



Office of Environmental Enforcement,
Environmental Protection Agency,
McCumiskey House,
Richview,
Clonskeagh,
Dublin 14.

31st March 2009


RE: 2008 Annual Environmental Report – Greenstar Ltd – Greenogue - Reg. No. W0188-01

Dear Sir,

Please find enclosed an original and 2 no. copies of the 2008 Annual Environmental Report (AER) for the above referenced facility. The AER file has been uploaded to the EPA website and is a true copy of the original Annual Environmental Report. The AER/PRTR emissions data reporting workbook has also been uploaded to the EPA website.

Should you have any questions, please call me.

Yours sincerely,


Michael Watson

0804808/MG/JC

Encs.

c.c. Ms. Suzanne Byrne, Greenstar Ltd.,
Mr. James Sowray, Greenstar Ltd - Greenogue Depot



ANNUAL ENVIRONMENTAL REPORT
FOR GREENSTAR LTD
GREENOGUE MATERIALS RECOVERY FACILITY
LICENCE NO. W0188-01
JANUARY 2008 – DECEMBER 2008

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.

31st March 2009

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1. INTRODUCTION

This is the fourth Annual Environmental Report (AER) for the Greenstar Ltd. (Greenstar), Materials Recovery Facility (MRF) at Site 14B, Phase 3, Road 3A, Greenogue Industrial Estate, Rathcoole, Co. Dublin. A waste licence for the facility (Register No.W0188-01) was granted on 5th August 2004 by the Environmental Protection Agency (Agency).

This AER covers the period from the 1st January 2008 to the 31st December 2008. The content of the AER is based on Schedule F of the Waste Licence and the report format follows guidelines set in the “Guidance Note for Annual Environmental Report” issued by the Agency.

2. SITE DESCRIPTION

2.1 Site Location

The site, which encompasses an area of 0.603 ha, is located within the Greenogue Industrial Estate, Rathcoole, County Dublin. The facility comprises one MRF building and ancillary infrastructure, including administration offices, weighbridge, vehicle wash and yard areas.

2.2 Waste Management Activities

The licence allows Greenstar to accept and process on-site for recovery and disposal 95,000 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 MRF building, as specified in Condition 5.1 of the Waste Licence. A list of the existing plant in use at the facility is given on Table 2.1.

2.2.1 Waste Types

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

- Household (15,000 tonnes),
- Commercial (37,500 tonnes),
- Industrial (5,000 tonnes),
- Construction & Demolition (37,500 tonnes).

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

Table 2.1 Existing Plant

No.	Plant	Model	Operational Capacity
1	Loading Shovel	Liebherr	70t/hr
1	Loading Shovel	Volvo	70t/hr
1	Fork Lift	Toyota	60 hr/wk
1	Grab	Liebherr 360	25t/hr
1	Weighbridge – 2 scales	-	56hr wk

3. EMISSION MONITORING

Greenstar implements a comprehensive environmental monitoring programme to assess the significance of emissions from site activities. The programme includes surface water, wastewater, noise and dust monitoring. The monitoring locations are shown on Figure 3.1.

The monitoring results are submitted to the Agency at quarterly intervals. An overview of the results of the monitoring is presented in this Section, with summary data in tables included in Appendix 1.

3.1 Surface Water Quality Monitoring

Surface water monitoring was conducted at one monitoring point at the location shown on Figure 3.1. Surface water runoff is confined to run-off from the roofed area of the transfer building and to run-off from the paved yard areas and is completely dependant on rainfall. All water from the vehicle wash area is diverted to the wastewater drainage system.

The sampling and analysis was carried out in accordance with recognised quality assurance and control procedures. The range of analysis was as specified in Schedule D of the Waste Licence and included Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), suspended solids (TSS), pH, electrical conductivity, mineral oils, total nitrogen and total ammonia. The results were compared to the trigger levels set in Condition 6.3.2 and Schedule C of the Licence. The summary tables are included in Appendix 1.

In the first, second and fourth quarters, the BOD levels (68 mg/l, 36 mg/l and 29 mg/l respectively) exceeded the trigger level set in Condition 6.3.2 of the Licence (25 mg/l). The TSS levels recorded during the second quarter monitoring event (48 mg/l) were also marginally above the trigger level (35 mg/l). The levels of the other parameters are consistent with previous surface water monitoring results and were below emission and trigger limits in the licence.

The elevated TSS is associated with the disturbance of sediment in the base of the sample chamber, when the sample was collected. This disturbance was unavoidable due to the low flow at the time of sampling. The source of the elevated BOD was investigated but the source could not be identified. There were no known incidents such as spills at the facility prior to the monitoring events. The Agency, the Eastern Regional Fisheries Board and South Dublin County Council were notified of the exceedances of the trigger levels in accordance with the licence conditions.

Surface water run-off from the facility discharges via a petrol/oil interceptor to the storm drain serving the industrial estate. It is considered unlikely that the elevated BOD and TSS resulted in significant impairment of, or significant interference with the environment beyond the facility boundary.

3.2 Wastewater Monitoring

Waste water sampling was carried out at one sampling location shown on Figure 3.1. The sampling and analysis was carried out in accordance with recognised quality assurance and control procedures. The range of analysis was as specified in Schedule D of the Waste Licence and included BOD, COD, suspended solids, pH, ammoniacal nitrogen, sulphate, fats, oils and greases and detergents. The samples were compared to the Emission Limit Values (ELVs) set in Schedule C of the Licence. The summary data tables are included in Appendix 1. The results were all significantly below the ELVs set in the Licence.

3.3 Noise Survey

Greenstar carried out the annual noise survey on the 23rd July 2008. Monitoring was carried out at the three noise monitoring locations, N-1, N-2 and N-3 specified in the licence and one off-site noise sensitive location NSL-1, as shown on Figures 3.1 and 3.2.

