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ANNUAL ENVIRONMENTAL REPORT

GREENSTAR LIMITED.

GOREY BUSINESS PARK, GOREY

COUNTY WEXFORD

LICENCE NO. W0220-01

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 Ltd.				
	W0220-01				
Report No	Date	Status	Prepared By	Reviewed By	
0481505	22/03/2011	Draft	Martina	Michael Watson	
			Gleeson PhD	MA.	
0481505	30/03/2011	Final	Martina Gleeson PhD	Michael Watson MA.	

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1. INTRODUCTION

This is the 2010 Annual Environmental Report (AER) prepared for the Greenstar Ltd. (Greenstar), waste transfer facility at Gorey Business Park, Ramstown, Gorey, County Wexford. This AER describes site activities from the 1st January 2010 to the 31st December 2010.

The contents of the AER is based on Schedule F of the Waste Licence and the report format follows guidelines set in the "Draft Guidance on Environmental Management Systems and Reporting to the Agency" issued by the Agency¹.

¹ EPA (Environmental Protection Agency) 1999 Waste Licensing – Draft Guidance on Environmental Management Systems and Reporting to the Agency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

The facility is located at Gorey Business Park, Ramstown Lower, Gorey, Co Wexford. The site encompasses $2,870 \text{ m}^2$ and is accessed by an internal road serving the Business Park.

There are two interconnected steel portal frame buildings, which encompass approximately $1,000 \text{ m}^2$ and comprise the waste transfer building. The remaining area of the site comprises open yard areas which are paved with concrete.

2.2 Waste Management Activities

The licence allows Greenstar to accept and process 30,000 tonnes of waste per annum, comprising commercial/industrial non-hazardous waste, household waste, and construction and demolition wastes. All waste processing takes place inside the waste transfer building, as specified in Condition 8.1 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: -

- Household Waste (18,000 tonnes),
- Commercial & Industrial and Construction & Demolition (12,000 tonnes).

The key processes carried out at the facility include: -

- Segregation of C&I into different waste streams (paper, cardboard, glass, metal, green waste and wood) for further recovery at an appropriate facility
- Segregation of C&D into clean & dirty waste streams for further recovery purposes
- Bulking up of domestic wastes (mixed municipal waste & dry mixed recyclables) for further recovery or disposal at an appropriate off-site facility.

Household Waste

Residual or black bin household waste arrives in refuse collection vehicles and is transferred from the vehicles into large bulk transporters for consignment to an appropriately licensed landfill. Source segregated household dry recyclables are stored prior to transfer to permitted/licensed off-site recycling facilities.

Commercial and Industrial Waste

Both mixed and segregated commercial waste is collected from commercial outlets. Commercial waste rich in recyclables (paper, cardboard, glass, metal, green waste and wood) is delivered to the facility both by permitted third party hauliers and by Greenstar vehicles. Plastic, card and paper are stored prior to transfer to a suitable permitted/licensed off-site recycling outlet. Biodegradable wastes suitable for composting which is accepted at the facility are sent to an offsite composting facility. The remaining non-recyclable material is bulked and sent to appropriately licensed landfills.

C& D Waste

Waste loads include mixed construction and demolition wastes and soil and stone. The material arrives in skips of varying sizes. The waste loads are inspected and then processed. The majority of the incoming C&D material is recovered and sent off-site either for re-use or recycling. The non-recyclable materials are transferred to a licensed landfill.

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 2.1Existing Plant

No.	Plant	Model	Operational Capacity
1	Loader	Volvo L70D	70 t/hr

3. EMISSION MONITORING

Greenstar implements the environmental monitoring programme specified in the Licence to assess the significance of emissions from site activities. The programme specified in the licence includes groundwater, surface water (discharge from holding tank to percolation area), waste water removed off-site and noise monitoring. Surface water runoff is now directed to a wastewater holding tank and has been incorporated into the waste water monitoring programme as agreed with the Agency. The monitoring locations are shown on Figure 3.1.

