Cork



Tel. [0 2 1] 4 3 2 1 5 2 1

Fax. [0 2 1] 4 3 2 1 5 2 2

ANNUAL ENVIRONMENTAL REPORT GREENSTAR LIMITED MATERIALS RECOVERY FACILITY MILLENNIUM BUSINESS PARK LICENCE NO. W0183-01 JANUARY 2010 – DECEMBER 2010

Prepared For: -

Greenstar Ltd.,
Unit 6,
Ballyogan Business Park,
Ballyogan Road,
Sandyford,
Dublin 18.

Prepared By: -

O' Callaghan Moran & Associates, Granary House, Rutland Street, Cork.

30th March 2011

Project	Annual Environmental Report 2010					
Client	Greenstar W0183-01					
Report No	Date	Status	Prepared By	Reviewed By		
0480605	16/03/2010	Draft	Martina Gleeson PhD	Michael Watson MA.		
0480605	30/03/2011	Final	Martina Gleeson PhD	Michael Watson MA.		

TABLE OF CONTENTS

PAGE

1. IN	NTRODUCTION	1
2. SI	ITE DESCRIPTION	2
2.1 2.2 2.2	SITE LOCATION AND LAYOUT	2 2 2
3. EN	MISSION MONITORING	
3.1 3.2 3.3 3.4	SURFACE WATER MONITORING WASTEWATER MONITORING NOISE MONITORING DUST MONITORING	5 6
4. SI	ITE DEVELOPMENT WORKS	11
4.1 4.2 4.3	SPECIFIED ENGINEERING WORKSSUMMARY OF RESOURCE & ENERGY CONSUMPTIONBUND INTEGRITY TESTING	11
5. W	VASTE RECEIVED AND CONSIGNED FROM THE FACILITY	12
6. EN	NVIRONMENTAL INCIDENTS AND COMPLAINTS	16
6.1 6.2	INCIDENTSREGISTER OF COMPLAINTS	16
7. EN	NVIRONMENTAL DEVELOPMENT & CONTROL	17
7.1 7.2 7.2	2.1 Schedule of Objectives 20102.2 Schedule of Objectives 2011	
8. O'	THER REPORTS	23
APPEN APPEN APPEN APPEN	NDIX 2 - Complaints Register NDIX 3 - Procedures List	

1. INTRODUCTION

This is the 2010 Annual Environmental Report (AER) for the Greenstar Ltd. (Greenstar), Materials Recovery Facility (MRF) at Millennium Business Park, Grange, Ballycoolin, Dublin 11. The Waste Licence (Register No.W0183-01) for the facility was issued on 15th April 2005 and the facility began accepting waste in mid July 2006.

This AER covers the period from January 2010 to December 2010. The content is based on Schedule G of the Waste Licence and the report format follows guidelines set in the "Guidance Note for Annual Environmental Report" issued by the Environmental Protection Agency (Agency)¹.

1

¹ EPA (Environmental Protection Agency) 1999 Waste Licensing – Draft Guidance on Environmental Management Systems and Reporting to the Agency

2. SITE DESCRIPTION

2.1 Site Location and Layout

The facility occupies 4.45 hectares (ha) in the east of the Millennium Business Park, Ballycoolin, Dublin 11. It is intended to develop the facility in a number of Phases. Phases 1 and 2 opened in July 2006 and involved the construction of the Materials Recovery Facility (MRF) building and supporting ancillaries. The licence allows for the construction of a biowaste treatment building but this has not yet been constructed.

2.2 Waste Management Activities

The facility is currently licensed to accept and process 220,000 tonnes of waste per annum, comprising commercial/industrial non-hazardous waste, municipal waste and construction and demolition wastes. All waste processing takes place inside the waste transfer building, as specified in Condition 4.1 of the Licence

2.2.1 Waste Types & Processes

The facility is licensed to accept the following waste types and quantities, as specified in Schedule A of the Licence

- Municipal Waste (100,000 tonnes),
- Commercial & Industrial (90,000 tonnes),
- Construction & Demolition (30,000 tonnes).

No hazardous wastes or liquid waste are accepted at the facility.

Key processes carried out include: -

- Baling and Compaction of Commercial & Industrial (C&I) waste,
- Separation of C&I waste into different waste streams (paper, cardboard, glass, metal, organic),
- Screening of C&D waste into different waste streams (metals, concrete, bricks, tiles, plaster board, timber etc).

C&I Waste

C&I waste is off loaded in dedicated bays inside the MRF building. Pre-segregated wastes are off loaded in separate bays from the mixed waste. On the tipping floor the waste is inspected for unsuitable materials, which are immediately removed to the waste quarantine area.

The pre-segregated material is then moved to storage bays from where it is loaded onto trailers for removal off-site. The mixed waste is initially sorted using a mechanical grab to remove large items such as timber and metal. Such items are removed to the appropriate storage/handling areas inside the building. The remaining waste is separated using the automated processing equipment (which includes some manual picking) into the different waste streams (paper, cardboard, plastic, wood, metal, fines and stone). The recovered materials are sent to authorised facilities for further recycling and the residual waste to landfill.

Construction & Demolition Waste

C&D waste is off loaded inside the MRF building. Pre-segregated wastes are off loaded in separate bays from the mixed waste. On the tipping floor the waste is inspected for unsuitable materials, which are immediately removed to the waste quarantine area.

The pre-segregated material is then moved to storage bays from where it is loaded onto trailers for removal off-site. The mixed waste is initially sorted using a mechanical grab to remove large items such as timber and metal. Such items are removed to the appropriate storage/handling areas inside the building. The remaining waste is separated using the automated processing equipment (which includes some manual picking) into the different waste streams (paper, cardboard, plastic, wood, metal, fines and stone).

2.2.2 Plant List

A list of the plant in use at the facility is given in Table 2.1. The plant provides 100% duty and 50% standby for waste processing.

Table 2.1 On-Site Machinery

No.	Plant	Model	Operational Capacity tpd	Standby Capacity tpd
1	Synmet C&D process line	Synmet	1200	750
1	Synmet C&I process line	Synmet	1200	750
1	C&I Loading grab	Fuchs MHL 340	2160	1710
1	C&I Loading grab	Fuchs MHL 335	2160	1710
1	C&D Loading shovel	Volvo L120E	8640	7440
1	Output area Loading shovel	Volvo L150F	3024	2124
1	Output area Loading grab	Liebherr 924	972	672
1	Compactor bin RORO shunter		216	88

3. EMISSION MONITORING

The monitoring required for Phases 1 and 2 includes surface water, wastewater, dust and noise monitoring. The monitoring locations are shown on Figure 3.1. As per the Licence, monitoring results are included in reports submitted to the Agency at quarterly intervals. An overview of the results of the monitoring is presented in this Section.

3.1 Surface Water Monitoring

Schedule D of the Licence requires that surface water monitoring is carried out quarterly at two monitoring points (SW-1 and SW-2) as shown on Figure 3.1. The surface water drainage system serves the paved area of the site and roofed areas. As only Phase 1 & 2 of the facility has been constructed, approximately 50% of the site is currently paved.

During the monitoring period there was only flow in SW-1 on one occasion, in Q4 2010. Samples were only collected from SW-2 in Q2 and Q4 during the reporting year. At all other times the monitoring locations were dry. The sampling and analysis was carried out in accordance with recognised quality assurance and control procedures.

The trigger levels set for BOD, total suspended solids and mineral oils were not exceeded and the discharge was in compliance with the licence conditions. The results are included on Tables 3.1 and 3.2.

Table 3.1 Surface Water Monitoring Results 2010 SW-1

Parameter	Units	Q1 '10	Q2 '10	Q3'10	Q4 '10	Trigger Levels
рН	pH Units	Dry	Dry	Dry	7.63	N/A
Conductivity	mS/cm	Dry	Dry	Dry	0.334	N/A
Temperature	°C	Dry	Dry	Dry	13	N/A
Ammoniacal Nitrogen	mg/l	Dry	Dry	Dry	1.64	N/A
BOD	mg/l	Dry	Dry	Dry	3	25
COD	mg/l	Dry	Dry	Dry	15	N/A
Total Suspended Solids	mg/l	Dry	Dry	Dry	10	35
Oils, Fats & Greases	mg/l	Dry	Dry	Dry	< 0.01	N/A
Mineral Oils	mg/l	Dry	Dry	Dry	< 0.01	5

Table 3.2 Surface Water Monitoring Results 2010 SW-2

						Trigger
Parameter	Units	Q1 '10	Q2 '10	Q3 '10	Q4 '10	Levels
рН	pH Units	Dry	8.14	Dry	8.07	N/A
Conductivity	mS/cm	Dry	0.177	Dry	0.364	N/A
Temperature	°C	Dry	12.2	Dry	13	N/A
Ammoniacal Nitrogen	mg/l	Dry	0.15	Dry	5.49	N/A
BOD	mg/l	Dry	3	Dry	8	25
COD	mg/l	Dry	14	Dry	18	N/A
Total Suspended Solids	mg/l	Dry	<10	Dry	15	35
Oils, Fats & Greases	mg/l	Dry	< 0.01	Dry	< 0.01	N/A
Mineral Oils	mg/l	Dry	< 0.01	Dry	< 0.01	5

3.2 Wastewater Monitoring

Schedule D of the Licence requires the sampling of the wastewater discharge (recovered wastes storage bay floor wash downs and vehicle wash) to the municipal sewer. The wastewater sampling is carried out bi-monthly at location SE-1, as shown on Figure 3.1.