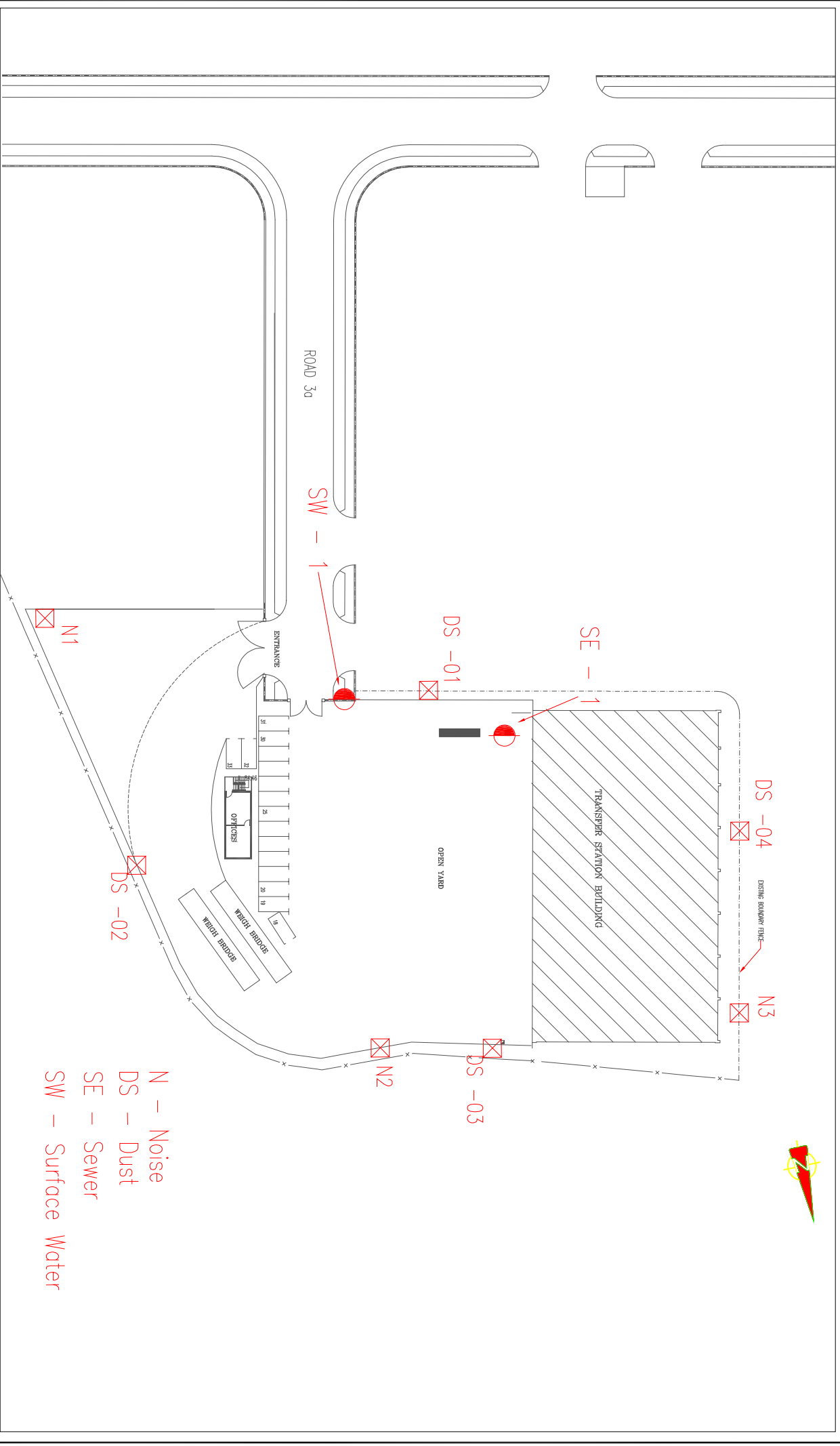
The survey was conducted when the site was fully operational and the results confirmed that the facility was in compliance with its licence requirements. A summary of the results is included in Appendix 1.

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, July and August 2008. The results of the monitoring are included in Appendix 1.

In August 2008 there were marginal exceedances at DS-02 (353 mg/m²/day) and DS-03 (356 mg/m²/day). All the other levels recorded were below the deposition limit set in the licence. The Agency were informed of the exceedances in a letter dated the 7th October 2008.

The dust levels are significantly contributed to by off-site sources. The facility is located within a busy industrial estate and is bound to the north, south, east and west by various industrial activities including an open plant storage yard, container storage yard and distribution warehouses. There are no sensitive receptors within 300m of the boundary.



- N – Noise
- DS – Dust
- SE – Sewer
- SW – Surface Water



 O' Callaghan Moran & Associates.
 Granary House, Rutland Street,
 Cork, Ireland.
 Tel: (021) 4321521 Fax: (021) 4321522
 email : info@ocallagh Moran.com

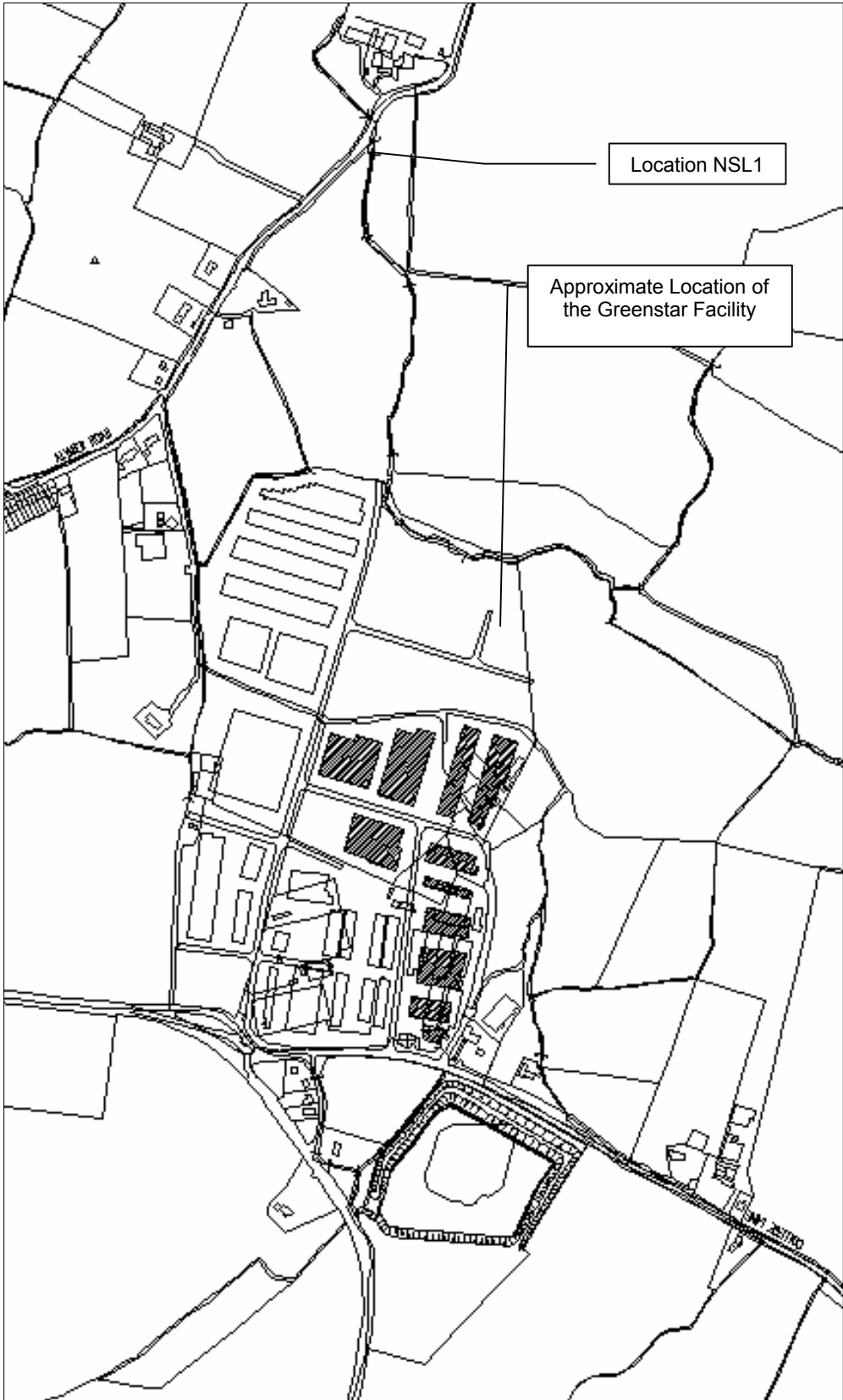
CLIENT
GREENSTAR GREENOGUE
 TITLE
 Monitoring Locations

DRAWING No.
3.1
 SCALE
 NTS
 A3
 REV.

