



ANNUAL ENVIRONMENTAL REPORT
GREENSTAR LIMITED
MATERIALS RECOVERY FACILITY
MILLENNIUM BUSINESS PARK
LICENCE NO. W0183-01
JANUARY 2013 – DECEMBER 2013

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TABLE OF CONTENTS

	<u>PAGE</u>
1. INTRODUCTION.....	1
2. SITE DESCRIPTION.....	2
2.1 SITE LOCATION AND LAYOUT	2
2.2 WASTE MANAGEMENT ACTIVITIES	2
2.2.1 Waste Types & Processes.....	2
2.2.2 Plant List.....	3
3. EMISSION MONITORING	5
3.1 SURFACE WATER MONITORING	5
3.2 WASTEWATER MONITORING	6
3.3 NOISE MONITORING	7
3.4 DUST MONITORING	8
4. SITE DEVELOPMENT WORKS	11
4.1 SPECIFIED ENGINEERING WORKS	11
4.2 SUMMARY OF RESOURCE & ENERGY CONSUMPTION	11
4.3 BUND INTEGRITY TESTING	11
5. WASTE RECEIVED AND CONSIGNED FORM THE FACILITY	12
6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS	16
6.1 INCIDENTS	16
6.2 REGISTER OF COMPLAINTS.....	16
7. ENVIRONMENTAL DEVELOPMENT & CONTROL.....	17
7.1 ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT	17
7.1.1 Site Management Structure 2012	17
7.1.2 Staff Training.....	18
7.2 ENVIRONMENTAL MANAGEMENT PROGRAMME PROPOSAL	18
7.2.1 Schedule of Objectives 2013	18
7.2.2 Schedule of Objectives 2014	18
7.3 COMMUNICATIONS PROGRAMME	18
7.4 ELRA & REPORT ON FINANCIAL PROVISION	24
7.5 NUISANCE CONTROLS	24
7.6 RAINWATER AND WASTEWATER VOLUMES	24
8. OTHER REPORTS.....	25
8.1 EUROPEAN POLLUTANT RELEASE AND TRANSFER REGISTER REGULATION	25
APPENDIX 1 -	European Pollutant Release and Transfer Register
APPENDIX 2 -	Procedures List

1. INTRODUCTION

This is the 2013 Annual Environmental Report (AER) for the Greenstar Holdings Limited (Greenstar), Materials Recovery & Transfer facility (MRF) at Millennium Business Park, Ballycoolin, Dublin. It covers the period from the 1st January 2013 to the 31st December 2013. During the reporting period, Greenstar was in receivership but ownership of the company and transfer of the licence to Starrus Eco Holdings Ltd (trading as Greenstar) was completed in March 2014.

The content is based on Schedule B of the Waste Licence (Reg. No. W0183-01) and the report format follows guidelines set in the “Guidance Note for Annual Environmental Report” issued by the Environmental Protection Agency (Agency)¹. Account is also taken of the AER Draft Guidance Document and AER Information Templates issued by the Agency in January 2013².

¹ EPA (Environmental Protection Agency) 1999 Waste Licensing – Draft Guidance on Environmental Management Systems and Reporting to the Agency

² EPA (Environmental Protection Agency) 2012 Draft AER Guidance Document
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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. The Agency has granted approval for the outdoor storage of wrapped bales of Solid Recovered Fuel (SRF).

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 Municipal and 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.),
- Production of SRF and baling and outdoor storage pending shipment.

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 or sent to the onsite bailing process for the production of SRF bales. SRF bales are stored externally pending shipment abroad for energy recovery.

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	SRF process line	MCDI	240	0
1	C&I Loading grab	Fuchs MHL 340	2160	1710
1	Palfinger static crane	Pal.epsolution	1t@12m/3t@5m	1 tonne
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
1	RDF/SRF Baler	Orkel	300	0

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

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 most of the paved area of the site and roofed areas.

During the monitoring period there was no flow in SW-1 and SW-2 during Q-2 2013. The sampling and analysis was carried out in accordance with recognised quality assurance and control procedures.

The results are presented in Table 3.1 and 3.2, which includes the trigger levels and Emission Limit Values (ELVs) set in the licence. The routine monitoring results confirm 100% compliance with the ELVs.

The ammonia and COD levels were elevated during the reporting period. Greenstar carried out jetting and cleaning of interceptors and surface water drains on site throughout 2013. No source of the elevated levels of ammonia or COD was identified on site. It is believed that a blockage existed outside the boundary of the facility but within the Business Park. It is understood that there was a failure of the pumps that are used to draw water from the Business Park to a storm/surface water retention tank where it then feeds into the Fingal County Council system. It is possible that there could have been a backflow occurring within the drainage system. A management company (Management Partnerships) previously retained by the Business Park was dismissed in October 2013 for failing to provide adequate service (including maintenance of the drainage system) and since then a new management company (Hillview Securities Limited) has been in situ. Significant maintenance works have occurred outside the boundary of the facility and these will hopefully be reflected in an improvement in quality of discharge.