The monitoring programme is carried out in accordance with the frequency specified in the Licence. The monitoring results are submitted to the Agency at quarterly intervals. An overview of the monitoring results is presented in this Section, with summary tables included.

3.1 Surface Water/ Waste Water Programme

Surface water generated by rainfall on the paved open yard areas discharges via a petrol/oil interceptor to a waste water holding tank and is removed off site to an appropriate waste water treatment facility.

Schedule C of the Licence requires the monitoring of each consignment of water from the holding tank. On the 27th May 2008 the Agency agreed to reduce the frequency of monitoring from sampling each consignment to quarterly sampling and the parameters should include chloride, ammonia and COD (Ref: W0220-01/ap01eok.doc). The bi-annual monitoring for metals and organohalogens remains the same. The results are consistent with dilute waste water which is suitable for acceptance at a waste water treatment plant. The results are included on Table 3.1.

Parameter	Units	Q1 '10	Q2 '10	Q3 '10	Q4 '10
pН	pH Units	6.43	7.95	7.97	7.62
Conductivity	mS/cm	0.583	0.99	1.171	1.179
COD	mg/l	1025	271	206	360
Total Ammonia	mg/l	9.4	4.03	12.5	8.7
Chloride	mg/l	31.6	51.26	82.5	280.3
Mercury	mg/l	-	< 0.001	-	< 0.001
Arsenic	mg/l	-	< 0.0025	-	< 0.0025
Cadmium	mg/l	-	< 0.0005	-	< 0.0005
Chromium	mg/l	-	0.0024	-	0.0072
Copper	mg/l	-	< 0.007	-	< 0.007
Nickel	mg/l	-	0.004	-	0.009
Selenium	mg/l	-	< 0.003	-	< 0.003
Zinc	mg/l	-	0.007	-	0.071
VOC	μg/l	-	<5	-	<5
SVOC	µg/l	-	<1	-	<1

Table 3.1Waste Water Results 2010

3.2 Ground Water Monitoring

Schedule C of the Licence requires annual groundwater monitoring. There is an on-site well (MW-1), which was installed to provide both a potable and process water supply. Testing of the well indicated that it was not suitable for potable use and it is not used for this purpose, but is used for monitoring purposes. The well location is shown on Figure 3.1. Monitoring was carried out in 5th May 2010 and a summary of the results is included on Table 3.2.

There are no emission limits or trigger levels set in the Licence. The Agency requested that groundwater trigger levels be prepared for this monitoring well. These were prepared and were submitted to the Agency for their approval on the 30th June 2008. The proposed trigger levels were not exceeded. The levels of sodium, sulphate, chloride, orthophosphate, total coliforms and conductivity were above the Interim Guidelines Values (IGV) for unpolluted waters set by the Agency. The IGV levels represent typical background or unpolluted conditions.

These groundwater monitoring results for 2010 are similar to those measured during previous monitoring events and the elevated levels are not related to current site activities. The site was formerly occupied by a tannery, where salt was used in the curing process. Tanneries are recognised sources of soil and groundwater contamination and the elevated levels are consistent with the historic site use, and are not related to the waste transfer activities.