In the reporting period floor wash downs were not considered necessary. Vehicles are washed at the external truck wash facility on an intermittent basis as necessary. The wash water is directed to a silt trap and then to a petrol/oil interceptor before discharging to the municipal sewer.

OCM collected five waste water samples in 2010, there was no flow at the monitoring location in December 2010 and therefore a sample could not be taken. The Emission Limit Values were not exceeded during the reporting period and the discharge was in compliance with the licence conditions. The results are shown on Table 3.2.

Table 3.2 Wastewater Monitoring Results 2010 SE-1

Parameter	Units	Mar '10	Apr '10	Jun '10	Aug '10	Oct '10	Dec' 10	Emission Limit
рН	pH Units	7.63	7.84	8.44	7.42	8.08	Dry	6 – 10
Temperature	°C	13.5	8.7	13.4	15.1	14	Dry	42
Ammoniacal Nitrogen	mg/l	1.46	1.42	1.87	34.97	77.76	Dry	100
BOD	mg/l	185	110	72	419	271	Dry	6,000
COD	mg/l	1010	460	21	2290	437	Dry	12,000
Total Suspended Solids	mg/l	102	250	10	448	<10	Dry	2,500
Oils, Fats & Greases	mg/l	<0.01	0.066	<0.01	<0.01	<0.01	Dry	100
Orthophosphate	mg/l	0.74	< 0.06	0.42	11.28	9.02	Dry	100
Surfactants	mg/l	2.2	0.51	0.3	2.5	0.5	Dry	100
Sulphate	mg/l	257.43	147.87	93.46	85.1	41.58	Dry	1,000

3.3 Noise Monitoring

The annual noise survey was carried out in August 2010 in accordance with Schedule D of the Licence. The full monitoring report was submitted to the Agency on the 13th September 2010. The monitoring locations included those specified in the Licence (N-1, N-2 and N-3) and one off-site noise sensitive location NSL-1 shown on Figures 3.1 and 3.2. The survey was conducted when the site was fully operational and confirmed that noise emissions complied with the Licence conditions and that the facility is not impacting negatively on the nearest sensitive receptors. A summary of the noise results is shown on Table 3.4.

The $L_{Aeq\ 30\ min}$ level recorded at the offsite station NSL1 was 68 dB, due chiefly to local road traffic which was almost continuous and dominant. Emissions from the façade vents on the Greenstar materials recovery building were slightly audible, with their contribution estimated at less than 50 dB. Therefore noise emissions from the facility were less than the 55 dB limit set in the Licence at NSL1.

Table 3.4Noise Monitoring Results 2010

Station	Time	LAeq 30 min dB	LAF10 30 min dB	LAF90 30 min dB	Specific Level* dB	Noise audible
N1	1434- 1504	52	55	46	46	No site emissions audible apart from vents on upper facade, audible continuously at moderate level. Frequent aircraft noise dominant when present. Road traffic noise audible to W. Bird song/calls and rustling vegetation. Commercial noise also audible to W.
N2	1441- 1511	62	64	60	62	Emissions from vents on upper facade dominant. Intermittent truck movements around yard and through weighbridge audible. Aircraft noise significant.
N3	1359- 1429	73	72	68	73	Noise dominated by continuous emissions from vents in upper facade. No other emissions audible apart from occasional trucks manoeuvring nearby. No offsite emissions audible.
NSL1	1533- 1603	68	72	50	<50	Vent emissions on upper facade slightly audible continuously. Reversing alarm(s) audible at premises to N, source unidentifiable. Frequent passing road traffic dominant. Aircraft significant.

^{*} Specific level: Sound pressure level contribution considered attributable to facility.

3.4 Dust Monitoring

Dust monitoring was carried out on three occasions at four on-site locations (DS-01, DS-02, DS-03 and DS-04) in February, July and August 2010. The Licence requires two of these monitoring events be carried out between May and September. The results of the monitoring are included on Table 3.5.

Out of the twelve recorded levels in 2010 there was just one exceedence of the deposition limit set in the licence $(350 \text{mg/m}^2/\text{day})$ which occurred in February at DS-03 (449.3 mg/m²/day). All the other levels recorded were below the deposition limit set in the licence. The Agency was informed of the exceedance in a letter dated the 16^{th} April 2010.

Gauge DS-03 is located at the southern boundary of the facility adjacent to a pre-cast cement production facility. It is considered likely that the activities on this adjoining property, which include stockpiling aggregates in open areas, have contributed to the elevated levels at DS-03. This result is consistent with previous dust monitoring carried out at this location since the neighbouring activities began in 2006.

In general the dust monitoring programme has shown that the facility is not a significant source of dust.

Table 3.4 Dust Monitoring Results 2010

Monitoring Location	Units	February '10	July '10	August '10	Deposition Limit Value
DS-01	mg/m²/day	38.8	80.4	35.4	350
DS-02	mg/m ² /day	29.7	247.4	47.7	350
DS-03	mg/m²/day	449.3	194.6	281.9	350
DS-04	mg/m²/day	38.2	49.4	108.8	350

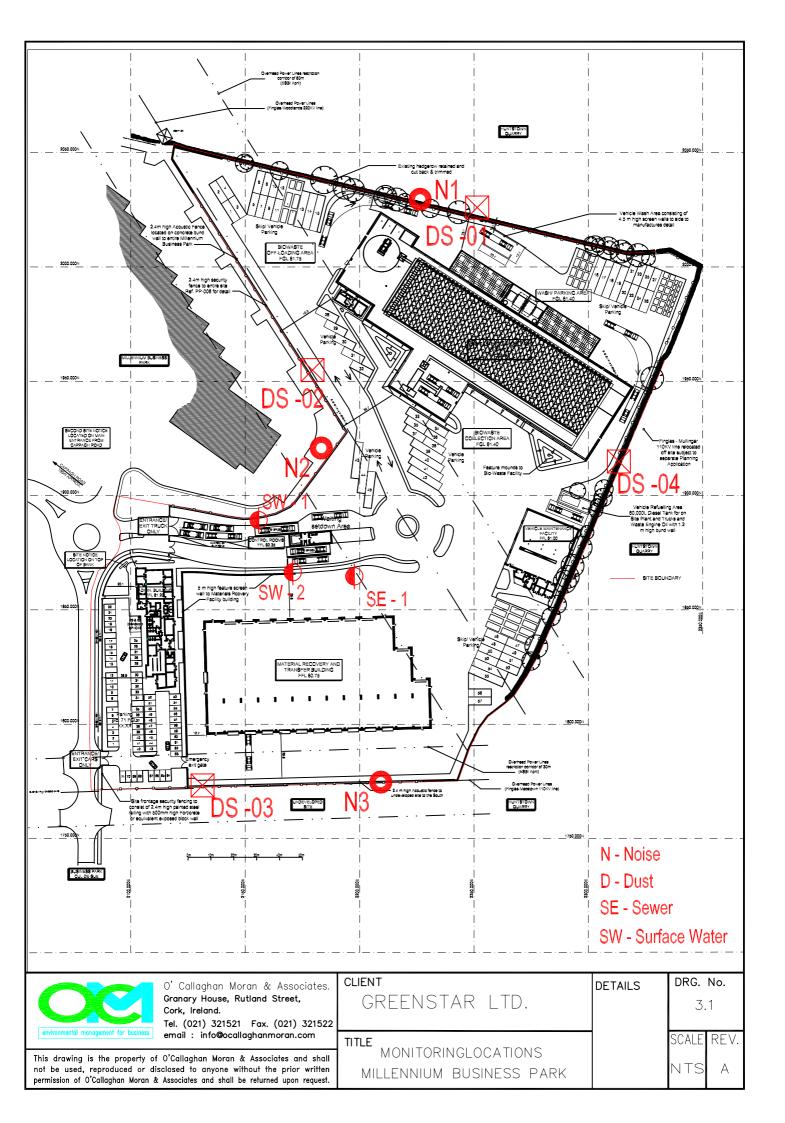


Figure 3.2 Noise Sensitive Location



4. SITE DEVELOPMENT WORKS

4.1 Specified Engineering Works

In December 2009 Greenstar submitted a Specified Engineering Works proposal to the Agency for an extension to the processing lines to enable production of Solid Recovered Fuel (SRF) from the C&I and C&D waste streams. Approval was received and the SRF line was commissioned in August 2010. The SRF has a processing capacity of 10 tonnes per hour.