Table 3.1 Surface Water Monitoring Results SW-1

Parameter	Units	Q1 '13	Q2 '13	Q3'13	Q4 '13	Trigger Levels
pH	pH Units	7.48	Dry	7.52	7.95	N/A
Conductivity	mS/cm	0.454	Dry	0.432	0.429	N/A
Temperature	°C	6.1	Dry	8.6	7.1	N/A
Ammoniacal Nitrogen	mg/l	0.5	Dry	3.6	3.44	N/A
BOD	mg/l	4	Dry	5	7	25
COD	mg/l	15	Dry	83	38	N/A
Total Suspended Solids	mg/l	23	Dry	11	18	35
Oils, Fats & Greases	mg/l	<0.01	Dry	<1	0.4	N/A
Mineral Oils	mg/l	<0.01	Dry	<0.001	<0.01	5

NDP – No detection possible

Table 3.2 Surface Water Monitoring Results SW-2

Parameter	Units	Q1 '13	Q2 '13	Q3'13	Q4 '13	Trigger Levels
pH	pH Units	7.62	Dry	7.49	7.89	N/A
Conductivity	mS/cm	0.441	Dry	0.552	0.441	N/A
Temperature	°C	6.1	Dry	8.5	7.2	N/A
Ammoniacal Nitrogen	mg/l	0.5	Dry	3.76	3.67	N/A
BOD	mg/l	3	Dry	5	11	25
COD	mg/l	15	Dry	84	32	N/A
Total Suspended Solids	mg/l	<10	Dry	25	22	35
Oils, Fats & Greases	mg/l	1.790	Dry	<1	<0.01	N/A
Mineral Oils	mg/l	2.89	Dry	<0.001	<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 six waste water samples in 2013. The Agency attempted to collect a sample from SE-1 on the 30th January 2013. The sample location was dry and a sample could not be collected. The Emission Limit Values (ELVs) were not exceeded during the reporting period and the discharge was in compliance with the licence conditions. The results are presented in Table 3.3, which includes the trigger levels and ELVs set in the licence. The routine monitoring results confirm 100% compliance with the ELVs.

Table 3.3 Wastewater Monitoring Results SE-1

Parameter	Units	Feb '12	Apr '12	Jun '12	Aug '12	Oct '12	Dec' 12	Emission Limit
pH	pH Units	7.15	6.91	6.11	6.67	7.26	7.64	6 – 10
Electrical Conductivity	mS/cm	0.601	0.756	0.689	0.596	0.426	0.543	-
Temperature	°C	5.8	10.01	9.6	8.9	6.9	8.1	42
Total Nitrogen	mg/l	16.55	5.49	28	29.01	1.72	14.97	-
Ammoniacal Nitrogen	mg/l	593	16	833	207	4	12	100
BOD	mg/l	1,280	43	1340	467	52	33	6,000
COD	mg/l	114	62	740	156	17	49	12,000
Total Suspended Solids	mg/l	<0.01	<0.01	64.9	<0.01	<1	<0.01	2,500
Oils, Fats & Greases	mg/l	<0.06	1.83	1.2	0.44	0.168	0.148	100
Phosphorus	mg/l	1.8	0.5	0.35	0.5	0.08	0.7	-
Surfactants	mg/l	<0.05	58.86	206.4	0.05	612.7	191.4 7	100
Sulphate	mg/l	5.8	10.01	6.11	6.67	7.26	7.64	1,000

3.3 Noise Monitoring

The annual noise survey was carried out on the 22nd August 2013. The full monitoring report was submitted to the Agency in September 2013. 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. No emissions from the Greenstar facility were audible at this location. Therefore noise emissions from the facility were less than the 55 dB limit set in the Licence at NSL1.

Table 3.4 Noise Monitoring Results 2013

Station	Time	L _{Aeq} 30 min dB	L _{AF10} 30 min dB	L _{AF90} 30 min dB	Specific level* dB	Noise audible
N1	1221-1251	49	50	46	45	Greenstar building air management system continuously clearly audible. Intermittent truck movements near weighbridge area audible at low level. Distant road traffic noise to SE continuously clearly audible and significant. Bird song/calls and aircraft.
N2	1324-1354	60	61	58	60	Greenstar building air management system continuously dominant. Plant and truck movements on nearest yard area and through weighbridge dominant when present. No other noise audible apart from nearby bird calls, and aircraft.
N3	1144-1214	69	70	68	69	Greenstar building air management system continuously dominant. Sporadic local truck movements audible. No other noise audible apart from frequent loader movements at premises outside boundary.
NSL1	1358-1428	69	73	47	<47	No site emissions audible. Frequent passing road traffic dominant. During lulls, distant traffic and commercial activity audible. Birdsong and aircraft.

*Specific level: L_{Aeq} level considered attributable to facility during interval, determined using real time assessment, field notes, time history profiles, statistical analysis, frequency spectra, spectral statistics and near field correction if applicable.

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 June, August and December 2013. 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.

In 2013 there were no exceedances of the dust deposition limit at any of the monitoring locations. The dust monitoring programme has shown that the facility is not a significant source of dust.

Table 3.4 Dust Monitoring Results

Monitoring Location	Units	June '13	Aug '13	December '13	Deposition Limit Value
DS-01	mg/m ² /day	15.4	11.4	9.1	350
DS-02	mg/m ² /day	29.1	22.7	14.0	350
DS-03	mg/m ² /day	20.4	44.6	36.4	350
DS-04	mg/m ² /day	34.8	16.0	11.0	350

Figure 3.2 Noise Sensitive Location



4. SITE DEVELOPMENT WORKS

4.1 Specified Engineering Works

There were no specified engineering works undertaken in 2013.

4.2 Summary of Resource & Energy Consumption

Table 4.1 presents an estimate of the resources used on-site during 2013 as well as 2012.

Table 4.1 Estimates of Resources Used On-Site 2012 - 2013

Resources	Quantities 2012	Quantities 2013
Diesel (green)	110,983 litres	89,391 litres
Electricity	2,207,363 kWh	2,034,000 kWh
Hydraulic, Transmission & Engine Oil	3,580 litres	2,060 litres
Truck Wash Detergent	100 litres	50 litres
Mains Water	3,832,500 litres*	5,344,000 litres
Natural Gas	62,790 kWh	52,210 kWh
Anti-Freeze	-	80 litres

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

A decrease in the consumption of diesel, detergents and oils was observed in 2013 when compared to levels observed in 2012. These variances are largely the result of changes in operation.