Parameter	Units	MW1	Proposed Trigger Level	IGV
рН	pH Units	6.65	6.88	6.5 – 9
Conductivity	mS/cm	4.768	7.84	1
Temperature	°C	14.2	-	NE
Ammoniacal Nitrogen	mg/l	0.25	-	0.15
Chloride	mg/l	1033.1	2579.38	30
Potassium	mg/l	3.6	6.84	5
Sodium	mg/l	731.3	1631.25	150
Mercury	mg/l	< 0.001	-	0.001
Arsenic	mg/l	< 0.0025	-	0.01
Boron	mg/l	0.032	-	1
Cadmium	mg/l	< 0.0005	-	0.005
Chromium	mg/l	< 0.0015	-	0.03
Copper	mg/l	< 0.007	-	0.03
Lead	mg/l	< 0.005	-	0.01
Nickel	mg/l	< 0.002	-	0.02
Selenium	mg/l	< 0.003	-	NE
Zinc	mg/l	0.04	-	0.1
TOC	mg/l	3	-	NE
Fluoride	mg/l	<0.3	-	1
Sulphate	mg/l	256.37	-	200
ortho Phosphate	mg/l	< 0.06	-	0.03
Nitrate	mg/l	7.3	-	25
Nitrite	mg/l	0.04	-	0.1
TON	mg/l	1.67	-	NE
Dissolved Oxygen	mg/l	7	-	NAC
Total Cyanide	mg/l	< 0.04	-	0.01
Total Alkalinity	mg/l	86	-	NAC
Total Phenols	mg/l	<0.18	-	NE
Total Solids	mg/l	2067	-	NE
VOC	μg/l	<6	-	NE
SVOC	μg/l	<10	-	NE
Faecal Coliforms	cfu/100ml	<1	-	0
Total Coliforms	cfu/100ml	9	-	0

3.3 Noise Monitoring

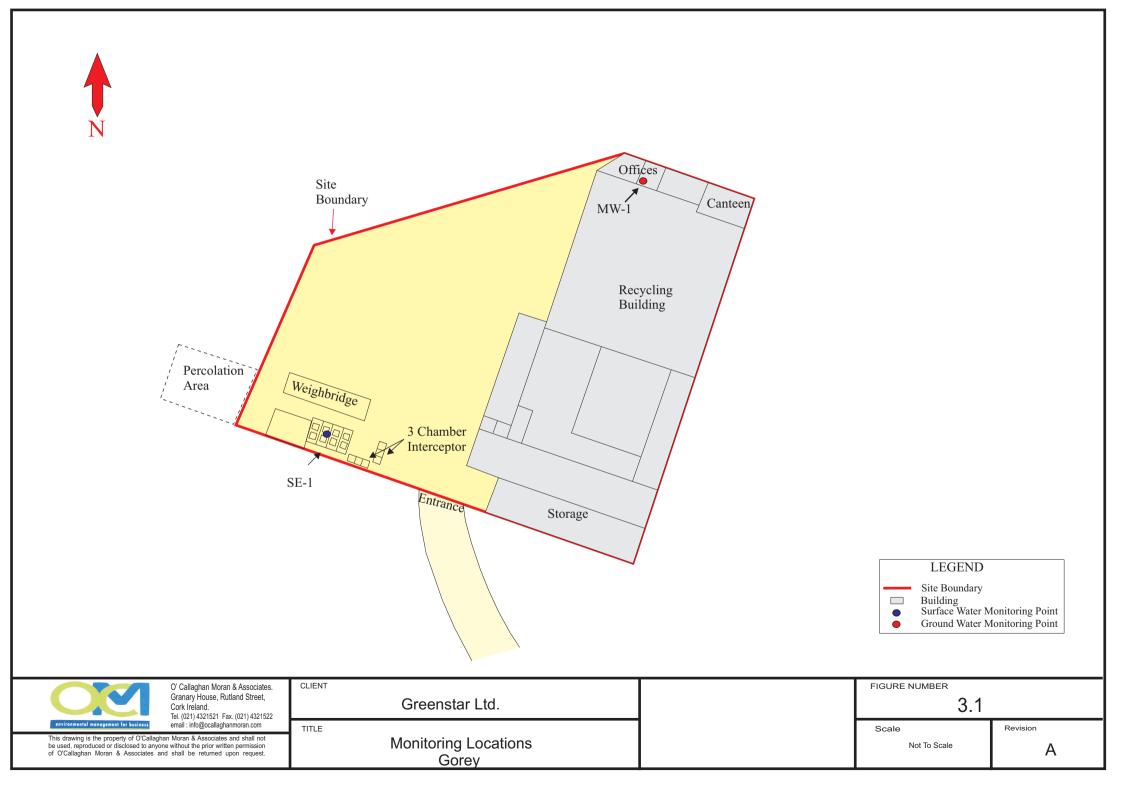
Condition 6.17 of the Licence requires an annual noise survey which was conducted in May 2010 at three offsite noise monitoring locations, N-1, N-2 and N-3. The survey concluded that the facility was fully compliant with the licence requirements. A summary of the noise results is shown on Table 3.3.