There are no engineering works planned for 2011. The Agency will be notified of all engineering works as per Condition 3.2 of the Licence.

4.2 Summary of Resource & Energy Consumption

Table 4.1 presents an estimate of the resources used on-site during the reporting period.

Table 4.1 Estimate of Resources Used On-Site 2010

Resources	Quantities
Diesel (green)	79,023 litres
Electricity	1,292,137 Units
Hydraulic, Transmission & Engine Oil	860 litres
Truck Wash Detergent	320 litres
Mains Water	2,500 m ³ *
Anti Freeze	80 litres
Natural Gas	53,405 Units

^{*} Mains water usage is an estimate as meter not in use.

4.3 Bund Integrity Testing

Condition 3.13.3 of the Licence requires that tank, drum, pipeline and bund testing is to be carried out every three years. The bunds were tested in May 2009 and the drains in January 2010 and were passed fit for purpose. The reports were included in the AER for 2009. Testing will be carried out again in 2012.

5. WASTE RECEIVED AND CONSIGNED FROM THE FACILITY

Table 5.1 shows the total quantities of waste received and consigned from the facility in 2010. Table 5.2 shows the total quantities of waste received and consigned in 2009. Table 5.3 shows the quantities of waste received and consigned in previous years. A breakdown of the waste types is provided in accordance with the European Waste Catalogue and Hazardous Waste list.

The total quantity of waste received was 74,696.12 tonnes. The total waste consigned was 68,869.19 tonnes. Approximately 2,200 tonnes of stone remained on site at the end of 2010 for use in site development works. The remaining difference (3,626.93 tonnes) is due to other waste which remained on site at the end of 2010 (approximately 200 tonnes) which will be consigned in 2011, the presence of rainwater in the open top skips brought on-site during the reporting period estimated at approximately 2,000 tonnes and also the possibility of discrepancies between the two weighbridges over the year which accounts for the final 1.9% difference.

The recovery rate for the facility is estimated at 54%. All the wastes consigned from the site went to recovery and disposal facilities agreed with the Agency.

Table 5.1 Waste Received & Consigned 2010

	vaste Received & Consigned 2010		
EWC	Description	Waste In	Waste Out
07 05 13*	Potentially contaminated MSW		117.58
10 01 01	Ash	1.00	
10 03 05	LDF Alumina	10.00	
15 01 01	Cardboard & Paper Packaging	769.00	659.30
15 01 02	Plastic Packaging	120.00	18.00
15 01 03	Wooden Packaging	607.00	41.62
15 01 06	Mixed Packaging	3,813.00	3,546.23
15 01 07	Glass Packaging	54.00	
16 01 03	Tyres	6.00	
17 01 01	Concrete from C&D Waste	7,000.00	
17 04 11	Cables from C&D Waste not	1.00	
17 04 11	containing dangerous substances	1.00	
17 05 04	Soil & Stone from C&D Waste	16.00	56.00
19 09 02	Sludge		2.00
19 09 05	Resin	6.00	
19 12 01	Paper & Cardboard	25.00	
19 12 07	Processed Wood	498.00	3,475.26
19 12 09	Minerals from mechanical treatment	3.00	18,999.15
19 12 10	RDF Combustible		51.38
19 12 12	Mixed Residual Waste from mechanical treatment	21,318.00	1,067.40
20 01 01	Paper & Cardboard	22.00	5.12
20 01 02	Glass	8.00	
20 01 08	Commercial Food Wastes	1,068.00	2,686.00
20 01 35*	WEEE	0.50	
20 01 38	Wood from municipal sources	1,210.00	2,875.00
20 01 39	Plastic from municipal sources	4.00	
20 01 40	Metal from municipal sources	291.00	2,207.19
20 01 99	Gas Cylinders		2.00
20 02 01	Biodegradable garden & park waste	4,809.00	2,424.00
20 03 01	Mixed Residual Waste	4,723.00	
20 03 07	Bulky Waste	28,312.00	30,635.36
	Total Received	74,694.50	
	Total Consigned		68,868.59
	Total Recovered		37,291.19
	Total Disposed		31,577.40
	Recovery Rate		54.15%

Table 5.2 Waste Received & Consigned 2009

EWC	Description	Waste In	Waste Out
10 01 01	Ash	4.67	
10 03 05	LDF Alumina	7.41	
13 02 08*	Waste Oil		1.60
15 01 01	Cardboard Packaging	365.51	471.42
15 01 02	Plastic Packaging	3.96	
13 01 02	Polystyrene	2.14	
	Pallets	14.07	49.76
15 01 03	Timber Packaging	0.80	
	Wood	239.48	
	Wooden Packaging	508.61	
15 01 06	Mixed Packaging	2,703.88	2,706.77
16 05 04	Gas Cylinders		10.10
17 01 07	C&D Inert Mixed	7,115.30	3,896.11
17 05 04	C&D Inert Mixed	4,267.98	234.58
17 03 04	Soil & Stones	576.29	8,059.08
19 09 05	Resin	16.34	•
19 09 02	Sludge	1010	5.04
19 12 04	Rubber		9.00
19 12 07	Wood	350.58	2,369.56
10 12 00	Fines C&I		45.22
19 12 09	Fines C&D		21,424.92
10 12 12	C&I Dry Mixed	13,279.58	29,249.52
19 12 12	MSW Municipal Mixed	47.40	100.44
20.01.01	Recy Paper	8.11	
20 01 01	Cardboard & Paper	10.75	
20 01 02	Glass	2.64	
20 01 08	Kitchen and Canteen Waste	12.38	
20 01 08	Textile	7.10	
20 01 36*	Rec Electronics & Electrics	6.84	
			<i>5.462.62</i>
20 01 38	Wood	1,350.40	5,462.63
20 01 40	Metal	381.88	3,111.51
20 02 01	Green Biodegradable Waste	181.37	
	Green Mixed	5.66	
20 03 01	MSW Municipal Mixed	18,392.50	
20 03 07	C&I Dry Mixed	29,605.94	18.58
	•		
	Total Received	79,469.57	
	Total Consigned		77,224.94
	Total Recovered		48,299.12
	Total Disposed		28,925.82
	Recovery Rate		62.54%
	Recovery Rate		

Table 5.3 Waste Received & Consigned

	2009	2008	2007	2006
Total Received	79,469.57	133,813.88	167,056.84	79,570.21
Total Consigned	77,224.94	129,366.26	161,828.21	80,725.68
Total Recovered	48,299.12	83,430.97	109,492.71	53,646.88
Total Disposed	28,925.82	45,935.21	52,335.5	27,078.80
Recovery Rate	62.54%	64.49%	67.66%	66.5%

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

The routine monitoring programme identified one incident during the February monitoring event, associated with an exceedance of the dust deposition limit as described in Section 3.4. The Agency was informed of the exceedance by letter in accordance with Condition 10.2.a and 10.2.b of the Licence.

The second incident also reported to the Agency occurred in relation to a fire at the facility on April 26th. This fire was confined to a hopper which feeds the C&I waste shredder. The Agency was notified of the incident and there was no emission with the potential to cause any environmental pollution as a consequence of this incident. A copy of the incident report is included in Appendix 1.

6.2 Register of Complaints

Greenstar maintains a register of complaints received in accordance with Condition 9.4 of the waste licence. One complaint in relation to odour, noise, dust and birds at the facility was received in 2010. A copy of the complaints register which includes a description of the actions taken by Greenstar is included in Appendix 2.

7. ENVIRONMENTAL DEVELOPMENT & CONTROL

7.1 Environmental Management Programme Report

In March 2010, the facility attained ISO 14001/OHSAS 18011 certification. The facility is externally audited once per year and internally audited twice per year. The management programme is encompassed in the Environmental Management System (EMS) for the facility and contains a schedule for achieving objectives and targets and designates responsibility and timeframes for achieving those targets. The EMS is reviewed annually as part of the annual management review meeting during which senior management attend. The schedule of Objectives and Targets, including their status for 2010 (Table 7.1), as well as the proposed Objectives and Targets for 2011 (Table 7.2) are presented below. An index of procedures used at the facility is included in Appendix 3.

7.1.1 Site Management Structure

Management and Staffing structure: -

Name: Aidan Shanahan

Responsibility: Head of MRF Operations

Experience: 8 years experience waste management experience; has completed the

FÁS waste management course.

Name: Simon Kelly

Responsibility: Engineering Manager

Experience: 6 years experience; has completed the FÁS waste management course.

Name: David Sweeney

Responsibility: Site Operations Manager

Experience: 3 years experience; has completed the FÁS waste management course.

7.1.2 Staff Training

No staff training was required in 2010. Staff training will be carried out as necessary in 2011.

7.2 Environmental Management Programme

7.2.1 Schedule of Objectives 2010

The objectives that were achieved during this reporting period are outlined in Table 7.1. Details on the progress made are also included on the table and an evaluation of what has been achieved to date is presented below.