NOTES
Grid References:
 N1: E3002160, N227977
 N2: E3002316, N228041
 N3: E3002318, N228122
 SW-1: E3002113, N228058
 SE-1: E3002231, N228101
 DS-01: E3002217, N228006
 DS-02: E3002237, N227986
 DS-03: E3002323, N228072
 DS-04: E3002269, N228137

This drawing is the property of O'Callaghan Moran & Associates and shall not be used, reproduced or disclosed to anyone without the prior written permission of O'Callaghan Moran & Associates and shall be returned upon request.

Figure 3.2 – Noise Sensitive Location



4. SITE DEVELOPMENT WORKS

4.1 Engineering Works

No site development works were carried out during the reporting period. Greenstar will inform the Agency about any proposed specified engineering works in accordance with Condition 3.2.1 of the Licence.

4.2 Summary of Resource & Energy Consumption

Table 4.1 presents an estimate of the resources used on-site during the reporting period from January to December 2008.

Table 4.1 Estimate of Resources Used On-Site

Resources	Quantities
Diesel	70,378 litres
Truck Wash	1,000 litres
Engine Oil	1,000 litres
Electricity	118,500 kWh

4.3 Bund Integrity Testing

Tank, drum, pipeline and bund testing is to be carried out every three years. The testing is scheduled to be carried out in 2009.

5. WASTE RECEIVED AND CONSIGNED FROM THE FACILITY

Table 5.1 shows the total quantities of waste received and consigned from the facility in 2008, Table 5.2 shows the quantities for 2007 and Table 5.3 shows the waste quantities for previous years. A breakdown of the waste types is provided in accordance with the European Waste Catalogue and Hazardous Waste list.

The total quantity of waste received at the facility was 68,661.96 tonnes. The total waste consigned was 66,758.34 tonnes. At the end of the reporting period there was an estimated 445 tonnes onsite awaiting processing. The remaining difference (approximately 1,903 tonnes or 2.7% of the total) relates to errors which occur in the operation of the weighbridge and/or the presence of rainwater in the open top skips brought on-site. The recycling rate for the facility is estimated at 71.5%.

All the wastes consigned from the site went to recovery and disposal facilities agreed with the Agency. The name and location of the facilities are given in Table 5.4.

Table 5.1 Waste Received & Consigned 2008

EWC	Description	Waste In	Waste Out	Destination
08 03 18	Toner	2.47		
08 03 99	Cartridges	0.12		
15 01 01	Cardboard Packaging	1,492.81	1,491.56	Bailey Waste
			134.14	Greenguard Recycling
			35.79	Greenstar Fassaroe
	Multi Produce Load		12.06	Bailey Waste
15 01 02	Plastic Drum Lid	1.79		
	Plastic Film	7.54	21.60	Greenway
	Plastic H/LDPE	0.97		
	Plastic Packaging	302.15	11.34	Greenstar UK
			12.86	Bailey Waste
			5.52	Greenstar Fassaroe
5.87			Thorndale Env. Recycling	
15 01 03	Pallets	249.39	153.89	Max Pallets Services
	Wooden Packaging	1,352.87	23.18	Misc Business
			3,892.76	Greenstar Fassaroe
15 01 04	Aluminium	1.21	1.86	Davis Recycling
	Aluminium Cans	0.91		
	Foil	0.65		
15 01 05	Blister Pack	3.56		
15 01 06	Mixed Packaging	4,119.15	190.76	Bailey Waste
			3,670.78	Greenstar Fassaroe
15 01 07	Glass Packaging	33.74		
16 02 14	IPC's Processors	3.03		
16 05 04	Gas Cylinders		0.96	Calor Gas
17 01 07	C&D Inert Mixed	321.24	12,143.50	Greenstar Fassaroe
17 05 04	C&D Inert Mixed	9,479.95	19.98	Greenstar Fassaroe
	Soil & Stones	65.94		
17 08 02	Plasterboard	53.50	13.94	Gypsum Recycling Ireland
19 05 03	Compost		26.32	Miltown Composting
			1,250.21	Waddock Composting
19 08 05	Liq Waste		12.82	Rilta Environmental
19 09 05	Resin	36.80		
19 12 07	Wood	2.71		
19 12 09	Fines C&D		23.96	Greenstar Fassaroe
19 12 12	C&I Dry Mixed	2.86	15,173.92	KTK Landfill
			45.06	Knockharley Landfill
			148.98	Greenstar Fassaroe
			13,679.15	Greenstar Millennium
	MSW Municipal Mixed		21.60	Knockharley Landfill
			6,277.65	Greenstar Fassaroe
			22.80	Greenstar Millennium
			19.76	Ballynagran Landfill
20 01 01	Emmac Paper	1.15		
	Cardboard & Paper	124.34	23.46	Bailey Waste
	Newsprint	1.55		
	Recy Confidential	2.50		
	Recy Paper	55.15		

EWC	Description	Waste In	Waste Out	Destination
20 01 08	Compost	1,806.87		
20 01 35*	Electronics & Electrics	1.85		
20 01 38	Wood	3,953.77	875.38	Greenstar Fassaroe
	Beds		618.58	Greenstar Millennium
20 01 39	Trays	2.36		
	Metallised CDs	35.26	17.98	Thorndale Environment
	Plastic	193.67		
20 01 40	Metal	668.45	860.70	Davis Recycling
20 02 01	Green Biodegradable Waste	2,366.08	373.27	Enrich Environmental
			1,676.21	Greenstar Fassaroe
			23.66	Greenstar Millennium
	Green Mixed	60.98		
20 03 01	MSW Municipal Mixed	14,554.38	3,744.52	Knockharley Landfill
20 03 07	C&I Dry Mixed	27,297.99		
	Total Received	68,661.96		
	Total Consigned		66,758.24	
	Total Recycled		47,753.48	
	Total Disposed		19,004.86	
	Recycling Rate		71.53%	