The licence sets a daytime noise limit of 55 dB with respect to offsite noise sensitive locations. At station N1, the only station not located within the boundaries of Gorey Business Park, no noise emissions were audible from the facility.

Station	Time	LAeq 30	LAF10 30	LAF90 30	Specific	Noise audible
		_{min} dB	_{min} dB	_{min} dB	level* dB	
N1	1513-	66	66	45	<36	No facility emissions audible.
	1543					Intermittent road traffic dominant when present. Road traffic to N also audible. Rustling vegetation. Bird song/calls.
N2	1437- 1507	54	55	51	<42	No emissions audible from facility. Continuous air handling emissions audible at nearby commercial
						premises. Road traffic audible to N. Intermittent traffic through commercial park.
N3	1400- 1430	55	57	43	46-50	No emissions audible from facility, apart from front end loader in use 1421-1424. Air conditioning cassette on nearby facade dominant from start interval to 1406, and 1422-1428. Sporadic vehicle movements locally,
+ 0 - 10 - 1						and intermittent movements across commercial park.

Table 3.3Noise Monitoring Results 2010

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



4. SITE DEVELOPMENT WORKS

4.1 Engineering Works

A large area within the waste transfer building was re-concreted in 2010 as part of routine upgrading works. Further concreting was carried out in February 2011 to repair cracks in the yard area. It was also proposed to install a drain to channel waste water which arises from skips emptying in the shed to the on-site storage tank for consignment off site to an appropriate facility. Agreement was approved by the Agency in relation to the proposed works which are complete since February 28th 2011.

4.2 Energy Efficiency

An energy audit was carried out in May 2008. The facility is not a significant consumer of resources. The current carbon footprint is approximately 29 tonnes, mostly based on the diesel usage, which is considered negligible in context of national emissions. Table 4.1 presents an estimate of the resources used on-site from January to December 2010.

Table 4.1Estimate of Resources Used On-Site

Resources	Quantities
Diesel	6,000 litres
Odour Control Additive	100 litres
Hydraulic Oil	50 litres
Engine Oil	50 litres
Electricity	22,497 units

4.3 Tank and Pipeline Integrity Testing

As per Condition 6.13 of the Licence tank and pipeline testing is to be carried out every three years. This testing was carried out in September 2009 and found the tank to be fit for purpose. The testing will be carried out again in 2012 in accordance with Licence conditions.

Table 5.1 shows the total quantities of waste received and consigned from the facility from January to December 2010. Table 5.2 shows the waste quantities for 2009 while the quantities for previous years are shown on Table 5.3. A breakdown of the waste types is provided in accordance with the European Waste Catalogue and Hazardous Waste (EWC/HWL) list.

The total quantity of waste accepted was 11,650.25 tonnes with 11,574.57 tonnes consigned. The difference (approximately 76 tonnes) remained onsite at the end of the reporting period pending consignment off site. The recycling rate for the facility is approximately 36.4%.

All the wastes consigned went to appropriately licensed or permitted recovery and disposal facilities. Copies of all Waste Facility Permits and Waste Licences of each destination outlet are retained on site.