Objective 1 – Awareness and Training

No training was required in 2010. Training will be carried out as needed in 2011.

Objective 2 – Energy & Resource Consumption

Energy and resource usage was summarised quarterly and this has resulted in a reduction in the amount of electricity used at the facility when compared to 2009.

Objective 3 – Review & Assess the Effectiveness of Nuisance Control Procedures

All procedures were reviewed during the reporting period and a copy of the procedures index is included in Appendix 3. Nuisance control procedures worked well again in 2010. In addition to the normal nuisance control measures including external pest control contractor and routine site maintenance programme bird control procedures were updated in 2010 to include the use of a bird kite at the facility. The monitoring programme has shown that the facility is not a significant source of nuisance.

Objective 4 – Pollution Prevention

The routine environmental monitoring has confirmed that the facility is not causing pollution in the local environment.

Objective 5 – Nuisance Control

Bird control procedures were updated in 2010, to include the use of a bird kite at the facility. Odour monitoring is carried out daily.

Objective 6 – Hazardous Waste Management on site

A contract has been set up with a hazardous waste contractor for the removal of hazardous waste such as waste oils generated at the facility or inadvertently delivered to the facility such as batteries etc. Materials Safety Data Sheets have been obtained for all hazardous materials used in onsite maintenance.

Objective 7 - Recycling rate/landfill diversion

While the recycling rate at the facility has decreased since 2009, the slight decrease is due to the acceptance of a broader range of C&I waste which consists of a less amount of recyclable waste. An SRF production line was installed in 2010.

7.2.2 Schedule of Objectives 2011

A schedule of targets and objectives for 2011 has been set by the management of the facility. These objectives are outlined in Table 7.2.

7.3 Communications Programme

Greenstar are committed to setting the standard in waste management and ensuring environmental compliance in all operations. In addition, Greenstar's Environmental Policy makes a specific commitment to make the environmental policy and records available to the public and interested parties.

To this end Greenstar has drawn up a Communications Programme, which details how members of the public are facilitated in accessing environmental information at the facility.

Records available for public inspection on site include:-

- Environmental Policy,
- Waste Licence,
- Licence Application and Review documentation,
- Monitoring Records,
- Complaints File,
- EPA Correspondence File.

Opening Times for Inspection of Records are from 10 am - 4 pm.

Visits to the site should be arranged in advance by ringing the Facility Manager or Supervisor at 1890 600 900.

Table 7.1 Objectives and Targets for 2010

No	Objective	Target	Responsibility	Status
1	Awareness and Training	Continue to ensure that appropriate training is carried out specific to all site personnel as per the Company's established Training Matrix.	Facility Manager	Overdue
	Training	Spill training, inclusive of a spill scenario to be carried out.		Not carried out
2	Energy & Resource Consumption	Summarise energy and resource usage on a quarterly basis with a view to reducing consumption	Facility Manager	Completed
3	Review and Assess the Effectiveness of Nuisance Control Procedures	Continually review and assess all nuisance control procedures to ensure minimal impact on the surrounding area.	Facility Manager	Completed
4	Pollution Prevention	Strive to ensure that monitoring results comply with the licence limits and investigate any exceedances of emission limit values. Continue to ensure the integrity and maintenance of all drainage infrastructure.	Facility Manager	Completed
5	Nuisance control	Introduce bird control measures Monitor odour daily.	Facility Manager	Completed
6	Hazardous Waste Management on site	Obtain Material Safety Data Sheets (MSDS) for all hazardous materials used on site. Set up contract with hazardous waste contractor for the removal of hazardous waste generated through maintenance.	Facility Manager	Completed
7	Recycling rate/landfill diversion	Introduce new equipment to increase landfill diversion, SRF production	Facility Manager	Completed

Table 7.2 Schedule of Objective and Targets 2011

No	Objective	Target	Responsibility	Timescale
1	Awareness and Training	Continue to ensure that appropriate training is carried out specific to all site personnel as per the Company's established Training Matrix.	Facility Manager	Q2 2011
2	Review and Assess the Effectiveness of Nuisance Control Procedures	Continually review and assess all nuisance control procedures to ensure minimal impact on the surrounding area.	Facility Manager	Q4 2011
3	Pollution Prevention	Strive to ensure that monitoring results comply with the licence limits and investigate any exceedances of emission limit values.	Facility Manager	Q4 2011
4	Energy Consumption	Retrofit energy efficient lighting inside the MRF building. Investigate the night load for the MRF with the target of reducing this to approximately 50 kW	Facility Manager	Q4 2011

7.4 Report Financial Provision

Greenstar has accrued over €3,000,000 in funds, to provide for any potential environmental liabilities at this facility. Greenstar also has adequate insurance cover for environmental liabilities to €6,350,000 for any one occurrence, which will apply to "sudden identifiable and unintended incidents".

7.5 Nuisance Controls

Greenstar has contracted a vermin control company Pestguard to carry out nuisance control at the facility. Pestguard undertake a 6 weekly review of the vermin activity on-site along with an inspection of the bait traps that are located throughout the facility. Bird control procedures were updated in 2010 to include the use of a bird kite at the facility.

7.6 European Pollutant Release and Transfer Register Regulation

Under the European Pollutant Release and Transfer Register Regulation (EC) No. 166/2006 Greenstar are required to submit information annually to the Agency. A copy of the information submitted to the Agency via the web-based data reporting system is included in Appendix 4.

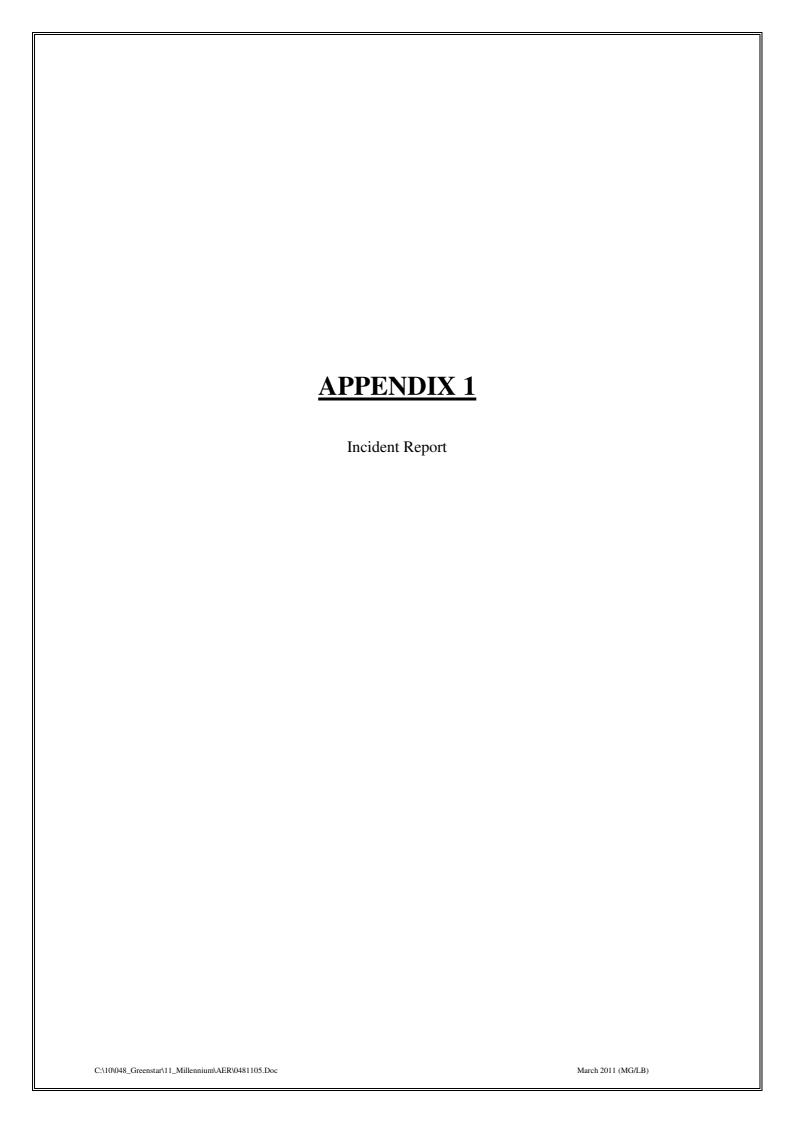
7.7 Rainwater and Wastewater Volumes

No rainwater was reused at the facility during the reporting period as the grey water reuse system has been de-commissioned. It is not possible to give an exact figure for the amount of wastewater produced during the reporting period. It is estimated that approximately 1.62 tonnes of wastewater/sludge was removed off site to Rilta Environmental in 2010 from the bund, interceptors and drainage lines as part of the sites routine cleaning programme. Approximately 1,000 m³ of water was used by the truck wash during the year.

Wastewater discharges to the municipal sewer serving the industrial estate and ultimately to a waste water treatment plant operated by Fingal County Council.

8. OTHER REPORTS

No other reports were submitted to the Agency in 2010.