Table 5.2 Waste Received & Consigned in 2007

EWC	Description	Waste In	Waste Out	Destination
15 01 01	Cardboard & Paper	2.60		
	Cardboard Packaging	2,044.98	1,194.14	Greenstar Fassaroe
			357.50	Bailey Waste
			117.42	Greenguard Recycling Ltd
15 01 02	Polypropylene	7.87		
	Drum Pizza Base	1.61		
	Trays	0.70		
	Plastic Drum Lid	4.68		
	Plastic Drums	0.19		
	Plastic Film	6.94		
	Plastic H/LDPE	2.63		
	Plastic Packaging	100.53	22.78	Greenstar Fassaroe
			38.15	Greenstar UK
15 01 03	Pallets	67.44	25.92	Recycling 2000
			18.44	T&A Pallets
	Wooden Packaging	617.44	726.51	Greenstar Bray
			11.62	Greenstar Millennium
			5.02	T&A Pallets
15 01 04	Aluminium Cans	1.09		
	Steel (IBC Cages)	0.24		
15 01 05	Fibre Drum	32.27		
15 01 06	Dry Mixed Recyclables	16.28	13.91	Greenstar Fassaroe
	Mixed Packaging	1,705.18	28.90	Thorntons
			1,040.23	Greenstar Fassaroe
			115.58	Bailey Waste
15 01 07	Glass Packaging	4.31		
15 01 09	Supersacks	0.76		
16 02 14	IPC's Processors	7.73		
17 01 07	C&D Inert Mixed	11,132.10	9,313.18	Greenstar Fassaroe
			4,795.76	Greenstar Millennium
17 04 11	Cable	0.46		
17 05 04	C&D Inert Mixed	1,497.10	1,067.96	Greenstar Fassaroe
			548.26	Greenstar Millennium
	Soil & Stones	89.71		
18 01 04	Blister Pack	40.85		
19 05 03	Food Ingredients	182.15		
	Compost		622.24	Waddock composting
19 12 02	Metal		838.15	Davis Recycling
19 12 07	Wood		575.49	Greenstar Fassaroe
			2,662.28	Greenstar Millennium
			5.42	Recycling 2000
19 12 09	Fines C&I	0.18	20.98	Greenstar Millennium
	SUP Building Materials	63.54		

EWC	Description	Waste In	Waste Out	Destination
19 12 12	C&I Dry Mixed		421.83	AES Midland Waste Navan
			1,843.57	KTK Landfill
			573.34	Ballynagran Landfill
			5,080.61	Greenstar Fassaroe
			13,676.31	Greenstar Millennium
	22.32		Greenstar Limerick	
	MSW Municipal Mixed		313.88	AES Midland Waste Navan
			158.74	Ballynagran Landfill
			4,541.69	Greenstar Fassaroe
8,802.00		BRP Baler		
20 01 01	EMMAC Paper	7.54		
	Recy Confidential	5.87		
	Recy Paper	43.73		
	Newsprint	1.63		
20 01 02	Glass	37.79		
20 01 08	Compost	1,281.04		
20 01 38	Wood	2,920.67		
20 01 39	Scrapped CDs	2.54		
	Metallised CDs	0.62		
	Plastic	217.06		
20 01 40	Aluminium	9.66		
	Foil	3.54		
	Metal	449.11		
20 02 01	Green Biodegradable Waste	1,275.27	1,176.15	Enrich Environmental Kilcock
	Green Mixed	45.71		
20 03 01	MSW Municipal Mixed	12,548.56		
20 03 07	C&I Dry Mixed	26,998.95		
91 00 00	None	0.40		
	Total Received	63,481.24		
	Total Consigned		60,776.28	
	Total Recycled		58,200.63	
	Total Disposed		2,575.65	
	Recycling Rate		95.76%	

Table 5.3 Previous Waste Consignments

Description	2006	2005	2004
Total Received	51,767.97	1,540.479	461.266
Total Consigned	51,175.53	1,400.659	411.801
Total Recycled	36,183.96	1,010.146	368.041
Total Disposed	15,093.39	390.513	43.76
Recycling Rate	71%	72%	89%

Table 5.4 Off-Site Disposal / Recovery Agents

Final Recovery or Disposal Destination	Waste Licence or Permit	Waste Type Accepted
Baileys Waste Paper , Rosemount Business Pk, Blanchardstown Dublin 16	WPT(1)B	Paper & Cardboard
Ballynagran Landfill, Coolbeg and Kilcandra, Co. Wicklow	W0165-01	Mixed MSW
Calor Gas, Longmile Road, Dublin 12	N/A	Gas Cylinders
Davis Recycling, Pigeon House Road, D4	WP 98067	Metal, Plastic & Mixed Electronics
Enrich Environmental Kilcock	WMP2004/57	Green Waste
Greenguard Recycling Ltd., Unit 2B, Kylemore Industrial Estate, Killeen Road, Dublin 10.	CP D 95-1	Cardboard
Greenstar Recycling, Millennium Business Park, Ballycoolin, Dublin 11	W0183-01	C&I
Greenstar Recycling, Fassaroe, Bray, Co. Wicklow	W0053-03	C&I, wood, Packaging
Greenstar UK, Skegness, UK	EA/WML/7313 4	Plastic Packaging
Greenway Ireland Ltd., 11 Porthill Road, Mountnorris, Co. Armagh, BT60 2TY	ROC 621 (NI 00611)	Plastic Packaging
Gypsum Recycling Ireland, Rathcoffey, Donadea, Naas, Co. Kildare	WMP 238/2006	Plasterboard
Knockharley Landfill, Navan, Co. Meath	W0146-01	MSW & C&I
KTK Landfill, Kilcullen, Co. Kildare	W0081-01	C&I
Max Pallets, Unit 1 Colemanstown, Rathcoole, Co. Dublin	No permit required	Wood
Milltown Composting Systems Ltd., Milltownmore, Fethard, Co. Tipperary.	WP 019 02	MSW fines
Rilta Environmental Ltd, Block 402, Grant's Drive, Greenogue Business Park, Rathcoole, County Dublin	W0192-02	Waste Water
Thorndale Environmental Recycling Ltd., 77 Clooney Road, Campsie, Derry, BT47 3PA	WDL 14	Plastic
Waddock Composting, Killamaster, Carlow	WP11/O4	Compost

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

The routine monitoring programme identified four environmental incidents related to exceedances of the dust deposition limit and surface water trigger levels.

The dust deposition limit was exceeded during one monitoring event, however the source of the dust is considered to be predominantly off site sources. The Agency was notified of this exceedance in a letter dated the 7th October 2008.

In January, May and November 2008, the BOD trigger level for surface water was exceeded. The trigger level for TSS was also exceeded in May 2008. The Eastern Regional Fisheries Board, the Agency and South Dublin County Council were notified of the exceedance as required by Condition 11.3.c) of the Waste Licence (letters dated the 21st February, 23rd May and 2nd December 2008).

Greenstar are currently reviewing the surface water incidents for 2008 and a detailed site inspection will be undertaken and a report submitted to the Agency in April 2009. This report will include measures to prevent contamination of the discharge to surface water and an updated surface water drainage drawing.

6.2 Register of Complaints

Greenstar maintains a register of complaints received in accordance with Condition 10.4 of the waste licence. There were no complaints received during the reporting period.