EWC	Description	Waste In	Waste Out
15 01 01	Cardboard Packaging	47.00	
15 01 06	Mixed Packaging	1,393.00	1,263.58
15 01 07	Glass Packaging	5.00	
17 01 07	Mixture of concrete, bricks, tiles, ceramics from C&D waste	133.00	278.00
17 05 04	Soil & Stone from C&D waste	44.00	
19 12 07	Wood	3.00	57.46
19 12 12	Mixed Residual Waste from mechanical treatment	5,065.00	8,350.84
20 01 01	Newspaper and Pamphlets	10.00	
20 01 02	Glass	20.00	
20 01 08	Commercial Food Waste	68.00	
20 01 38	Wood	56.00	7.00
20 01 40	Metal	4.00	20.58
20 03 01	Mixed Residual Waste	1,777.00	
20 03 07	Bulky Waste	3,026.00	1,595.00
	Total Received	11,651.00	
	Total Consigned		11,572.46
	Total Recovery		4,213.93
	Total Disposed		7,358.53
	Recovery Rate		36.41%

Table 5.1Waste Received & Consigned 2010

EWC	Description	Waste In	Waste Out
15 01 01	Cardboard Packaging	58.48	
15 01 02	Plastic Packaging	1.66	
15 01 06	Mixed Packaging	1,105.48	1,020.60
15 01 07	Glass Packaging	12.81	
17 01 07	C&D Inert Mixed	216.81	274.04
17 05 04	C&D Inert Mixed Soil & Stones	27.00 30.32	
19 12 07	Wood		34.88
19 12 12	C&I Dry Mixed MSW Municipal Mixed	4.86	2,254.54 10,051.67
20 01 02	Glass	1.38	
20 01 38	Wood	46.37	10.20
20 01 40	Metal	4.01	20.06
20 03 01	MSW Municipal Mixed	9,449.96	
20 03 07	C&I Dry Mixed	2,517.47	
	Total Received	13,476.60	
	Total Consigned		13,665.99
	Total Recovery		3,614.32
	Total Disposed		10,051.67
	Recovery Rate		26.4%

Table 5.2Waste Received & Consigned 2009

Table 5.3Previous Years Waste Received and Consigned

	2009	2008	2007	2006
Total Received	13,476.60	15,885.19	18,978.75	23,944.64
Total Consigned	13,665.99	16,036.83	19,780.56	25,051.15
Total Recovery	3,614.32	7,421.29	9,229.13	15,895.52
Total Disposed	10,051.67	8,615.54	10,551.43	9,155.63
Recovery Rate	26.4%	46.28%	46.66%	63%

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

There were no incidents during the reporting period.

6.2 Register of Complaints

Greenstar maintains a register of complaints received in accordance with Condition 11.9 of the waste licence. No complaints were received in 2010.

7. ENVIRONMENTAL DEVELOPMENT & CONTROL

7.1 Environmental Management Programme Report

The facility operates under a comprehensive Environmental Management System which is ISO 14001 approved. The facility is 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 success on meeting targets is discussed in the AER as per condition 2.2.2 of the Licence. 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 1.

7.1.1 Schedule of Objectives 2010

The objectives that were achieved during this reporting period are outlined in Table 7.1. An evaluation of what has been achieved to date is presented below.

Objective 1 - Awareness and Training

Training is carried out as required in compliance with Licence conditions. No training was required in 2010.

Objective 2 – Energy & Resource Consumption

The facility is not a significant user of resources; however the amount of electricity used has decreased slightly from 2009.

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

All procedures were reviewed as part of the Integrated Management System. The facility did not create a nuisance in 2010.

Objective 4 – Pollution Prevention

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

Objective 5 – Customer Communication & Awareness

The Advance Manufacture Communication System (ACMS) went live in February 2010 which has improved communication and saved time on bin rounds as it gives the

driver a clearer route. The facility also implemented a weekly text service with customers to make them aware of the collection day and which bin to leave out.

Objective 6 – Operations Management

A bin for segregating metal has been introduced at the facility; this has improved the recycling rate at the facility from 26% in 2009 to 36% in 2010.

7.1.2 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.

7.2 Management Structure

Details of the site management structure are given below.