Non Conformance, Incident Report Form

Doc. No.: SP 021	Revision No.: 01	Issue Date:	16 th October 2009
Approved By:	Malcolm Dowling - Group Environmental Manager	Page 1 of 2	
	Oliver Callan - Group H&S Manager		

INCIDENT CLASSIFICATION:

JAME:	Roe Healy and Alvydas Samsonas
IAIME:	RUE HEALV ALIU ALVVUAS SALLISULIAS

DATE: 26/04/2010

<u>TIME</u>: 07:30

WITNESS(ES):

<u>DEPARTMENT (Outlet)</u>: MILLENIUM PARK

LOCATION: C & I

OFF SITE ADDRESS:

SITE CONTACT:

INCIDENT (key words): Smoke and flames in the C&I Shredder Roe Healy is Machine Operator and Alyvdas Samsonas is in Control room

ACTIVITY:

NATURE OF DAMAGE AND/OR INJURY:

INVESTIGATED BY: <u>Jimmy White</u>

DESCRIPTION OF EVENTS:

At approximately 7.30 R.H. noticed smoke coming from the C&I shredder. A.S. and J.W. went to investigate the area beside the shredder. Both could smell smoke. J.W. turned off the power to the shredder and turned on the fire suppression. A.S. turned on a valve and water started to come out the top of the shredder and evacuated the building. J.W. and Irmantas Pauza got a FHR and started to wet down the rubbish on the top of the shredder. J.W. called for R.H. and A.S. to set up a Fire Hydrant. The fire could not be got under control and J.W. told the last members of staff to leave the building.

IMMEDIATE ACTION:

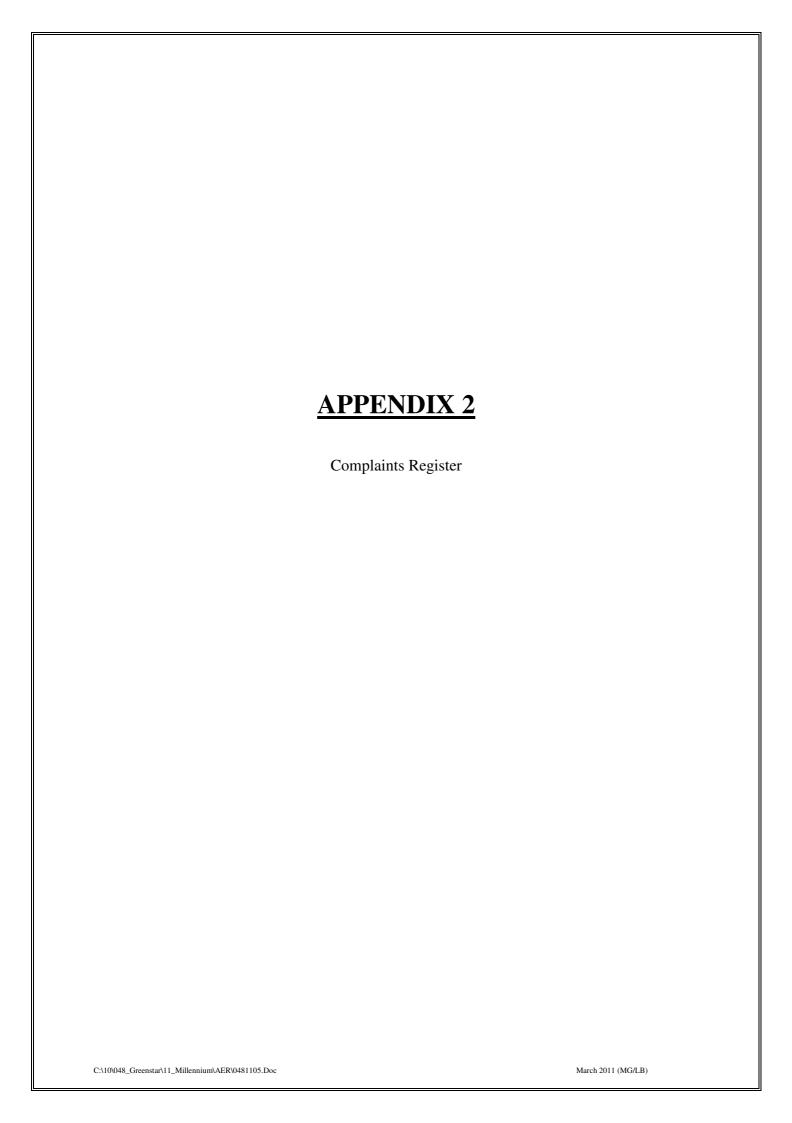
DFB WERE PHONED AT 07.37 AND GOT ON SITE ABOUT 5 OR 10 MINUTES AFTER THE CALL. DFB WERE SATISFIED THAT THE FIRE WAS COMPLETELY OUT AT ABOUT 09.10. OLIVER CALLAN ASKED FOR THE BUILDING TO BE LEFT FOR ABOUT HALF AN HOUR TO CLEAR SMOKE, BEFORE REENTERING THE BUILDING. THE WEIGHBRIDGE OPERATOR CLOSED THE SITE TO TRAFFIC COMING INTO THE SITE.

I	RE	ATI	ΜE	NT:



Non Conformance, Incident Report Form

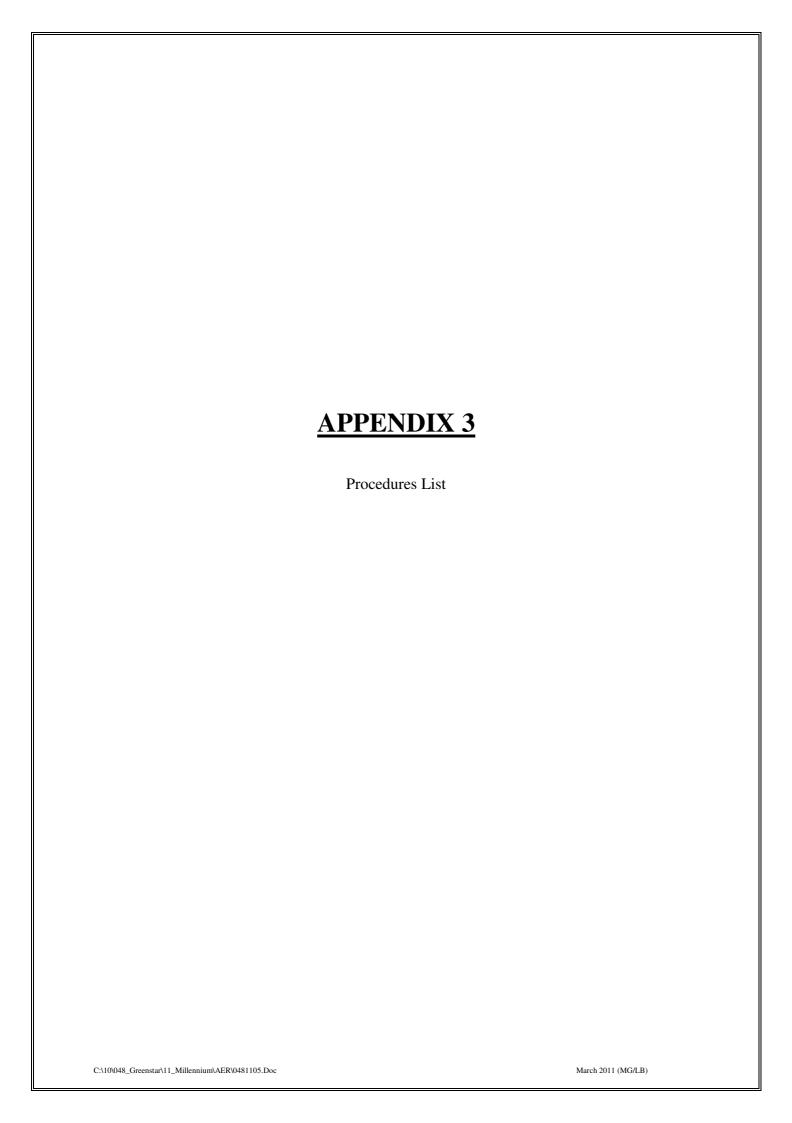
No.: SP 021 roved By:	Revision No.: 01 Malcolm Dowling – Group Environmenta Oliver Callan – Group H&S Manager	al Manager		16 th October 2
AUTHORITY NO	TIFICATION REQUIRED? No			
CORRESPONDIN	NG DEPARTMENT NOTIFICATION REQUIRED?	No		
INVESTIGATIO	ON OF INCIDENT / ACCIDENT - SEQUENCE	OF EVENTS	5	
ROOT CAUSE				
UNKNOWN				
CONTRIBUTIN	G FACTORS			
CORRECTIV	/E / PREVENTIVE ACTIONS REQUIRED	OWNER	СОМРІ	ETION DATE
Return to Work	Date / in service:			
Number of Days	s Lost: 0			
Additional Com	ments:			
VERIFICATION	N OF CORRECTIVE /PREVENTIVE ACTIONS	:		
	to commediate, instruction			