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 on-site mobile bunds were tested in December 2013 and past fit for purpose. A report was submitted to the Agency. A CCTV survey was carried out on the site drains by Horizon Environmental in May 2013. The drains were passed fit for purpose. Integrity testing is due again in 2016.

5. WASTE RECEIVED AND CONSIGNED FORM THE FACILITY

Table 5.1 shows the quantities of wastes accepted and consigned for the reporting period. A more detailed description of the wastes received and consigned in 2013 is presented in the PRTR submission in Appendix 1.

The total quantity of waste received was 83,500.64 tonnes and the total amount consigned was 81,230.13 tonnes. For comparative purposes the amounts of waste received and consigned from 2006 to 2012 are presented in Table 5.2 and 5.3. As per Condition 5.8 of the Licence, all the wastes consigned from the site went to authorised recovery and disposal facilities. A copy of the relevant Facility Permit or Waste Licences is retained on site for Agency inspection.

The records show that more waste was received at the site than consigned from. The difference was 2,270 tonnes.

The remaining difference is due to waste which remained on site at the end of 2013 which will be consigned in 2014.

All the wastes consigned from the site went to recovery and disposal facilities agreed with the Agency.

Table 5.1 Waste Received & Consigned 2013

EWC	Description	Waste In	Waste Out
101008	casting cores and moulds which have undergone pouring, other than those mentioned in 10 10 07	1.08	-
130208*	other engine, gear and lubricating oils	-	0.86
150101	paper and cardboard packaging	45.24	-
150102	plastic packaging	73.12	94.60
150103	wooden packaging	366.02	29.60
150104	metallic packaging	1.68	-
150106	mixed packaging	5,314.65	5,102.11
150107	glass packaging	12.99	-
160103	end-of-life tyres	-	27.24
160504*	gases in pressure containers (including halons) containing dangerous substances	-	1.56
170107	mixtures of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06	-	1,908.04
170201	wood	311.19	-
170203	plastic	2.20	-
170504	soil and stones other than those mentioned in 17 05 03	478.25	-
170904	mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03	3,008.34	-
190502	non-composted fraction of animal & vegetable waste	21.18	-
190902	sludges from water clarification	-	9.92
191207	wood other than that mentioned in 19 12 06	-	4,315.74
191209	minerals (for example sand, stones)	466.62	23,843.00
191210	combustible waste (refuse derived fuel)	-	11,135.42
191212	other waste from mechanical treatment of wastes other than those mentioned in 19 12 11	14,617.42	21,846.87
200101	paper and cardboard	0.20	-
200102	glass	1.47	-
200108	biodegradable kitchen and canteen waste	1,492.37	2,403.26
200111	textiles	25.84	-
200138	wood other than that mentioned in 20 01 37	1,875.43	-
200139	plastics	3.48	-
200140	metals	552.52	2,581.76
200199	Grease Trap & Carbon	1.57	-
200201	biodegradable waste	169.53	-
200301	mixed municipal waste	18,500.78	3,198.90
200303	street-cleaning residues	6,496.84	4,662.38
200307	bulky waste	29,660.65	68.88
	Total Received	83,500.66	
	Total Consigned		81,230.14
	Total Disposed		13,431.62
	Total Recovered		67,798.52
	Recovery Rate (%)		83.46

Table 5.2 Waste Received & Consigned 2012

EWC	Description	Waste In	Waste Out
06 13 99	LDF Activated Carbon	-	21.98
10 01 01	Bottom ash, slag and boiler dust	2.8	-
15 01 01	Segregated cardboard & paper packaging	6.15	-
15 01 02	Segregated plastic packaging	56.32	21.14
15 01 03	Segregated wood packaging	435.78	34.62
15 01 04	Segregated metal packaging - aluminium cans	16.85	-
16 01 03	Tyres	5.46	11.75
16 05 04	Haz Gas Cylinders		1.74
17 05 04	Soil & stone from C&D waste	676.21	-
17 09 04	Mixed C&D waste	3,814.28	-
19 09 02	Interceptor Sludge	-	6.3
19 12 07	Wood	-	2,362.75
19 12 09	Minerals from mechanical treatment (e.g. inorganic fines, sand, stones)	2,148.84	24,075.4
19 12 10	RDF Combustible	60.92	10,498.55
19 12 12	Mixed Municipal Waste	6,806.54	9,684.81
20 01 01	Paper & cardboard from municipal sources	6.26	-
20 01 08	Commercial food waste e.g. canteens, restaurants	1,143.89	1,125.86
20 01 11	Textile	50.46	-
20 01 35	WEEE	1.44	-
20 01 38	Wood waste from municipal sources (e.g. furniture)	1,308.69	3,004.37
20 01 39	Plastic from municipal sources	6.07	-
20 01 40	Metals from municipal waste e.g. light iron	508.39	2,463.03
20 01 99	Grease trap carbon	0.84	0.36
20 02 01	Biodegradable garden & park waste	189.8	-
20 03 01	Mixed residual waste (typically black bin)	26,521.49	19,635.38
20 03 03	Street-cleaning residues	10,410.84	11,127.92
20 03 07	Mixed Waste	38,305.41	3,394.75
91 00 00	Bulky waste	0.4	-
Total Received		92,484.12	-
Total Consigned			87,448.73
Recovered			56,305.78
Disposed			31,143
Recovery Rate			64.3%

Table 5.3 Waste Received & Consigned

Year	Total Received	Total Consigned
2012	92,484.12	87,448.73
2011	87,191	83,181
2010	74,694.50	68,868.59
2009	79,469.57	77,224.94
2008	133,813.88	129,366.26
2007	167,056.84	161,828.21
2006	79,570.21	80,725.68

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

There were no reportable incidents in 2013.