Name:	Denis Mullally
Responsibility:	Operations Manager
Experience:	7 years waste management experience
Name:	Sean Doran
Responsibility:	Facility Manager/Supervisor
Experience:	7 years waste management experience
Name:	Thomas O'Leary
Responsibility:	Operative / Machinery / Loader / Driver
Experience:	7 years waste management experience

Table 7.1:Schedule of Objective and Targets 2010

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. Spill training, inclusive of a spill scenario to be carried out.	Site Management	Ongoing
2	Energy & Resource Consumption Summarise energy and resource usage on a quarterly basis with a view to reducing consumption Review and implement findings of Energy Audit		Site Management	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.	Site Management	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.		Completed
5	Customer Communication & Awareness	Communication & Improve Customer Recycling Rates through the implementation of		Completed
6	Operations Management	Review segregation organisation within the Material Recovery Building	Site Management	Completed

Table 7.2:Schedule of Objective and Targets 2011

No	Objective	Target	Responsibility	Timescale
1	Infrastructure	Relay the affected areas of concrete in the open yard areas	Site Management	Q1 2011
2	Drainage Infrastructure	Drainage Infrastructure Install a drain to divert the water accumulating from skips in the Waste Transfer Building		Q1 2011
3	Review and Assess the Effectiveness of Nuisance Control Procedures	Continually review and assess all nuisance control procedures to		Q1 2012
4	Pollution Prevention	tion 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.		Q1 2012

7.3 Communications Programme

Condition 2.2.2.7 requires the establishment of a Communications Programme. Greenstar is committed to setting the standard in waste management and ensuring environmental compliance in all operations. In addition, Greenstar's updated Environmental and Health & Safety Policy makes a specific commitment to ensuring that the policy itself and records are available to the public and interested parties.

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.

7.4 Nuisance Control

Greenstar has contracted ISS Ltd to carry out vermin inspections at the facility. ISS Ltd visit the facility monthly and inspect for vermin and inspect and maintain the 9 bait boxes and 4 mice boxes on the site. The facility has not had any problem with fly infestations, but should a problem occur, this can be dealt with by ISS Ltd on a call out basis.

7.5 Water Demand

The only water used on the site is for sanitary purposes in the toilets (2 No. staff), the canteen and occasionally for the odour suppression system. The odour suppression system consists of five roof mounted nozzles which spray a fine mist over the MSW storage area when MSW is brought to the facility. The volume of odour suppressants used in 2010 was 100 litres. The volume of water used at the facility is not quantifiable at this time, but is very small.

7.6 Waste Generated On-site

The facility is manned by two full-time staff and therefore does not generate a large amount of canteen or office waste. All waste generated is source separated and removed off site for recycling or disposal.

Storm water is generated by rainfall on the roof of the process building and rainfall on the open paved areas of the site. This run-off is stored in a holding tank until it is tankered off site. Since the 21st December 2006 the contents of the septic tank have been pumped into the holding tank and tankered off-site. In 2010, 25.04 tonnes of waste water was removed off site.

7.7 Pollution Emission Register

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 2.

7.8 Financial Provision & Measures to Minimise Potential Environmental Damage

Greenstar Ltd. has accrued over $\notin 3,000,000$ in funds, to provide for any potential environmental liabilities. Greenstar Ltd. has adequate insurance cover for environmental liabilities to $\notin 6,350,000$ for any one occurrence, which will apply to "sudden identifiable and unintended incidents".

The facility has an Environmental Management Programme (EMP) in place. The EMP serves as a guidance document for facility staff and describes operational control and management practices that are applied at the facility. The EMP is also the core element of the Environmental Management System (EMS) for the facility and is designed to ensure that management of site activities complies with regulatory requirements and best practice. The EMS includes a detailed Emergency Response Procedure which sets out the steps to be taken in the event of an incident at the facility with the potential to cause environmental damage. Greenstar also implements a comprehensive monitoring programme which will highlight any potential environmental incidents with the potential to cause environmental damage.