Ref.	SF 011	Iss. By	Don Gallagher / Olivier Gardelle	27
Version	1	Арр. Ву	Oliver Callan / Malcolm Dowling	greenstar setting the standard

Details of Complaint

	001	Date	28/06/2010			
Location	MP	Time	15:19			
Name of Complainant: Mr. Keith Geoghegan						
Address of Complainant:	Artisan Furniture Millennium Business Park					
Brief Details:	Complaint of odou facility	ır, noise, dust and b	irds from Greenstar			
Cause	Unknown					
Recorded by:	David Sweeney	Date:	15/10/10			
<u>lm</u> ı	mediate Corrective	Action Taken				
cause and severity of the cor implemented in order to solve		nousekeeping me				
Cianad	D . 1.10	_				
Signed	David Sweeney	Date	15/10/10			
	Non-Conformance	e Raised?	15/10/10			
Non-conformance Raised (Non-Conformand Y/N) Y	e Raised?	15/10/10			
	Non-Conformand Y/N) Y	e Raised?	15/10/10			
Non-conformance Raised (Non-Conformand Y/N) Y	ee Raised? 49 – SF 021	15/10/10			
Non-conformance Raised (Non-conformance Reference	Non-Conformanc Y/N) Y ce No. 0	e Raised? 49 – SF 021 n Proposed	15/10/10			
Non-conformance Raised (Non-conformance Reference	Non-Conformance Y/N) Yoe No. Preventative Action	e Raised? 49 – SF 021 n Proposed	15/10/10			
Non-conformance Raised (Non-conformance Reference	Non-Conformance Y/N) Yoe No. Preventative Action	e Raised? 49 – SF 021 n Proposed Completed	15/10/10			
Non-conformance Raised (Non-conformance Reference	Non-Conformance Y/N) Yose No. 0 Preventative Action Preventative A	Pate Complainants of Following weeks to	get an update on			







Integrate	Integrated Procedures - IP					
IP-01	Document & Record Control Procedure	Rev 02, 05/02/10				
IP-02	Health & Safety Risk Assessment Procedure	Rev 03, 10/03/10				
IP-03	Environmental Aspects & Impacts Procedure	Rev 03, 10/03/10				
IP-04	Legal & Regulatory Requirements Procedure	Rev 03, 10/03/10				
IP-05	Objectives, Targets & Management Programmes Procedure	Rev 03, 10/03/10				
IP-06	Competence, Training & Awareness Procedure	Rev 03, 10/03/10				
IP-07	Communication & Consultation Procedure	Rev 04, 28/04/10				
IP-08	Monitoring, Measurement & Improvement Procedure	Rev 02, 05/02/10				
IP-09	Evaluation of Compliance Procedure	Rev 03, 10/03/10				
IP-10	Non Conformances, Corrective/Preventive Actions Procedure	Rev 03, 10/03/10				
IP-11	Internal Audit Procedure	Rev 03, 10/03/10				
IP-12	Management Review Procedure	Rev 02, 05/02/10				
IP-13	Control of Contractors/Visitors Procedure	Rev 03, 10/03/10				
IP-14	Health & Safety & Environmental Monitoring	Rev 02, 05/02/10				
IP-15	Emergency Preparedness & Response Procedure	Rev 02, 10/03/10				

Safety Procedures - SP					
SP-01	Permit to Work Procedure	Rev 03, 10/03/10			
SP-02	Maintenance & Calibration Procedure	Rev 03, 10/03/10			
SP-03	Mobile Plant Procedure	Rev 02, 05/02/10			
SP-04	Fork Truck Procedure	Rev 03, 10/03/10			
SP-05	Operation of Fixed Plant Procedure	Rev 03, 10/03/10			
SP-06	Lock Out / Tag Out Procedure	Rev 03, 10/03/10			
SP-07	Health & Safety Notification Procedure	Rev 03, 10/03/10			

Environmen	Environmental Procedures - EP							
EP-01	Office Waste & Energy Management Procedure	Rev 02, 05/02/10						
EP-02	Decommissioning and Aftercare Procedure	Rev 02, 05/02/10						
EP-03	EPA Communications Procedure	Rev 02, 05/02/10						
EP-04	Waste Permits & Licences Procedure	Rev 01, 01/10/09						
EP-05	Waste Acceptance Procedure	Rev 01, 01/10/09						
EP-06	Unacceptable Waste Procedure	Rev 02, 10/03/10						
EP-07	Waste & Material Storage Procedure	Rev 02, 10/03/10						
EP-08	Waste Processing Procedure	Rev 01, 01/10/09						
EP-09	Site Infrastructure Procedure	Rev 02, 05/02/10						
EP-10	Nuisance Management Procedure	Rev 02, 05/02/10						
EP-11	Civic Amenity Site Procedure	Rev 02, 05/02/10						



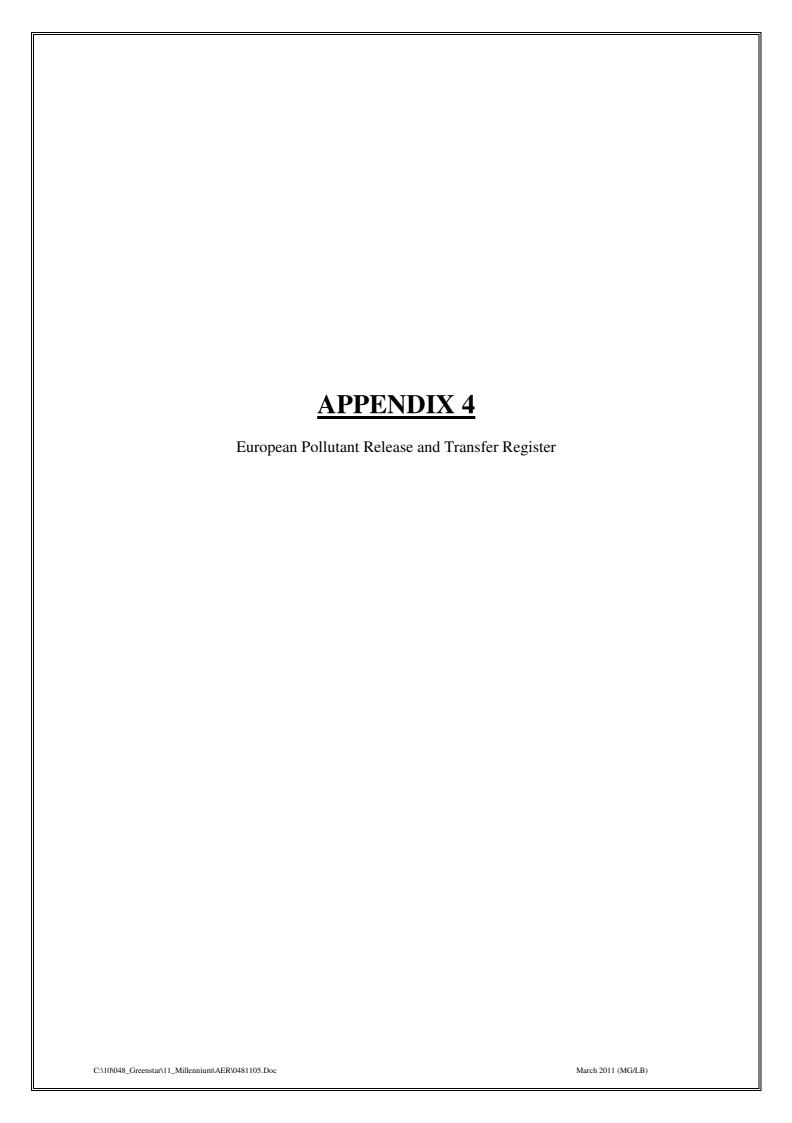


Doc. No.: ControlRevision No.: 01Issue Date: 01st October 2009Approved By:Malcolm Dowling - Group Environmental ManagerPage 2 of 2

Malcolm Dowling – Group Environmental Manager
Oliver Callan – Group H&S Manager

Amendment History

Date	Amendment No.	Procedure No:	Revision No:	Comment	Authorised By
01.10.09	01	All	Rev 01	Initial Issue	M.D & O.C
05.02.10	02	SP 01 to SP 07 IP 01 to IP 14 EP 01 to EP 3, EP 9, EP 10 & EP 11	Rev 02	Revision of Records	M.D & O.C
05.02.10	03	IP 15	Rev 01	Inclusion of ERP	M.D & O.C
10.03.10	04	IP 15	Rev 02	Contractor site rules & Handbook	M.D & O.C
10.03.10	05	IP 02 to IP 07, IP 09 to IP 11 & IP 13 SP 01, 02 & SP 04 to SP 07	Rev 03	Revision of Records	M.D & O.C
10.03.10	06	EP 06 & EP 07	Rev 02	Inclusion of Waste Rejection Form	M.D & O.C
28.04.10	07	IP 07	Rev 04	Inclusion of meetings	M.D & O.C





| PRTR# : W0183 | Facility Name : Greenstar Recycling Holdings Ltd | Filename : W0183_2010.xls | Return Year : 2010 |