7. ENVIRONMENTAL DEVELOPMENT

7.1 Environmental Management Programme Report

Greenstar has developed an Environmental Management System (EMS) for the facility and the facility has been certified to ISO 14001. As part of this EMS Greenstar has developed a list of environmental, management, operating and maintenance procedures, in 2008 a new procedure for the handling of gypsum waste was developed, a copy of which is included in Appendix 2. Details of the EMS including the proposed schedule of objectives and targets for 2009 are outlined below.

7.1.1 Site Management Structure

Management and Staffing structure: -

Name: Aidan Shanahan

Responsibility: Head of Leinster MRF Operations; overall responsibility for the running of the business including environmental compliance

Experience: 5 years working in the waste management industry and 16 years operational management experience; has completed the FAS Waste Management Course

Name: James Sowray

Responsibility: Operations Manager; overall responsibility for the day to day site operations of the site including environmental compliance

Experience: 7 years working in operations management; has completed the FAS Management Course

Name: Miriam Doran (Nominated Deputy)

Responsibility: Administration Manager

Experience: 2 years working in waste management; has completed the FAS Management Course

Name: Jonathon O'Keeffe (Nominated Deputy)

Responsibility: Dispatch Manager

Experience: 5 years working in waste management; has completed the FAS Management Course

7.1.2 Staff Training

No training was carried out during the year.

7.2 Environmental Management Programme Progress Report & Proposal

7.2.1 Schedule of Objectives 2008 –Progress Report

The objectives that were achieved during this reporting period are outlined in Table 7.1 and the progress summarised below.

Objective 1 – Awareness & Training Programme

Training has been identified and is carried out for all personnel as required.

Objective 2 – Review & Assess the Effectiveness of Nuisance Control Procedures

As part of internal and external ISO audits, procedures are assessed during the year.

Objective 3 – Prevent Water Pollution from run-off, fire-water, flooding, etc.

Interceptors are serviced at least three times yearly or when necessary. Monitoring of surface and groundwaters will continue at the site. In the event of a spill or fire water drain mats and spill kits will be used to prevent pollution entering the drains.

Objective 4 – Assess & Review Resource & Energy Consumption at the site

Analysis of energy consumption will be reviewed quarterly electronically by Facility Manager and compared and graphed over previous time periods. Recommendation for the reduction of energy usage at the site will be assessed through an Energy Audit which are ongoing. A portacabin was removed from site therefore reducing the energy usage at the facility.

Objective 5 – Improve recycling rate for the facility

Continue to improve the recycling rate.

Objective 6 – Maintain EMS and certification to ISO 14001

SGS External Audits carried out in January 2008 and June 2008 found no major or minor non conformities at the site. We will aim to continually achieve this standard going forward. Quarterly internal audits will continue to be carried out.

Objective 7 – Improve Waste Acceptance Procedures & Record Keeping on- site

Ensure all relevant persons are trained on WIMS. Radio communication between the Banks Man and the Weighbridge Operator. Record keeping will kept up to date on site.

Objective 8 – Environmental Monitoring

Continue environmental monitoring in compliance with the Licence.

Objective 9 –Improvements to Quarantine Area

Improvements to the quarantine area are ongoing for 2009.

7.2.2 Schedule of Objectives 2009 – Proposal

A schedule of targets and objectives for 2009 has been set by the management of the Greenogue facility. These objectives are outlined in Table 7.2.

Table 7.1 Schedule of Objective and Targets 2008

No	Objective	Target	Responsibility	Timescale
1	Awareness & Training Programme	Determine training frequency required for each type of training	Facility Manager	Jan 08
		Prepare training matrix for 2008	Facility Manager	Jan 08
		Complete and retrain all training records (GS013 GS014 GS015) as required	Facility Manager	Ongoing
2	Review & Assess the Effectiveness of Nuisance Control Procedures	Continually review and assess all nuisance control procedures to ensure minimal impact on surrounding area	Facility Manager	Ongoing
		Look into need for and possible type of bird control measures to be implemented on site	Facility Manager/ Environmental Department	Feb 08
		Ensure litter is removed at the end of each working day	Facility Manager/ Yard Supervisor	Ongoing
3	Prevent Water Pollution from Run-Off Fire Water Flooding	Ensure all drains and interceptors are maintained, and regularly serviced	Facility Manager/ Supervisor	Ongoing
		Use drain cover mats, to prevent release of liquid spills to sewer	Supervisor	Ongoing
		Ensure Vehicles parked onsite are properly maintained	Facility Manager	Ongoing
4	Assess & Review Resource & Energy Consumption at the site	Carry out an energy audit on the site	Facility Manager	March 2008 for Energy Audit Ongoing
		Review & Implement recommendations from the energy audit		
		Review progress made on implementing the energy audit recommendations		
		Summary energy/resource usage on a quarterly basis		
5	Recycling Rate	Improve recycling rate for the facility	Facility Manager	Ongoing
6	Maintain and Develop the Environmental Management System	Maintain Documentation for EMS and implement on site	Environmental Department	Ongoing
		Up date manual and procedures where required		
		Recommend change from biannual internal audits of the EMS, to quarterly internal audits		
		Draw up an EMS compliance schedule and assist site in complying with key deadlines		

No	Objective	Target	Responsibility	Timescale
7	Improve Waste Acceptance Procedures & Record Keeping on-site	Continue to ensure that any unacceptable waste is quarantined and hazardous waste is disposed of using only fully certified carriers and only to fully certified facilities	Facility Manager, Banks Man, Vehicle Drivers, Weighbridge Operator	
		Communicate with customers items are acceptable on site, inform them on the phone and using flyers	Customer Care Manager	
		Maintain details of hazardous materials used on-site	Facility Manager	
		Ensure all relevant personnel are trained on WIMS	Facility Manager	
		Ensure proper storage and maintenance of records at the site (as per SOP001 document control)	Facility Manager	
8	Environmental Monitoring	Draw up an EMS compliance schedule and assist the site in complying with key deadlines	Environmental Department	
		Ensure monitoring results comply with licence limits and investigate any accidents of emission limit values	Facility Manager	
9	Improvements to Quarantine Area	Continue to upgrade the Quarantine Area	Facility Manager	Dec 08

Table 7.2 Schedule of Objective and Targets 2009

No	Objective	Target	Responsibility	Timescale
1	Environmental Monitoring	Improve compliance with the surface water emission limits	Facility Manager	Q2 2009 & Ongoing
2	Recycling Rate	Increase awareness for the necessity of gypsum recycling	Facility Manager	Q2 2009 & Ongoing
3	Maintain and Develop the Environmental Management System	Maintain Documentation for EMS and implement on site	Environmental Department	Ongoing
		Up date manual and procedures where required		
4	Assess & Review Resource & Energy Consumption at the site	Continue to Review & Implement recommendations from the energy audit	Facility Manager	Ongoing
		Summary energy/resource usage on a quarterly basis		
5	Review & Assess the Effectiveness of Nuisance Control Procedures	Continually review and assess all nuisance control procedures	Facility Manager/ Environmental Department	Ongoing
		Ensure litter is removed at the end of each working day		

7.3 Communications Programme

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

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

Records available for public inspection on site include:-

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

Opening Times for Inspection of Records are from 9 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 Controls

Greenstar has contracted a vermin control company Rentokil to carry out nuisance control at the facility. Rentokil assess vermin activity on-site, along with an inspection of the bait traps that are located throughout the facility. Records are maintained onsite.