8. OTHER REPORTS

No other reports were requested by the Agency during the reporting period.

APPENDIX 1

Procedures List



greenstar setting the standard				Procedure Listing
Doc. No.: Control		Revision No.: As Shown	Issue Date:	As Shown
Approved By:	Malcolm Dow	ling – Group Environmental Manager	Page 1 of 2	
	Oliver Callan	– Group H&S Manager		

Integrate	d 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				



greenstar setting the standard			Circulation List
Doc. No.: Control		Revision No.: 01	<i>Issue Date: 01st October 2009</i>
Approved By: Malcolm Dow		ling – Group Environmental Manager	Page 2 of 2
	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

APPENDIX 2

European Pollutant Release and Transfer Register

Version 1.1.11



| PRTR# : W0220 | Facility Name : Waste Recycling Centre | Filename : W0220_2010.xls | Return Year : 2010 |

Guidance to completing the PRTR workbook

AER Returns Workbook

REFERENCE YEAR 2010

1. FACILITY IDENTIFICATION

Parent Company Name	Greenstar Limited
	Waste Recycling Centre
PRTR Identification Number	
Licence Number	W0220-01
Waste or IPPC Classes of Activity	
No.	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.
	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.
	Recycling or reclamation of metals and metal compounds.
	Recycling or reclamation of other inorganic materials.
Address 1 Address 2	Ramstown
	Co Wexford
Address 4	
Country	Ireland
Coordinates of Location	
River Basin District	
NACE Code	
	Recovery of sorted materials
AER Returns Contact Name	
AER Returns Contact Email Address	suzanne.byrne@greenstar.ie
AER Returns Contact Position	Environmental Executive
AER Returns Contact Telephone Number	01-2947949
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	
User Feedback/Comments	
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 200	02)
Is it applicable?	
Have you been granted an exemption ?	
If applicable which activity class applies (as per	
Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being	
used ?	

4.1 RELEASES TO AIR Link to previous years emissions data

| PRTR# : W0220 | Facility Name : Waste Recycling Centre | Filename : W0220_2010.xls | Return Year : 2010 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

	RELEASES TO AIR			Please enter all quantities	in this section in KG	às	
POLLUTANT		М	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	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 KGs		
PO	М	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	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 KGs			
PO	LLUTANT	ME	THOD			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

ditional Data Requested from Landfill operators										
For the purposes of the National Inventory on Greenhou summary data on landfill gas (Methane) flared or utiliser methane generated. Operators should only report their T(total) KG/yr for Section A: Sector specific PRTR pollut	d on their facilities to accompany the figures for total Net methane (CH4) emission to the environment under									
Landfill:	Waste Recycling Centre				•					
Please enter summary data on the										
quantities of methane flared and / or utilised			Meth	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 RELEAS	ES TO WATERS	Link to previous years emissions data	PRTR# :	W0220 Facility Na	me : Waste Recycling Centre Filena	ume : W0220_2010.xls Ret	urn Yea	ar : 2010		30/03/2011 11:28
SECTION A	: SECTOR SPECIFIC PRTR F	OLLUTANTS	Data on a	mbient monitoring	of storm/surface water or groundw	ater, conducted as part o	f your li	icence requirements, sh	ould NOT be submitted under	AER / PRTR Reporting as t
		RELEASES TO WATERS				Please enter all quar	tities	in this section in K	Gs	
	F	OLLUTANT							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 PRTR POLLUTANTS

	RELEASES TO WATERS				Please enter all quantities in this section in KGs					
PO	LLUTANT						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 C : REMAINING POLLUTANT EMISSIONS (as required in your Licence)

	RELEASES TO WATERS	Please enter all quantities in this section in KGs							
PC	DLLUTANT						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	

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data | PRTR# : W0220 | Facility Name : Waste Recycling Centre | Filename : W0220_2010.xls | Return Y 30/03/2011 11:31