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1 1 11

REFERENCE YEAR 2010

1. FACILITY IDENTIFICATION

1.1 AGIEITT IDENTILIOATION	
Parent Company Name	Greenstar Holdings Limited
Facility Name	Greenstar Recycling Holdings Ltd
PRTR Identification Number	W0183
Licence Number	W0183-01

Waste or IPPC Classes of Activity

No. | class_name

1101	Class_name
	Recycling or reclamation of organic substances which are not used
	as solvents (including composting and other biological
4.2	transformation processes).
	Blending or mixture prior to submission to any activity referred to in
3.11	a preceding paragraph of this Schedule.
	Repackaging prior to submission to any activity referred to in a
3.12	preceding paragraph of this Schedule.
	Storage prior to submission to any activity referred to in a preceding
	paragraph of this Schedule, other than temporary storage, pending
3.13	collection, on the premises where the waste concerned is produced.
	Use of waste obtained from any activity referred to in a preceding
4.11	paragraph of this Schedule.
	Exchange of waste for submission to any activity referred to in a
4.12	preceding paragraph of this Schedule.
···	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
4 13	produced.
	Recycling or reclamation of metals and metal compounds.
	Recycling or reclamation of other inorganic materials.
	Millennium Business Park
Address 2	
	Ballycoolin
Address 4	
Country	Ireland
Coordinates of Location	
River Basin District	IEEA
NACE Code	
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	
AER Returns Contact Email Address	
AER Returns Contact Position	
AER Returns Contact Telephone Number	
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	
Number of Operating Hours in Year	
Number of Employees	0
User Feedback/Comments	

| PRTR# : W0183 | Facility Name : Greenstar Recycling Holdings Ltd | Filename : Tonnage Millennium 2010.xls | Return Year : 2010 | Page 1 of 2

Web Address

2. PRTR CLASS ACTIVITIES

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

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

| PRTR# : W0183 | Facility Name : Greenstar Recycling Holdings Ltd | Filename : Tonnage Millennium 2010.xls | Return Year : 2010 | Page 2 of 2

4.1 RELEASES TO AIR

Link to previous years emissions data

| PRTR# : W0183 | Facility Name : Greenstar Recycling Holdings Ltd | Filename : W0183_2010.xls | Return Year : 2010 |

30/03/2011 09:56

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

	RELEASES TO AIR				Please enter all quantities	in this section in KC	Gs		
PC	DLLUTANT		MET	HOD			QUANTITY		
			N	Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) K	G/Year	F (Fugitive) KG/Year
					0.0		0.0	0.0	0.0

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

SECTION B: REMAINING PRTR POLLUTANTS

	RELEASES TO AIR				Please enter all quantities	in this section in KC	âs		
	POLLUTANT		N	METHOD			QUANTIT	Υ	
				Method Used					
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accider	ntal) KG/Year	F (Fugitive) KG/Year
					0.0		0.0	0.0	0.0

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

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

	RELEASES TO AIR				Please enter all quantities	in this section in KC	is		
POI	LUTANT		M	ETHOD			QUANTITY		
				Method Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidenta) KG/Year	F (Fugitive) KG/Year
					0.0)	0.0	0.0	0.0

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

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

Landfill: Greenstar Recycling Holdings Ltd

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

4.2 RELEASES TO WATERS

Link to previous years emissions data

| PRTR# : W0183 | Facility Name : Greenstar Recycling Holdings Ltd | Filename : W0183_2010.xls | Return Year : 2010 |

30/03/2011 09:56

SECTION A: SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as t

	RELEASES TO WATERS				Please enter all quantitie	s in this section in KO	is	
POL	LUTANT						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

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

SECTION B: REMAINING PRTR POLLUTANTS

SESTION D. HEMAININGT HITT SEESTA	***							
	RELEASES TO WATERS				Please enter all quantitie	s in this section in KC	is	
PO	LUTANT						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

^{*} 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 KG	S	
POI	LUTANT						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
					0.0	0.0	0.0	0.0

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

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

| PRTR# : W0183 | Facility Name : Greenstar Recycling Holdings Ltd | Filename : W0183_2010.xls | Re

30/03/2011 00-4

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TI	EATMENT OF	SEWER		Please enter all quantities in this section in KGs				
POLLUTANT			METHOD	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	

^{*} 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)

SEC	TION B : REMAINING POLL	LUTANT EMISSIONS (as required in your Licence)								
		OFFSITE TRANSFER OF POLLUTANTS DESTINED FO	R WASTE-WATER TREATMENT OF		THOD	Please enter all quantities in this section in KGs QUANTITY				
		POLLUTANT		IVI	Method Used	SE-1		QUANTITY		
Pollu	utant No.	Name	M/C/E	Method Code			T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year	
. 0	tan iio	Tuno	1111 072	Motrica Codo	Based on an estimate of		. ((· (: =g.:::=) ::=:::	
					water used in the wheel					
					wash and run off from the					
					MRF building. Analysis is					
238		Ammonia (as N)	E	ESTIMATE	ISO accredited	70.488	70.488	0.0	0.0	
					Based on an estimate of					
					water used in the wheel					
					wash and run off from the					
					MRF building. Analysis is					
303		BOD	E	ESTIMATE	ISO accredited	634.2	634.2	9.0	0.0	
					Based on an estimate of					
					water used in the wheel					
					wash and run off from the					
306		COD	E	ESTIMATE	MRF building. Analysis is ISO accredited	2530.8	2530.8	0.0	0.0	
306		COD	E	ESTIMATE	Based on an estimate of	2530.8	2530.8	0.0	0.0	
					water used in the wheel					
					wash and run off from the					
					MRF building. Analysis is					
314		Fats, Oils and Greases	E	ESTIMATE	ISO accredited	0.198	0.198	0.0	0.0	
0		rato, one and disable	_		Based on an estimate of	0.100	0.10		0.0	
					water used in the wheel					
					wash and run off from the					
					MRF building. Analysis is					
343		Sulphate	E	ESTIMATE	ISO accredited	375.264	375.26	0.0	0.0	
					Based on an estimate of					
					water used in the wheel					
					wash and run off from the					
					MRF building. Analysis is					
308		Detergents (as MBAS)	E	ESTIMATE	ISO accredited	3.606	3.600	0.0	0.0	
					Based on an estimate of					
					water used in the wheel					
					wash and run off from the					
0.40		0 1.00%	_	FOTIMATE	MRF building. Analysis is	227.5	007.1			
240	<u> </u>	Suspended Solids * Solest a row by double eligibling on the Pollutent Name (Column P) the	E	ESTIMATE	ISO accredited	607.5	607.	0.0	0.0	

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

Link to previous years emissions data

4.4 RELEASES TO LAND

Link to previous years emissions data

| PRTR# : W0183 | Facility Name : Greenstar Recycling Holdings Ltd | Filename : W0183_2010.xls | Return Year : 2010 |

30/03/2011 09:59

SECTION A: PRTR POLLUTANTS

	RELE	ASES TO LAND			Please enter all quantities in this section in KGs				
	POLLUTANT			ETHOD		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		
						0.0	0.0		

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

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

OLOTION D. HEIMAINING FO	SECTION BY TELEMANTING TO SECTION TO LIGHT CONTROL TO YOUR ENGINEER										
	RELEASES TO LAND				Please enter all quantities in this section in KGs						
	POLLUTANT			METH	DD		QUANTITY				
	nt No. Name			Me	thod Used						
Pollutant No.			M/C/E	Method Code Designation or Description		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Yea			
							0.0	0.0			

^{*} 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# : W0183 | Facility Name : Greenstar Recycling Holdings Ltd | Filename : W0183 | 2010.xls | Return Year : 2010 |