7.5 Waste Recovery Report

National and regional policy on waste management is based on the Department of the Environment and Local Government's policy statement of September 1998, "Changing Our Ways", in which the Government affirmed its commitment to the EU hierarchy of waste management. In order of preference this is: -

- Prevention,
- Minimisation,
- Reuse,
- Recycling,
- Energy Recovery,
- Disposal.

The policy statement was based on, and is supported by, EU legislation (Landfill Directive 99/339/EC) that requires the diversion of organic wastes, including green waste, from landfill to alternative waste treatment facilities.

The facility, which is designed to increase the recycling of biodegradable materials and reduce the volume of waste disposed to landfill, meets the needs identified in EU and national waste policy statements and contributed to the achievement of these goals as out of approximately 66,758.28 tonnes of waste accepted approximately 71.5% was sent for recovery.

7.6 Report Financial Provision

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

7.7 European Pollutant Release and Transfer Register

Under the European Pollutant Release and Transfer Register Regulation (EC) No. 166/2006 Greenstar are required to submit information annually to the Agency. A copy of the information submitted to the Agency via the web-based data reporting system is included in Appendix 3.

8. OTHER REPORTS

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

APPENDIX 1

Environmental Monitoring Summary Tables

SURFACE WATER MONITORING RESULTS

Parameter	Units	SW 1	SW 1	SW 1	SW-1
		Q1	Q2	Q3	Q4
pH	pH units	7.27	6.67	7.46	7.27
Temperature	°C	6.5	16.5	17.1	10.6
Conductivity	mS/cm	1.281	0.258	0.189	0.894
Total Ammonia	mg/l	4.1	1.9	0.5	1.5
BOD	mg/l	68	36	7	29
COD	mg/l	216	98	48	27
Total Suspended Solids	mg/l	29	48	26	<10
Total Nitrogen	mg/l	8	1.4	18	24
Mineral Oils	mg/l	0.123	2.98	<0.01	0.034

WASTE WATER MONITORING RESULTS

Parameter	Units	Jan '08	Mar-08	May-08	Jul-08	Sep-08	Nov-08
pH	pH units	*	7.1	6.12	7.1	7.02	6.81
Temperature	°C	*	9.2	14.3	14	15.5	11.1
Sulphate	mg/l	*	18	86	<5	11	26
BOD	mg/l	*	41	30	40	477	29
COD	mg/l	*	86	189	100	221	87
Total Suspended Solids	mg/l	*	46	336	76	40	67
Oils, Fats & Greases	mg/l	*	<4	<4	9	<1	<1
Ammoniacal Nitrogen	mg/l	*	0.6	1.8	2.1	7.1	1.2
Detergents (as MBAS)	mg/l	*	**	1.7	<0.3	1.5	<0.2

* No flow at monitoring location

DUST DEPOSITION RESULTS


	June '08	July '08	August '08
DS-01	142	204	151
DS-02	177	*	353
DS-03	282	*	356
DS-04	209	71	244

NOISE SUMMARY TABLES

Station	Time	LAeq 30 min dB	LA10 30 min dB	LA90 30 min dB	Noise Audible
N1	0942-1012	56	57	51	Site emissions continuously audible, although reduced due to screening provided by portacabin and bins stored locally. Sporadic impulsive bangs audible from skip manoeuvres. Truck movements audible through gate and on nearby industrial estate roadway. No offsite sources audible apart from occasional emissions from adjacent crane depot.
N2	1015-1045	68	66	56	Emissions from within waste processing building dominant continuously, chiefly from grab engine. Trucks audible manoeuvring around yard and weighbridge area. Some screening provided by skips stored locally. Impulsive emissions audible from grab manoeuvring skips 1028-1034. No offsite sources audible apart from sporadic low altitude aircraft movements.
N3	1050-1120	57	59	49	Processing operations within building dominant continuously. No other noise sources audible.
NSL1	1137-1207	62	62	37	Greenstar emissions not specifically audible, although commercial/industrial/construction noise emissions slightly audible in distance. Traffic audible on local road, and in near distance and far distance. Low and medium altitude aircraft noise emissions continuously audible throughout interval. Emissions from 7 small aircraft which landed at adjacent aerodrome during interval dominant due to flight path directly overhead. Birdsong.

APPENDIX 2

New Procedures

DOCUMENT TYPE	PROCEDURE	SOP 080	
TITLE	Gypsum Based Material		
Controlled Document			

1. SCOPE/OBJECTIVE

This procedure will apply to all Greenstar facilities.

The purpose of this procedure is to ensure the safe and efficient handling, rejection and/or quarantining of gypsum based material.

2. RESPONSIBILITY

The Facility Manager (FM) will implement this procedure.

The FM, Environment Manager (EM), Site Operatives (SO) and Customer Care (CC) personnel will follow this procedure.

3. DEFINITION

“Non -hazardous gypsum-based materials” typically include plaster board waste from construction and demolition sites which can often be present in general C&D waste skips. In terms of the European Waste Catalogue, separately collected gypsum based construction material is coded as 17 08 02 and source separation of this material is encouraged. Typically, however, gypsum wastes arising from works of demolition in particular may arise in general C&D waste loads. In this instance the appropriate code is 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03).

COUNCIL DECISION of 19 December 2002 establishing criteria and procedures for the acceptance of waste at landfills pursuant to Article 16 of Annex II to Directive 1999/31/EC states:

“2.2.3. Gypsum Waste;

Non hazardous gypsum-based materials should be disposed of only in landfills for non-hazardous waste in cells where no biodegradable waste is accepted”.

Mixing gypsum wastes with biodegradable wastes can lead to the evolution of hydrogen sulphide and consequently where gypsum based material is accepted at a non landfill site, this material must be segregated from the general (C&D) waste accepted.


Site Safety Statement

4. PROCEDURE

4.1. Generalities

Gypsum based material may arrive on site mixed with general Construction and Demolition (C&D) waste. Where possible and practicable, all gypsum-based products must be segregated from other types of C&D waste and stored separately in a suitable, clearly labelled, covered container pending removal off-site to a licensed or permitted facility.

DOCUMENT NUMBER	SO P 018	ISSUE DATE	08/05/08	REVISION NUMBER	6	Page 1 of 2	ISSUED BY	S B	AUTHORISED BY	M D
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DOCUMENT TYPE	PROCEDURE	SOP 080	 <i>greenstar</i> <small>setting the standard</small>
TITLE	Gypsum Based Material		
Controlled Document			

Where large proportions of gypsum waste are found to be contaminating skips received from a particular customer on an on-going basis, the FM must contact the Customer Account Manager to explain that further loads of this nature will not be received at the facility, giving reasons why and insisting that the customer site in question avail of separate covered storage and collection of gypsum-based waste for removal to licensed facilities.