6.2 Register of Complaints

Greenstar maintains a register of complaints received in accordance with Condition 9.4 of the waste licence. There were no complaints in 2013.

7. ENVIRONMENTAL DEVELOPMENT & CONTROL

7.1 Environmental Management Programme Report

Greenstar has implemented an Integrated Management System (IMS) in accordance with the requirements of Occupational Health and Safety Assessment Series (OHSAS) 18001:2007 and International Standard Organisation (ISO) 14001:2004 in order to manage the Health, Safety and Environmental performance of their business and to control health and safety risk and to minimise their environmental aspects and impacts.

The IMS has been developed for the achievement of continual improvement taking into the requirements of the Waste Licence Conditions. Greenstar has prepared and effectively implement documented procedures and instructions in accordance with the requirements of both the OHSAS 18001:2007 and ISO 14001:2004.

As part of this IMS Greenstar has developed a list of environmental, management, operating and maintenance procedures, details of which are outlined in Appendix 2.

During 2013 a successful IMS external surveillance audit was carried out in Millennium Park on 10th December during which no non-conformances were recorded against the facility.

The schedule of Objectives and Targets, including their status for 2013 (Table 7.1), as well as the proposed Objectives and Targets for 2014 (Table 7.2) are presented below.

7.1.1 *Site Management Structure 2012*

Name: Declan O Reilly

Responsibility: Greenstar GDA Manager

Experience: 12 years experience waste management experience;

Name: John Richardson

Responsibility: Facility Manager

Experience: 16 years experience; has completed the FÁS waste management course.

Name: Robert Hughes
Responsibility: Site Operations Manager

Experience: 11 years experience in Waste management,

7.1.2 Staff Training

Environmental awareness, manual handling and lock out/tag out training was undertaken by the operations staff. Managers received environmental management system (Scannell) training.

7.2 Environmental Management Programme Proposal

7.2.1 Schedule of Objectives 2013

The objectives that were achieved during this reporting period are outlined in Table 7.1.

7.2.2 Schedule of Objectives 2014

The schedule of targets and objectives for 2014 are presented 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, Health & Safety 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, Health & Safety 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 2013 –

No	Objective	Target	Responsibility	Timescale
1	Perimeter fence litter free zone	Zero litter along perimeter fence	Operations Supervisor	Actioned and Ongoing
2	Minimise windblown litter on site	Minimise windblown litter on site, cleaning Zones established on site, weekly maintenance	Operations supervisor	Actioned & Ongoing
3	Cleaner site, cleaner entrance roads	Weekly servicing by road sweeper of site and entrance roads within estate. Clean access roads within and off site	Site Management	Ongoing
4	Odour Management	Compile an Odour Management Plan for the facility and include it on the IMS training matrix	Site Management	Actioned in Q2 2013
5	Improve Waste Storage	Review waste wood processing & storage practices taking account of the recent Agency Position Paper on the Management of Wood Waste	Site Management	Actioned
5B	Improve Waste Storage	An Overnight Waste Acceptance Procedure was introduced in November 2012. Ensuring this new procedure is implemented will improve Waste Storage and general housekeeping	Site Management	Actioned & Ongoing
6	Environmental Liabilities	Commission the completion of an ELRA in 2013	Site Management	Actioned in Q-3 2013
7	Pipework Integrity Testing	Appoint a suitably qualified contractor to perform an integrity test of the pipe-work onsite including both storm water and foul lines	Site Management	Completed

No	Objective	Target	Responsibility	Timescale
8	Maintain EMS to ISO:14001 Standard	Through a series of scheduled audits or an audit programme throughout the year develop and maintain the current IS)14001 Certification Standard	Site Management	Successfully Maintained

Table 7.2 Schedule of Objective and Targets 2014 -

No	Objective	Target	Responsibility	Timescale
1	Development and adoption of Fire Prevention Procedure at the facility	Reduce risk of fire and enable early detection	Site Management/EHS	Q-2 2014
2	Review of Emergency Response Plan to incorporate fire prevention procedure and new structure	Revision of Plan and additional training for site personnel. ERP to be amended to include location of shut-off valves for FW and SW and location of control panels for same	Site Management/EHS	Q-2 2014
3	Load optimisation	Increase load capacity per truck to reduce number of truck movements.	Site Supervisor	Q-2 2014
4	Reduce volumes to landfill	Reduce volumes to landfill, improve pre-sorting of waste, with special emphasis on mattresses for metal and other component recovery.	Site supervisor	Q-1 2014
5	Achieve re-certification to ISO 14001 and OHSAS 18001 standard	3 year certification period expires in 2014. The facility requires re-certification.	Site Management/EHS	Q-3/Q-4 2014
6	Increase recovery of Gypsum	Improve pre-sorting of C&D waste	Site supervisor	Q-2 2014

7	Trigger/Warning Levels	Develop trigger/warning levels of the surface water discharge form the site.	Group Environmental Management	Q-2 2014
8	Develop and maintain traffic management plan at the facility	Review of all on-site traffic management	Site Management/EHS	Q-2/Q-3 2014
9	Environmental Training of Facility Staff	Update training presentation and ensure training of key managerial staff	Site Management/EHS	Q-2/Q-3 2014
10	Site Signage	Facility Notice Boards to be replaced to reflect new ownership	Site Management/EHS	Q-1 2014

7.4 ELRA & Report on Financial Provision

A Decommissioning Management Plan (DMP) and Environmental Liabilities Risk Assessment (ELRA) including Financial Provision (FP) were submitted to the Agency in 2013 as part of the transfer of the licence which occurred in Q1 2014. Both the DMP and ELRA have been approved by the Agency.

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. Extra vermin vigilance procedures were introduced in 2013. Bird control procedures were updated in 2010 to include the use of a bird kite at the facility.

