood,Great Nags Head,The Naul,Dublin,Ireland
Within the Country	19 12 05	No	311.0	glass	R5	M	Weighed	Offsite in Ireland	Glassco Recycling LTD,WFP-KE-08-0357-01	.,Unit 4,Osbertown Buisness Park,Kildare,Ireland
Within the Country	20 02 01	No	253.0	biodegradable waste	R3	M	Weighed	Offsite in Ireland	Enrich Composting Facility ,WFP/MH/08/0001/01	.,.,Kilcock Co. Meath ,.,Ireland
Within the Country	20 02 01	No	72.0	biodegradable waste	R3	M	Weighed	Offsite in Ireland	Padraig Thornton Waste Disposal Limited ,W0195-01	Kilmainhamwood Compost Ballynalurgan ,., Kilmainhamwood Kells,.,Ireland
Within the Country	20 02 01	No	16.0	biodegradable waste	R3	M	Weighed	Offsite in Ireland	Green Energy Recycling Ltd,WFP-FG-11-0008-01	Cappogue Industrial Park,.,Ballycoolin Rd,Dublin 11,Ireland
Within the Country	17 09 04	No	292.0	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	D1	M	Weighed	Offsite in Ireland	Nurendale Ltd T/A Panda Waste Services,W0261-01	Cappagh Road,.,Finglas,Dublin 11,Ireland

Within the Country	17 09 04	No	30.0	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	D1	M	Weighed	Offsite in Ireland	Padraig Thornton Waste Disposal Ltd ,W0206	Dunboyne ,Co. Meath ,.,.,Ireland
Within the Country	19 12 12	No	1616.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R3	M	Weighed	Offsite in Ireland	Oxigen Environmental,w0 152-03	Merrywell Industrial Estate ,Robinhood Road,Ballymount, Dublin22,Ireland
Within the Country	20 01 38	No	114.0	wood other than that mentioned in 20 01 37	R3	M	Weighed	Offsite in Ireland	Padraig Thornton Waste Disposal Ltd ,W0206	Dunboyne ,Co. Meath ,.,.,Ireland
Within the Country	02 07 04	No	25.0	materials unsuitable for consumption or processing	R3	M	Weighed	Offsite in Ireland	Padraig Thornton Waste Disposal Limited ,W0195-01	Kilmainhamwood Compost Ballynalurgan ,., Kilmainhamwood Kells,.,Ireland
Within the Country	20 01 40	No	90.0	metals	R4	M	Weighed	Offsite in Ireland	Wilton Waste Recycling Limited,WFP-CN-09-0005-01	Kiffa Crosserlough ,.,.,.,County Cavan
Within the Country	19 12 12	No	297.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R3	M	Weighed	Offsite in Ireland	Padraig Thornton Waste Disposal Limited ,W0195-01	Kilmainhamwood Compost Ballynalurgan ,., Kilmainhamwood Kells,.,Ireland

Within the Country	19 12 12	No	150.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R3	M	Weighed	Offsite in Ireland	Padraig Thornton Waste Disposal Limited ,W0195-01	Kilmainhamwood Compost Ballynalurgan ,., Kilmainhamwood Kells,.,Ireland
Within the Country	19 12 12	No	1412.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R3	M	Weighed	Offsite in Ireland	Enrich Composting Facility ,WFP/MH/08/0001 /01	.,.,Kilcock Co. Meath ,.,Ireland