SECTION A : PRTR POLLUTANTS

	OFFSITE TRANSFER OF POLLUTANTS DESTINED FO	R WASTE-WATER TRE	ATMENT OR SEWE	R	Please enter all quantities in this section in KGs				
	POLLUTANT			THOD	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) 00	

* 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)

OF	FFSITE TRANSFER OF POLLUTANTS DESTINED FOR	/ER	Please enter all quantities in this section in KGs						
	POLLUTANT			THOD	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	

4.4 RELEASES TO LAND

Link to previous years emissions data | PRTR# : W0220 | Facility Name : Waste Recycling Centre | Filename : W0220_2010.xls | Return Year : 2010 |

30/03/2011 11:33

SECTION A : PRTR POLLUTANTS

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

	E CARACTER E		Please enter all quan	Gs					
			METHO	D		QUANTITY			
			Method Used						
Pollutant No.	Name	M/C/E	Method Co		Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidenta	al) KG/Year
							0.0	0.0	0.0

AER Returns Workbook

			Please enter all quantities on this sheet in Tonnes								
			Quantity (Tonnes per Year)			Method Used		Haz Waste : Name and Licence/Permit No of Next Destination Facility <u>Haz Waste</u> : Name and Licence/Permit No of Recover/Disposer	<u>Haz Waste</u> : Address of Next Destination Facility <u>Non Haz Waste</u> : Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destina i.e. Final Recovery / Disposal S (HAZARDOUS WASTE ONL)
	European Waste	Useendaria		Waste Treatment		Made and the ad	Location of				
ransfer Destination	Code	Hazardous	Description of Waste	Operation	M/C/E	Method Used	Treatment		Fassaroe.Brav.Co.		
lithin the Country	15 01 06	No	1123.34 mixed packaging	R13	М	Weighed	Offsite in Ireland	Greenstar Limited,W0053-03 Waterford County			
ithin the Country	15 01 06	No	140.24 mixed packaging mixture of concrete, bricks, tiles and	R3	М	Weighed	Offsite in Ireland	Council,W0189-01	Waterford,.,Ireland		
ithin the Country	17 01 07	No	ceramics other than those mentioned in 17 278.0 01 06	R5	М	Weighed	Offsite in Ireland	Adam Greene,WP 69/08	Killowen Orchard,Portlaw,Co. Waterford,.,Ireland Fassaroe,Bray,Co.		
/ithin the Country	19 12 07	No	57.46 wood other than that mentioned in 19 12 06 other wastes (including mixtures of materials) from mechanical treatment of	R13	М	Weighed	Offsite in Ireland	Greenstar Limited,W0053-03			
lithin the Country	19 12 12	No	wastes other than those mentioned in 19 12 992.31 11 other wastes (including mixtures of	R13	м	Weighed	Offsite in Ireland	Greenstar Limited,W0053-03	Fassaroe,Bray,Co. Wicklow,,Ireland		
			materials) from mechanical treatment of wastes other than those mentioned in 19 12					Greenstar Holdings	Ballynagran,Coolbeg & Kilcandra,Co.		
lithin the Country	19 12 12	No	7358.53 11	D5	М	Weighed	Offsite in Ireland	Ltd.,W0165-02	Wicklow,.,Ireland Fassaroe,Bray,Co.		
ithin the Country	20 01 38	No	7.0 wood other than that mentioned in 20 01 37	R13	М	Weighed	Offsite in Ireland	Greenstar Limited,W0053-03 Molloy Metals	Wicklow,.,Ireland Ballycarney,Enniscorthy,Co.		
ithin the Country	20 01 40	No	20.58 metals	R4	М	Weighed	Offsite in Ireland		Wexford,,Ireland Fassaroe.Bray.Co.		
ithin the Country	20 03 07	No	1595.0 bulky waste	R13	м	Weighed	Offeite in Ireland	Greenstar Limited.W0053-03			

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