7.6 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. 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

8.1 European Pollutant Release and Transfer Register Regulation

The Pollution Emission Register (PER) has been replaced by the European Pollutant Release and Transfer Register Regulation (EC) No. 166/2006. A copy of the information submitted to the Agency via the web-based data reporting system is included in Appendix 1.

APPENDIX 1

European Pollutant Release and Transfer Register



[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.17

REFERENCE YEAR	2013
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1. FACILITY IDENTIFICATION

Parent Company Name	Greenstar Limited
Facility Name	Greenstar Limited
PRTR Identification Number	W0183
Licence Number	W0183-01

Waste or IPPC Classes of Activity

No.	class name
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
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.
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
Address 1	Millennium Business Park
Address 2	Grange
Address 3	Ballycoolin
Address 4	Dublin 11
	Dublin
Country	Ireland
Coordinates of Location	-6.34044 53.4084
River Basin District	IEEA
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	Malcolm Dowling
AER Returns Contact Email Address	malcolm.dowling@greenstar.ie
AER Returns Contact Position	Group Compliance Manager
AER Returns Contact Telephone Number	012947976
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	20
User Feedback/Comments	In releases to wastewater section the level of Ammonia was greater than 50% higher than last year. The levels of detergents and FOGs were greater than 50% higher than last year. These elevated detergents and FOG levels are linked to one high result in June 2013. There was no source of the elevated levels identified in June 2013. As the samples are grab samples there can be a variation in concentrations throughout the year. All ELVs were complied with during the year at the discharge point.
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)

Is it applicable?	no
Have you been granted an exemption ?	
If applicable which activity class applies (as per Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being used ?	

4. WASTE IMPORTED/ACCEPTED ONTO SITE

[Guidance on waste imported/accepted onto site](#)

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	
--	--

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

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : W0183 | Facility Name : Greenstar Limited | Filename : W0183_2013.xls | Return Year : 2013 |

28/03/2014 08:50

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

POLLUTANT		RELEASERS TO AIR			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	METHOD		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
						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

POLLUTANT		RELEASERS TO AIR			Please enter all quantities in this section in KGs			
No. Annex II	Name	M/C/E	METHOD		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
						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)

POLLUTANT		RELEASERS TO AIR			Please enter all quantities in this section in KGs			
Pollutant No.	Name	M/C/E	METHOD		Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
						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: Please enter summary data on the quantities of methane flared and / or utilised	Greenstar Limited				Facility Total Capacity m3 per hour
	T (Total) kg/Year	M/C/E	Method Used		
			Method Code	Designation or Description	
Total estimated methane generation (as per site model)	0.0				N/A
Methane flared	0.0				0.0 (Total Flaring Capacity)
Methane utilised in 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 Limited | Filename : W0183_2013.xls | Return Year : 2013 |

28/03/2014 08:50

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

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

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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

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

RELEASES TO WATERS						Please enter all quantities in this section in KGs			
POLLUTANT		Method Used				QUANTITY			
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](#)

| PRTRef : W0183 | Facility Name : Greenstar Limited | Filename : W0183_2013.xls | Return Year : 2013 | 28/03/2014 08:50

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
						0.0	0.0	0.0

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

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

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
238	Ammonia (as N)	M	PER	Based on an estimate of water used in the wheel wash. Analysis is ISO accredited		47.87	47.87	0.0
303	BOD	M	PER	Based on an estimate of water used in the wheel wash. Analysis is ISO accredited		832.5	832.5	0.0
306	COD	M	PER	Based on an estimate of water used in the wheel wash. Analysis is ISO accredited		1607.5	1607.5	0.0
308	Detergents (as MBAS)	M	PER	Based on an estimate of water used in the wheel wash. Analysis is ISO accredited		1.965	1.965	0.0
314	Fats, Oils and Greases	M	PER	Based on an estimate of water used in the wheel wash. Analysis is ISO accredited		194.7	194.7	0.0
343	Sulphate	M	PER	Based on an estimate of water used in the wheel wash. Analysis is ISO accredited		641.68	641.68	0.0
240	Suspended Solids	M	PER	Based on an estimate of water used in the wheel wash. Analysis is ISO accredited		569.0	569.0	0.0

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

4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

| PRTR# : W0183 | Facility Name : Greenstar Limited | Filename : W0183_2013.xls | Return Year : 2013 |

28/03/2014 08:50

SECTION A : PRTR POLLUTANTS

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

* 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)

POLLUTANT		METHOD			Please enter all quantities in this section in KGs		
RELEASES TO LAND		METHOD			QUANTITY		
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
						0.0	0.0

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

(PPT) Facility Name: Greenstar Limited | Filename: W0183_2013.xls | Return Year: 2013