The FM will arrange for the transport and disposal off-site of segregated gypsum based material by an approved third party specialist contractor (Ref. SOP 016, and GS028).

This material will only be sent to a fully approved (licensed or permitted) facility.

DOCUMENT NUMBER	SOP 018	ISSUE DATE	08/05/08	REVISION NUMBER	6	Page 2 of 2	ISSUED BY	S B	AUTHORISED BY	M D
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APPENDIX 3

European Pollutant Release and Transfer Register

AER Returns Worksheet

Version 1.1.03

REFERENCE YEAR	2008
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1. FACILITY IDENTIFICATION

Parent Company Name	Greenstar Materials Recovery Ltd
Facility Name	Greenstar Materials Recovery Ltd
PRTR Identification Number	W0188
Licence Number	W0188-01

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).
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
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.
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.

Address 1	14B Phase 3
Address 2	Road 3A
Address 3	Greenogue Industrial Estate
Address 4	Rathcoole, Co Dublin
Country	Ireland
Coordinates of Location	0.000
River Basin District	IEEA
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	Suzanne Byrne
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	01-2947900
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	0
User Feedback/Comments	
Web Address	

2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5c	Installations for the disposal of non-hazardous waste

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 ?	

4.1 RELEASES TO AIR

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR								
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 PRTR POLLUTANTS

RELEASES TO AIR								
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 C : REMAINING POLLUTANT EMISSIONS (As required in your Licence)

RELEASES TO AIR								
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
						0.0	0.0	0.0

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

Additional Data Requested from Landfill operators

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

Landfill:	Greenstar Materials Recovery Ltd				
Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Code	Designation or Description	Facility Total Capacity m3 per hour
	Total estimated methane generation (as per site model)	0.0			N/A
	Methane flared	0.0			0.0 (Total Flaring Capacity)
	Methane utilised in engine/s	0.0			0.0 (Total Utilising Capacity)
	Net methane emission (as reported in Section A above)	0.0			N/A

4.2 RELEASES TO WATERS

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 only concerns Releases from your facility

RELEASES TO WATERS								
POLLUTANT		Method Used			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	SW-1 Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
12	Total nitrogen	E	EN ISO 17025	Flow was estimated based on rainfall amount over the year and the area of the facility. The analysis was ISO accredited	58.20644	58.20644	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								
POLLUTANT		Method Used			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	SW-1 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								
POLLUTANT		Method Used			QUANTITY			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	SW-1 Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
238	Ammonia (as N)	E	EN ISO 17025	Flow was estimated based on rainfall amount over the year and the area of the facility. The analysis was ISO accredited	7.450138	7.450138	0.0	0.0
303	BOD	E	EN ISO 17025	Flow was estimated based on rainfall amount over the year and the area of the facility. The analysis was ISO accredited	158.5389	158.5389	0.0	0.0
306	COD	E	EN ISO 17025	Flow was estimated based on rainfall amount over the year and the area of the facility. The analysis was ISO accredited	440.5118	440.5118	0.0	0.0
240	Suspended Solids	E	EN ISO 17025	Flow was estimated based on rainfall amount over the year and the area of the facility. The analysis was ISO accredited	155.5192	155.5192	0.0	0.0
324	Mineral oils	E	EN ISO 17025	Flow was estimated based on rainfall amount over the year and the area of the facility. The analysis was ISO accredited	4.73654	4.73654	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

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER									
POLLUTANT		METHOD			QUANTITY				
No. Annex II	Name	M/C/E	Method Used		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	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								
POLLUTANT		METHOD			QUANTITY			
Pollutant No.	Name	M/C/E	Method Used		SE-1 Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
			Method Code	Designation or Description				
343	Sulphate	E	EN ISO 17025	Based on an estimate of water used in the wheel wash and run off from the MRF building	88.125	88.125	0.0	0.0
303	BOD	E	EN ISO 17025	Based on an estimate of water used in the wheel wash and run off from the MRF building	308.5	308.5	0.0	0.0
306	COD	E	EN ISO 17025	Based on an estimate of water used in the wheel wash and run off from the MRF building	341.5	341.5	0.0	0.0
240	Suspended Solids	E	EN ISO 17025	Based on an estimate of water used in the wheel wash and run off from the MRF building	282.5	282.5	0.0	0.0
314	Fats, Oils and Greases	E	EN ISO 17025	Based on an estimate of water used in the wheel wash and run off from the MRF building	22.5	22.5	0.0	0.0
238	Ammonia (as N)	E	EN ISO 17025	Based on an estimate of water used in the wheel wash and run off from the MRF building	6.4	6.4	0.0	0.0
308	Detergents (as MBAS)	E	EN ISO 17025	Based on an estimate of water used in the wheel wash and run off from the MRF building	4.0	4.0	0.0	0.0

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

4.4 RELEASES TO LAND

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND							
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
					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)

RELEASES TO LAND							
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
					0.0	0.0	0.0

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR#: W0188 | Facility Name : Greenstar Materials Recovery Ltd | Filename : W0188_2008.xls | Return Year : 2008 |