Please enter all quantities on this sheet in Tonnes Haz Waste : Name and Licence/Permit No of Next Name and License / Permit No. an ectination Facility Non Haz Waste: Address of Next Quantity Haz Waste: Name and Actual Address of Final Destination Address of Final Recoverer / Destination Facility (Tonnes per Licence/Permit No of Non Haz Waste: Address of Disposer (HAZARDOUS WASTE i.e. Final Recovery / Disposal Site Year) Method Used Recover/Disposer Recover/Dispose (HAZARDOUS WASTE ONLY) Waste European Waste Treatment Location of Transfer Destination Code Hazardous Description of Waste Operation M/C/E Method Used Treatment Rosemount Business Park, Ballycoolin Bailey Waste Recycling, WFP-Road, Blanchardstown, Dublin Within the Country 15 01 01 Nο 650.0 paper and cardboard packaging R3 Weighed Offsite in Ireland FG-08-0002-01 16.Ireland Fassaroe, Bray, Co. Offsite in Ireland Greenstar Limited, W0053-03 Wicklow,...Ireland Within the Country 15 01 01 No 9.3 paper and cardboard packaging R13 М Weighed Rosemount Business Park.Ballycoolin Bailey Waste Recycling, WFP-Road, Blanchardstown, Dublin Offsite in Ireland FG-08-0002-01 Within the Country 15 01 02 Nο 18.0 plastic packaging R3 Weighed 16.Ireland Max Pallet Services Ltd., Not Colemanstown, Rathcoole, Co Within the Country 15 01 03 41.62 wooden packaging R3 Offsite in Ireland Required Dublin...Ireland Weighed Fassaroe, Bray, Co. R13 Offsite in Ireland Greenstar Limited, W0053-03 Wicklow,...Ireland Within the Country 15 01 06 Nο 3546.23 mixed packaging Weighed Ballymount soil and stones other than those mentioned Greenstar Environmental Cross.Tallaght.Dublin R5 Within the Country 17 05 04 Nο 56.0 in 17.05.03 Weighed Offsite in Ireland Services Ltd, W0039-02 24 Ireland Block 402 Grant's Drive, Greenogue Business Rilta Environmental Park.Rathcoole.Co. Within the Country 19 09 02 No 2.0 sludges from water clarification D12 M Weighed Offsite in Ireland Limited, W0192-03 Dublin, Ireland Kilcullen.Co. Offsite in Ireland KTK Landfill, W0081-01 Kildare,,,,Ireland Within the Country 19 12 07 777,77 wood other than that mentioned in 19 12 06 R3 No Weighed Greenstar Holdings Knockharley ,Navan,Co. Within the Country 19 12 07 No 2532.41 wood other than that mentioned in 19 12 06 R3 Weighed Offsite in Ireland Ltd,W0146-02 Meath,,,Ireland Fassaroe, Bray, Co. Within the Country 19 12 07 No 35.66 wood other than that mentioned in 19 12 06 R13 M Weighed Offsite in Ireland Greenstar Limited, W0053-03 Wicklow,.,Ireland Ballynagran, Coolbeg & Greenstar Holdings Kilcandra.Co. 129.42 wood other than that mentioned in 19 12 06 R3 Within the Country 19 12 07 No M Weighed Offsite in Ireland Ltd., W0165-02 Wicklow,.,Ireland Kilcullen,Co. Offsite in Ireland KTK Landfill, W0081-01 Within the Country 19 12 09 2003.18 minerals (for example sand, stones) R3 M Kildare.....Ireland No Weighed Greenstar Holdings Knockharley ,Navan,Co. 7280.62 minerals (for example sand, stones) Offsite in Ireland Ltd,W0146-02 Meath,..lreland Within the Country 19 12 09 No R3 Weighed Ballynagran, Coolbeg & Greenstar Holdings Kilcandra.Co. Within the Country 19 12 09 No 9715.35 minerals (for example sand, stones) R3 Weighed Offsite in Ireland Ltd., W0165-02 Wicklow,.,Ireland other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 Bord Na Mona PLC, W0201-Drehid Landfill, Drehid , Co. Within the Country 19 12 12 Nο 40.72 11 Weighed Offsite in Ireland 03 Kildare Ireland other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 Greenstar Holdings Knockharley ,Navan,Co. 548.86 11 Within the Country 19 12 12 No M Weighed Offsite in Ireland Ltd,W0146-02 Meath,..lreland other wastes (including mixtures of Ballynagran, Coolbeg & materials) from mechanical treatment of wastes other than those mentioned in 19 12 Greenstar Holdings Kilcandra, Co. Within the Country 19 12 12 No 477.82 11 Weighed Offsite in Ireland Ltd., W0165-02 Wicklow,..,Ireland Fassaroe, Bray, Co. Within the Country 20 01 01 R13 Offsite in Ireland Greenstar Limited, W0053-03 Wicklow, , Ireland No 5.12 paper and cardboard M Weighed Ballintrane.Co. O'Toole 2686.0 biodegradable kitchen and canteen waste Within the Country 20 01 08 R3 Offsite in Ireland Composting, WP01/07 Carlow,,,,,Ireland No Weighed

Weighed

Offsite in Ireland Eirebloc, CK(S) 503/07

Lissarda, Co. Cork,..., Ireland

2717.0 wood other than that mentioned in 20 01 37 R3

Within the Country 20 01 38

										Haz Waste : Name and			
										Licence/Permit No of Next			
				Quantity						Destination Facility Non		Name and License / Permit No. and	
										Haz Waste: Name and	Destination Facility	Address of Final Recoverer /	Actual Address of Final Destination
				(Tonnes per						Licence/Permit No of	Non Haz Waste: Address of	Disposer (HAZARDOUS WASTE	i.e. Final Recovery / Disposal Site
				Year)				Method Used		Recover/Disposer	Recover/Disposer	ONLY)	(HAZARDOUS WASTE ONLY)
						Waste							
		European Waste				Treatment			Location of				
	ransfer Destination	Code	Hazardous		Description of Waste	Operation	M/C/E	Method Used	Treatment				
											Unit 643 Greenogue		
											Industrial		
										Ormonde Organics	Estate,Rathcoole,Co.		
١	Vithin the Country	20 01 38	No	91.0	wood other than that mentioned in 20 01 37	R3	M	Weighed	Offsite in Ireland	Ltd.,W0237-01	Dublin,,Ireland		
	-										10 The Anchorage Business		
										Davis Recycling Ltd., W0134-	Park.Charlotte Quav.Dublin		
١	Vithin the Country	20 01 40	No	2207.19	metals	R4	M	Weighed	Offsite in Ireland		4Ireland		
										O'Toole	Ballintrane,Co.		
١	Vithin the Country	20 02 01	No	2424 0	biodegradable waste	R3	М	Weighed	Offsite in Ireland	Composting,WP01/07	Carlow,,Ireland		
	viaini aic country	20 02 01	140	2-72-1.0	biodegradabie waste	110		Weighted	Onsite in incland	Composting, vvi Ciror	Craq Avenue, Clondalkin		
										Greyhound Recycling &	Industrial Estate.Clondalkin		
١,	Vithin the Country	20 03 07	No	100 14	bulky waste	R5	М	Weighed	Offsite in Ireland	Recovery Limited, W0205-01	.Dublin 22.Ireland		
١,	vitiliti the Country	20 03 07	INU	100.14	bulky waste	no	IVI	weighed	Offsite III fletariu	Greenstar Holdings	Knockharley ,Navan,Co.		
١,	lithin the Country	20 03 07	No	20500.0	bulky waste	D5	М	Weighed	Offsite in Ireland		Meath,,,Ireland		
,	Vithin the Country	20 03 07	INO	30306.0	bulky waste	DS	IVI	weighed	Offsite in freiand	LIU, VVU 146-02	Rosemount Business		
										Deiler Meste Describes MED	Park,Ballycoolin		
٠,		00.00.07		40.00		D.F.			0"" " 1 1 1		- Road, Blanchardstown, Dublin		
١,	Vithin the Country	20 03 07	No	19.22	bulky waste	R5	M	Weighed	Offsite in Ireland	FG-08-0002-01	16,Ireland		
										Waddock Composting ,WP	Killamaster,Co.		
١	Vithin the Country	20 01 38	No	67.0	wood other than that mentioned in 20 01 37	R3	M	Weighed	Offsite in Ireland	11/04 & WP 01/02	Carlow,.,,,Ireland		
											Bluebell Industrial		
١	Vithin the Country	20 01 99	No	2.0	other fractions not otherwise specified	R4	M	Weighed	Offsite in Ireland	Flo Gas Ltd,Not Required	Estate, Dublin 12,.,., Ireland		
												Veolia Hazardous Waste	
												Solutions,W0050-	
					solid wastes containing dangerous					Veolia Hazardous Waste	Corrin, Fermoy, Co.	02,Corrin,Fermoy,Co.	Corrin, Fermoy, Co.
١	Vithin the Country	07 05 13	Yes	117.58	substances	R5	M	Weighed	Offsite in Ireland	Solutions,W0050-02	Cork,.,Ireland	Cork,.,Ireland	Cork,.,Ireland
	•										Killaskillen, Kinnegad, Co.		
١	Vithin the Country	19 12 10	No	30.16	combustible waste (refuse derived fuel)	R5	M	Weighed	Offsite in Ireland	Lagan Cement, P0487-05	Meath,.,Ireland		
					(1,000 - 000			- 3			Rosemount Business		
											Park, Ballycoolin		
										Bailey Waste Becycling WEP	- Road.Blanchardstown.Dublin		
١.	Vithin the Country	10 12 10	No	21 22	combustible waste (refuse derived fuel)	R5	М	Weighed	Offsite in Ireland	FG-08-0002-01	16.Ireland		
•	vitiliii tile Coulitry	13 12 10			the Description of Maste than slight the delete butter	110	IVI	weighed	Onsite in heland	1 0 00 0002 01	10,110iaiia		

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