28/03/2014 08:30

Please enter all quantities on this sheet in Tonnes

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Lic. Waste - Name and Licence/Permit No of Destination Facility Lic. Waste - Name and Licence/Permit No of Receiver/Disposer	Lic. Waste - Address of Next Destination Facility Lic. Waste - Address of Receiver/Disposer	Name and Licence / Permit No. and Address of Final Recycler / 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	15 01 02	No	94.6	plastic packaging	R5	M	Weighted	Offsite in Ireland	Polymer Recovery Ltd,WFP-LS-09-0007-01 Polymer Recovery Ltd East Canal road Portarlinton Business Park, Portarlinton Ireland	Polymer Recovery Ltd East Canal road Portarlinton Business Park, Portarlinton Ireland		
Within the Country	15 01 03	No	29.6	wooden packaging	R3	M	Weighted	Offsite in Ireland	Max Pallet Services Ltd,Not Required Killarney Waste Disposal,W217-01	Colemanstown,Rathcoole,Co Dublin,Ireland		
Within the Country	15 01 06	No	10.64	mixed packaging	R5	M	Weighted	Offsite in Ireland	Greenstar Limited,W0053-03 Multi Metals,WFP-WW-09-0014-01	Wicklow,Ireland		
Within the Country	15 01 06	No	5091.47	mixed packaging	R5	M	Weighted	Offsite in Ireland	Greenstar Limited,W0053-03 Multi Metals,WFP-WW-09-0014-01	Wicklow,Ireland		
Within the Country	16 01 03	No	27.24	end-of-life tyres mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17	R5	M	Weighted	Offsite in Ireland	Greenstar Limited,W0053-03 Multi Metals,WFP-WW-09-0014-01	Wicklow,Ireland		
Within the Country	17 01 07	No	1908.04	01 06	R5	M	Weighted	Offsite in Ireland	Greenstar Limited,W0053-03 Riita Environmental Ltd,W0192-03 Block 402 Greenogue Business Park Rathcoole Co. Dublin	Fassaroe Bray,Co Wicklow,Ireland		
Within the Country	19 09 02	No	9.92	sludges from water clarification	R3	M	Weighted	Offsite in Ireland	Greenstar Holdings Ltd,W0165-02 Greenogue Business Park Rathcoole Co. Dublin	Block 402 Greenogue Business Park Rathcoole Co. Dublin,Ireland		
Within the Country	19 12 07	No	490.3	wood other than that mentioned in 19 12 06	R3	M	Weighted	Offsite in Ireland	Acorn Recycling,W0249-01 Bord na Mona,W0201-03	Tipperary,Ireland		
Within the Country	19 12 07	No	772.88	wood other than that mentioned in 19 12 06	R3	M	Weighted	Offsite in Ireland	Bord na Mona,W0201-03	Drehid Landfill,Carbury,Co Kildare,Ireland		
Within the Country	19 12 07	No	169.16	wood other than that mentioned in 19 12 06	R3	M	Weighted	Offsite in Ireland	Boomerang Recycling,WCPKK342/06	Mill Road,Thurles,Tipperary,Ireland		
Within the Country	19 12 07	No	1453.08	wood other than that mentioned in 19 12 06	R3	M	Weighted	Offsite in Ireland	Eirebloc,CK(S) 503/07	Lissarda,Co. Cork,Ireland		
Within the Country	19 12 07	No	868.72	wood other than that mentioned in 19 12 06	R3	M	Weighted	Offsite in Ireland	Greenstar Holdings Ltd,W0165-02	Ballynagrán,Coolbeg & Kildara,Co. Wicklow,Ireland		
Within the Country	19 12 07	No	561.8	wood other than that mentioned in 19 12 06	R3	M	Weighted	Offsite in Ireland	Greenstar Holdings Ltd,W0146-02	Knockharley Navan,Co. Meath,Ireland		
Within the Country	19 12 09	No	1655.2	minerals (for example sand, stones)	R3	M	Weighted	Offsite in Ireland	Bord na Mona,W0201-03	Kildare,Ireland		
Within the Country	19 12 09	No	134.02	minerals (for example sand, stones)	R3	M	Weighted	Offsite in Ireland	Marakesh Landfill,W0048-01	Kilmyry South,Bray,Co. Wicklow,Ireland		
Within the Country	19 12 09	No	12813.2	minerals (for example sand, stones)	R3	M	Weighted	Offsite in Ireland	Greenstar Holdings Ltd,W0146-02	Knockharley Navan,Co. Meath,Ireland		
Within the Country	19 12 09	No	7647.28	minerals (for example sand, stones)	R3	M	Weighted	Offsite in Ireland	Greenstar Holdings Ltd,W0165-02	Ballynagrán,Coolbeg & Kildara,Co. Wicklow,Ireland		
Within the Country	19 12 09	No	1551.96	minerals (for example sand, stones)	R3	M	Weighted	Offsite in Ireland	Greenstar Limited,W0053-03	Fassaroe Bray,Co. Wicklow,Ireland		
Within the Country	19 12 09	No	41.335	minerals (for example sand, stones)	R3	M	Weighted	Offsite in Ireland	Bailey Waste Recycling (Greenstar Ltd),WPT-FG-08-0002-01	Rosemount, Ballycoolin, Dublin 11,Ireland		
Within the Country	19 12 10	No	1135.42	combustible waste (refuse derived fuel) other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R1	M	Weighted	Offsite in Ireland	Irish Cement,IE-GHG043-05	Dublin 11,Ireland		
Within the Country	19 12 12	No	104.7	11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R13	M	Weighted	Offsite in Ireland	Greyhound Recycling & Recovery,W0205-01	Crag Ave.,Clondalkin,Dublin 22,Ireland		
Within the Country	19 12 12	No	13942.79	11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R1	M	Weighted	Offsite in Ireland	Indaver WMF,W0167-02	Carlanstown,Duleek,Co Meath,Ireland		
Within the Country	19 12 12	No	427.96	11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	R13	M	Weighted	Offsite in Ireland	Panda,W039-02	Ballymount Cross,Tallaght,Dublin 24,Ireland		
Within the Country	19 12 12	No	6953.22	11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D5	M	Weighted	Offsite in Ireland	Greenstar Holdings Ltd,W0146-02	Knockharley Navan,Co. Meath,Ireland		
Within the Country	19 12 12	No	281.88	11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D5	M	Weighted	Offsite in Ireland	Greenstar Holdings Ltd,W0165-02	Ballynagrán,Coolbeg & Kildara,Co. Wicklow,Ireland		
Within the Country	19 12 12	No	136.32	11	R13	M	Weighted	Offsite in Ireland	Greenstar Limited,W0053-03	Fassaroe Bray,Co. Wicklow,Ireland		
Within the Country	20 01 08	No	2081.68	biodegradable kitchen and canteen waste	R3	M	Weighted	Offsite in Ireland	Barna Waste,W0106-02 Clonmel Waste Disposal Ltd	Carrowbrowne,Headford Rd,Galway,Ireland		
Within the Country	20 01 08	No	195.4	biodegradable kitchen and canteen waste	R3	M	Weighted	Offsite in Ireland	OTCo Composting,WFP-CW-10-0003-01	Tipperary,Ireland		
Within the Country	20 01 08	No	126.18	biodegradable kitchen and canteen waste	R3	M	Weighted	Offsite in Ireland	Davis Recycling at Hammond Lane Metal Co Ltd,WFP-CK-10-0077-02	Ballynagrán,Coolbeg & Kildara,Co. Wicklow,Ireland		
Within the Country	20 01 40	No	1387.3	metals	R4	M	Weighted	Offsite in Ireland	Clearcricce,WCP-LK-08-589-01 Multi Metals,WFP-WW-09-0014-01	...Ringaskiddy,Co Cork,Ireland		
Within the Country	20 01 40	No	921.46	metals	R4	M	Weighted	Offsite in Ireland	Clearcricce,WCP-LK-08-589-01	Ballysimon Road,Limerick,Ireland		
Within the Country	20 01 40	No	273.0	metals	R4	M	Weighted	Offsite in Ireland	Multi Metals,WFP-WW-09-0014-01	...Bliesington,Co Wicklow,Ireland		
Within the Country	20 03 01	No	1534.14	mixed municipal waste	D5	M	Weighted	Offsite in Ireland	Bord na Mona,W0201-03	Drehid Landfill,Carbury,Co Kildare,Ireland		
Within the Country	20 03 01	No	1624.46	mixed municipal waste	R13	M	Weighted	Offsite in Ireland	Greyhound Recycling & Recovery,W0205-01	Crag Ave.,Clondalkin,Dublin 22,Ireland		
Within the Country	20 03 01	No	22.4	mixed municipal waste	R1	M	Weighted	Offsite in Ireland	Indaver WMF,W0167-02	Carlanstown,Duleek,Co Meath,Ireland		
Within the Country	20 03 01	No	18.06	mixed municipal waste	R13	M	Weighted	Offsite in Ireland	Greenstar Limited,W0053-03	Fassaroe Bray,Co. Wicklow,Ireland		
Within the Country	20 03 03	No	1465.58	street-cleaning residues	D5	M	Weighted	Offsite in Ireland	Bord na Mona,W0201-03	Drehid Landfill,Carbury,Co Kildare,Ireland		
Within the Country	20 03 03	No	1116.06	street-cleaning residues	D5	M	Weighted	Offsite in Ireland	Greenstar Holdings Ltd,W0146-02	Knockharley Navan,Co. Meath,Ireland		
Within the Country	20 03 03	No	2080.74	street-cleaning residues	D5	M	Weighted	Offsite in Ireland	Greenstar Holdings Ltd,W0165-02	Ballynagrán,Coolbeg & Kildara,Co. Wicklow,Ireland		
Within the Country	20 03 07	No	42.78	bulky waste	R13	M	Weighted	Offsite in Ireland	Greyhound Recycling & Recovery,W0205-01	Crag Ave.,Clondalkin,Dublin 22,Ireland		
Within the Country	20 03 07	No	26.1	bulky waste	R13	M	Weighted	Offsite in Ireland	Greenstar Limited,W0053-03	Fassaroe Bray,Co. Wicklow,Ireland		
Within the Country	13 02 08	Yes	0.86	other engine, gear and lubricating oils	R3	M	Weighted	Offsite in Ireland	ENVA Ireland,W0184-01	Clonminam IE,Portlaoise,Co Laois,Ireland		Clonminam IE,Portlaoise,Co Laois,Ireland
Within the Country	16 05 04	Yes		gases in pressure containers (including 1.56 halons) containing dangerous substances	R4	M	Weighted	Offsite in Ireland	BOC Gas Dublin..	Bluebell,Dublin 12,Ireland		Bluebell,Dublin 12,Ireland