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Transfer Destination	European Waste Code	Hazardous	Quantity T/Year	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Name and Licence / Permit No. of Recoverer / Disposer / Broker	Address of Recoverer / Disposer / Broker	Name and Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)	Licence / Permit No. of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	15 01 01	No	1491.56	Cardboard Packaging	R3	M	Weighed	Offsite in Ireland	Baileys Waste Paper WTP(1)B	Rosemount Business Park, Blanchardstown, Dublin 16 Unit 2B, Kylemore Industrial Estate, Killeen Road, Dublin 10		
Within the Country	15 01 01	No	134.14	Cardboard Packaging	R3	M	Weighed	Offsite in Ireland	Greenguard Recycling CP d 95-1			
Within the Country	15 01 01	No	35.79	Cardboard Packaging	R3	M	Weighed	Offsite in Ireland	Greenstar Fassaroe W0053-03	Fasaroe, Bray, Co. Wicklow		
Within the Country	15 01 01	No	12.06	Multi Produce Load	R3	M	Weighed	Offsite in Ireland	Baileys Waste Paper WTP(1)B	Rosemount Business Park, Blanchardstown, Dublin 16 11 Porthill Road, Mountnorris, Co. Armagh, BT60 2TY		
To Other Countries	15 01 02	No	21.6	Plastic Film	R3	M	Weighed	Abroad	Greenway Ireland Ltd. ROC 621 (NI 00611)			
To Other Countries	15 01 02	No	11.34	Plastic Packaging	R3	M	Weighed	Offsite in Ireland	Greenstar UK EA/WML/73134	Skegness, UK		
Within the Country	15 01 02	No	12.86	Plastic Packaging	R3	M	Weighed	Offsite in Ireland	Baileys Waste Paper WTP(1)B	Fasaroe, Bray, Co. Wicklow		
Within the Country	15 01 02	No	5.52	Plastic Packaging	R3	M	Weighed	Offsite in Ireland	Greenstar Fassaroe W0053-03	Fasaroe, Bray, Co. Wicklow		
To Other Countries	15 01 02	No	5.87	Plastic Packaging	R3	M	Weighed	Offsite in Ireland	Thorndale Environmental Recycling WDL 14	77 Clooney Road, Campsie, Derry, BT47 3PA		
Within the Country	15 01 03	No	153.89	Pallets	R3	M	Weighed	Offsite in Ireland	Max Pallets Services	Rathcoole, Co. Dublin		
Within the Country	15 01 03	No	23.18	Wooden Packaging	R3	M	Weighed	Offsite in Ireland	Miscellaneous Business	Various		
Within the Country	15 01 03	No	3892.76	Wooden Packaging	R3	M	Weighed	Offsite in Ireland	Greenstar Fassaroe W0053-03	Fasaroe, Bray, Co. Wicklow		
Within the Country	15 01 04	No	1.86	Aluminium	R4	M	Weighed	Offsite in Ireland	Davis Recycling Ltd WP 98067	Pigeon House Road, Dublin 14		
Within the Country	15 01 06	No	190.76	Mixed Packaging	R5	M	Weighed	Offsite in Ireland	Baileys Waste Paper WTP(1)B	Rosemount Business Park, Blanchardstown, Dublin 16		
Within the Country	15 01 06	No	3670.78	Mixed Packaging	R5	M	Weighed	Offsite in Ireland	Greenstar Fassaroe W0053-03	Rosemount Business Park, Blanchardstown, Dublin 16		
Within the Country	16 05 04	Yes	0.96	Gas Cylinders	R4	M	Weighed	Offsite in Ireland	Calor Gas	Longmile Road, Dublin 12	Calor Gas, Longmile Road, Dublin 12	N/A
Within the Country	17 01 07	No	12143.5	C&D Inert Mixed	R5	M	Weighed	Offsite in Ireland	Greenstar Fassaroe W0053-03	Fasaroe, Bray, Co. Wicklow		
Within the Country	17 05 04	No	19.98	C&D Inert Mixed	R5	M	Weighed	Offsite in Ireland	Greenstar Fassaroe W0053-03	Fasaroe, Bray, Co. Wicklow		
Within the Country	17 08 02	No	13.94	Plasterboard	R5	M	Weighed	Offsite in Ireland	Gypsum Recycling Ireland WMP 238/2006	Rathcoffey, Donadea, Naas, Co. Kildare		
Within the Country	19 05 03	No	26.32	Compost	R3	M	Weighed	Offsite in Ireland	Miltown Composting WP 019 02	Miltownmore, Fethard, Co. Tipperary		
Within the Country	19 05 03	No	1250.21	Compost	R3	M	Weighed	Offsite in Ireland	Waddock Composting WP11/O4	Killamaster, Carlow		
Within the Country	19 08 05	No	12.82	Liquid Waste	D8	M	Weighed	Offsite in Ireland	Rilita Environmental W0192-02	Block 402, Grant's Drive, Greenogue Business Park, Rathcoole, County Dublin		
Within the Country	19 12 09	No	23.96	Fines C&D	R5	M	Weighed	Offsite in Ireland	Waddock Composting WP11/O4	Fasaroe, Bray, Co. Wicklow		
Within the Country	19 12 12	No	15173.92	C&I Dry Mixed	D5	M	Weighed	Offsite in Ireland	KTK Landfill W0081-01	Kilcullen Co. Kildare		
Within the Country	19 12 12	No	45.06	C&I Dry Mixed	D5	M	Weighed	Offsite in Ireland	Knockharley Landfill W0146-01.	Navan, Co. Meath		
Within the Country	19 12 12	No	148.98	C&I Dry Mixed	R5	M	Weighed	Offsite in Ireland	Greenstar Fassaroe W0053-03	Fasaroe, Bray, Co. Wicklow		
Within the Country	19 12 12	No	13679.15	C&I Dry Mixed	R5	M	Weighed	Offsite in Ireland	Greenstar Millennium W0183-01	Millennium Business Park, Ballycoolin, Dublin 11		
Within the Country	19 12 12	No	21.6	MSW Municipal Mixed	D5	M	Weighed	Offsite in Ireland	Knockharley Landfill W0146-01.	Navan, Co. Meath		
Within the Country	19 12 12	No	6277.65	MSW Municipal Mixed	R5	M	Weighed	Offsite in Ireland	Greenstar Fassaroe W0053-03	Fasaroe, Bray, Co. Wicklow		

Transfer Destination	European Waste Code	Hazardous	Quantity T/Year	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Name and Licence / Permit No. of Recoverer / Disposer / Broker	Address of Recoverer / Disposer / Broker	Name and Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)	Licence / Permit No. of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	19 12 12	No	22.8	MSW Municipal Mixed	R5	M	Weighed	Offsite in Ireland	Greenstar Millennium W0183-01	Millenium Business Park, Ballycoolin, Dublin 11		
Within the Country	19 12 12	No	19.76	MSW Municipal Mixed	D5	M	Weighed	Offsite in Ireland	Ballynagran Landfill, W0165-01.	Coolbeg and Kilcandra, Co. Wicklow		
Within the Country	20 01 01	No	23.46	Cardboard & Paper	R3	M	Weighed	Offsite in Ireland	Baileys Waste Paper WTP(1)B	Rosemount Business Park, Blanchardstown, Dublin 16		
Within the Country	20 01 38	No	875.38	Wood	R3	M	Weighed	Offsite in Ireland	Greenstar Fassaroe W0053-03	Fasaroe, Bray, Co. Wicklow		
Within the Country	20 01 38	No	618.58	Wood	R3	M	Weighed	Offsite in Ireland	Greenstar Millennium W0183-01	Millenium Business Park, Ballycoolin, Dublin 11		
To Other Countries	20 01 39	No	17.98	Metallised CDs	R3	M	Weighed	Offsite in Ireland	Thorndale Environmental Recycling WDL 14	77 Clooney Road, Campsie, Derry, BT47 3PA		
Within the Country	20 01 40	No	860.7	Metal	R4	M	Weighed	Offsite in Ireland	Davis Recycling Ltd WP 98067	Pigeon House Road, Dublin 14		
Within the Country	20 02 01	No	373.27	Green Biodegradable Waste	R3	M	Weighed	Offsite in Ireland	Enrich Environment Kilcock WMP2004/57	Kilcock, Co. Meath		
Within the Country	20 02 01	No	1676.21	Green Biodegradable Waste	R3	M	Weighed	Offsite in Ireland	Greenstar Fassaroe W0053-03	Fasaroe, Bray, Co. Wicklow		
Within the Country	20 02 01	No	23.66	Green Biodegradable Waste	R3	M	Weighed	Offsite in Ireland	Greenstar Millennium W0183-01	Millenium Business Park, Ballycoolin, Dublin 11		
Within the Country	20 03 07	No	3744.52	MSW Municipal Mixed	D5	M	Weighed	Offsite in Ireland	Knockharley Landfill W0146-01.	Navan, Co. Meath		

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