APPENDIX 2

Procedures List



Doc. No.: Control	Revision No.: As Shown	Issue Date: As Shown
Approved By:	Malcolm Dowling – Group Environmental Manager Oliver Callan – Group H&S Manager	Page 1 of 5

Integrated Procedures - IP

IP-01	Document & Record Control Procedure	Rev 01, 05/07/10
IP-02	Health & Safety Risk Assessment Procedure	Rev 01, 05/07/10
IP-03	Environmental Aspects & Impacts Procedure	Rev 02, 09/09/13
IP-04	Legal & Regulatory Requirements Procedure	Rev 02, 09/09/13
IP-05	Objectives, Targets & Management Programmes Procedure	Rev 02, 09/09/13
IP-06	Competence, Training & Awareness Procedure	Rev 03, 15/04/13
IP-07	Communication & Consultation Procedure	Rev 01, 05/07/10
IP-08	Monitoring, Measurement & Improvement Procedure	Rev 01, 05/07/10
IP-09	Evaluation of Compliance Procedure	Rev 02, 15/09/11
IP-10	Non Conformances, Corrective/Preventive Actions Procedure	Rev 03, 01/02/11
IP-11	Internal Audit Procedure	Rev 03, 28/05/12
IP-12	Management Review Procedure	Rev 01, 05/07/10
IP-13	Control of Contractors/Visitors Procedure	Rev 03, 08/06/12
IP-14	Health & Safety & Environmental Monitoring	Rev 02, 29/10/10
IP-15	Emergency Preparedness & Response Procedure	Rev 02, 01/02/11
IP-16	Accident Prevention Procedure	Rev 03, 30/06/13

Safety Procedures - SP

SP-01	Permit to Work Procedure	Rev 02, 03/05/12
SP-02	Maintenance & Calibration Procedure	Rev 03, 04/04/11
SP-03	Mobile Plant Procedure	Rev 01, 05/07/10
SP-04	Fork Truck Procedure	Rev 01, 05/07/10
SP-05	Operation of Fixed Plant Procedure	Rev 01, 05/07/10
SP-06	Lock Out / Tag Out Procedure	Rev 01, 05/07/10
SP-07	Health & Safety Notification Procedure	Rev 01, 05/07/10
SP-08	Motor Claim Notification Procedure	Rev 01, 01/02/11
SP-09	MSW Shredder routine Maintenance & Clearing of Blockages Procedure (SCGT)	Rev 01, 01/12/11
SP-10	Weighbridge & Tipping Procedure (SCGT)	Rev 01, 01/12/11
SP-11	Cleaning of Washing Bay (Greenogue)	Rev 01, 05/05/12
SP-12	Ballymount CRF Safe Systems of Work	Rev 01, 23/09/13



Doc. No.: Control	Revision No.: As Shown	Issue Date: As Shown
Approved By:	Malcolm Dowling – <i>Group Environmental Manager</i> Oliver Callan – <i>Group H&S Manager</i>	Page 2 of 5

Environmental Procedures - EP

EP-01	Office Waste & Energy Management Procedure	Rev 01, 05/07/10
EP-02	Decommissioning and Aftercare Procedure	Rev 02, 14/09/11
EP-03	Environment Communications Procedure	Rev 03, 16/10/13
EP-04	Waste Permits & Licences Procedure	Rev 01, 05/07/10
EP-05	Waste Acceptance Procedure	Rev 01, 05/07/10
EP-06	Unacceptable Waste Procedure	Rev 01, 05/07/10
EP-07	Waste & Material Storage Procedure	Rev 01, 05/07/10
EP-08	Waste Processing Procedure	Rev 01, 05/07/10
EP-09	Site Infrastructure Procedure	Rev 01, 05/07/10
EP-10	Nuisance Management Procedure (Site Specific)	(Site Specific)
EP-11	Civic Amenity Site Procedure	Rev 01, 05/07/10

Doc. No.: Control	Revision No.: 02	Issue Date: 1 st February 2011
Approved By:	Malcolm Dowling – Group Environmental Manager Oliver Callan – Group H&S Manager	Page 3 of 5

Amendment History

Date	Amendment No.	Procedure No:	Revision No:	Comment	Authorised By
05.07.10	01	All	01	Initial Issue	M.D & O.C
13.09.10	02	EP-03	02	Issue of Incident Reports	M.D
20.09.10	03	IP-10	02	Env issues not logged on WIMS Database	M.D
29.10.10	04	IP-13	02	Use of M&M equipment by contractors	M.D & O.C
29.10.10	05	IP-14	02	Use of M&M equipment by contractors	M.D & O.C
29.10.10	06	SP-02	02	Inclusion of Maintenance Schedule	M.D & O.C
05.11.10	07	IP-04	02	Inclusion of other requirements	S.B & O.C
01.02.11	08	SP-08	01	Inclusion of new procedure	O.C
01.02.11	09	IP-10	03	Inclusion of SP-08	O.C
01.02.11	10	IP-15	02	Removal of SF-022	O.C
01.02.11	11	Contents	As shown	EP-10 Site Specific	M.D & O.C
01.02.11	12	IP-06	02	Addressing Agency Staff needs	M.D & O.C
01.02.11	13	Circ List	02	Amendment to document control	M.D & O.C
04.04.11	14	SP-02	03	Inclusion of Site Specific Maintenance schedules	O.C
07.06.11	15	IP-11	02	Inclusion of H&S & Env Internal Audit Schedules	M.D & O.C
14/09/11	16	EP-02	02	Inclusion of decommissioning of plant/equipment	S.B
15/09/11	17	IP-09	02	Inclusion of Statutory Inspections	O.C
01/12/11	18	SP-09	01	Inclusion of new procedure for SCGT	O.C
01/12/11	19	SP-10	01	Inclusion of new procedure for SCGT	O.C
03/05/12	20	SP-01	02	Amendment to remove SF 028	O.C
05/05/12	21	SP-11	01	Inclusion of a new procedure for Greenogue	O.C
28/05/12	22	IP-11	03	General Amendments to internal audit procedure	M.D & O.C
08/06/12	23	IP-13	03	Grammatical amendment	M.D & O.C
15/04/13	24	IP-06	03	Agency staff – sign-off record sufficient proof of training. TMS optional	M.D & O.C

Doc. No.: Control		Revision No.: 02	Issue Date: 1st February 2011
Approved By:	Malcolm Dowling – <i>Group Environmental Manager</i>		Page 4 of 5
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Date	Amendment No.	Procedure No:	Revision No:	Comment	Authorised By
30/06/13	25	IP-16	1	Inclusion of new procedure	M.D.
09/09/13	26	IP-03	2	Use of Scannell Software Solutions (Enviromanager) instead of IF-03A	M.D & O.C
09/09/13	27	IP-04	3	Use of Scannell Software Solutions (Enviromanager) instead of IF-03A	M.D & O.C
09/09/13	28	IP-05	2	Use of Scannell Software Solutions (Enviromanager) instead of IF-03A	M.D & O.C
16/10/13	29	EP-03	3	Introduction of EPA ALDER Portal	K.B
23/09/13	30	SP-12	1	Introduction of SP-12O.C	



Doc. No.: Control	Revision No.: 02	Issue Date: 1 st February 2011
Approved By:	Malcolm Dowling – <i>Group Environmental Manager</i> Oliver Callan – <i>Group H&S Manager</i>	Page 5 of 5

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