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ANNUAL ENVIRONMENTAL REPORT

FOR GREENSTAR LTD

COOKSTOWN INDUSTRIAL ESTATE

TALLAGHT, DUBLIN 24

LICENCE NO. W0079-01

JANUARY 2010 – DECEMBER 2010

Prepared For: -

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

Prepared By: -

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31st March 2011

Project	Annual Environmental Report 2010			
Client	Greenstar Ltd. W0079-01			
Report No	Date	Status	Prepared By	Reviewed By
0480905	22/03/2011	Draft	Martina Gleeson PhD	Michael Watson MA.
0480905	31/03/2011	Final	Martina Gleeson PhD	Michael Watson MA.

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1. INTRODUCTION

This is the Annual Environmental Report (AER) for the Greenstar Ltd. (Greenstar), waste transfer and recovery facility at Unit 41, Cookstown Industrial Estate, Tallaght, Dublin 24. The Waste Licence (W0079-01) is held by Greenstar, but the facility has been operated by Midland Scrap Metal Limited (MSM) since December 2008.

The AER covers the period from the 1st January 2010 to 31st December 2010 and the content of the AER is based on Schedule C of the Waste Licence. The report format follows guidelines set in the "Guidance Note for Annual Environmental Report" issued by the Agency[1].

[1] EPA (Environmental Protection Agency) 1999 Waste Licensing – Draft Guidance on Environmental Management Systems and Reporting to the Agency

2. SITE DESCRIPTION

2.1 Waste Management Activities

The Licence authorises the acceptance of up to 145,000 tonnes per annum of materials comprising commercial and industrial waste (30%) and construction and demolition waste (70%). The main activity is the recovery and processing of ferrous and non ferrous metals sourced from construction and demolition sites, specialist industries that handle metal and existing waste recovery facilities.

Ferrous Metals

All incoming waste is weighed at the weighbridge and then stockpiled prior to processing. Prior to tipping, loads are subject to waste acceptance and inspection procedures. All contaminants are removed and stored in a dedicated quarantine storage area prior to removal to a suitable licensed facility. The metal is graded according to size before processing. The main process involves hydraulic shearing to reduce the size. The sheared material is stored on-site pending consignment to a processor.

Non-ferrous Metals

All incoming waste is weighed at the weighbridge and then stockpiled prior to processing. Prior to tipping, loads are subject to waste acceptance and inspection procedures. The majority of incoming material is already pre-sorted and these are baled. The mixed metals are sorted on site, with the oversized materials cut, and then baled and stored in secure containers, prior to transfer.

Plant & Equipment

The plant and equipment used at the facility are set out in Table 2.1.

Table 2.1: Plant & Equipment

Plant Item	Quantity
Mobile Shears Baler	1
Non Ferrous Baler	1
Atlas 1804 – Scrap Handling Machine	1
Solmec Scrap Handling machine	1
Hand Held Cutters	4
Fork Lift	2
Cable Stripper	1
JCB teleporter with bucket attachment	1
Skid steer loader with bucket attachment	1
Container Tilter	1

3. EMISSION MONITORING

Greenstar implements a comprehensive environmental monitoring programme to assess the significance of emissions from site activities. The programme includes wastewater, noise and dust monitoring. The monitoring locations are shown on Figure 3.1. The results are submitted to the Agency at quarterly intervals. An overview of the monitoring conducted in the reporting period is presented in this Section.

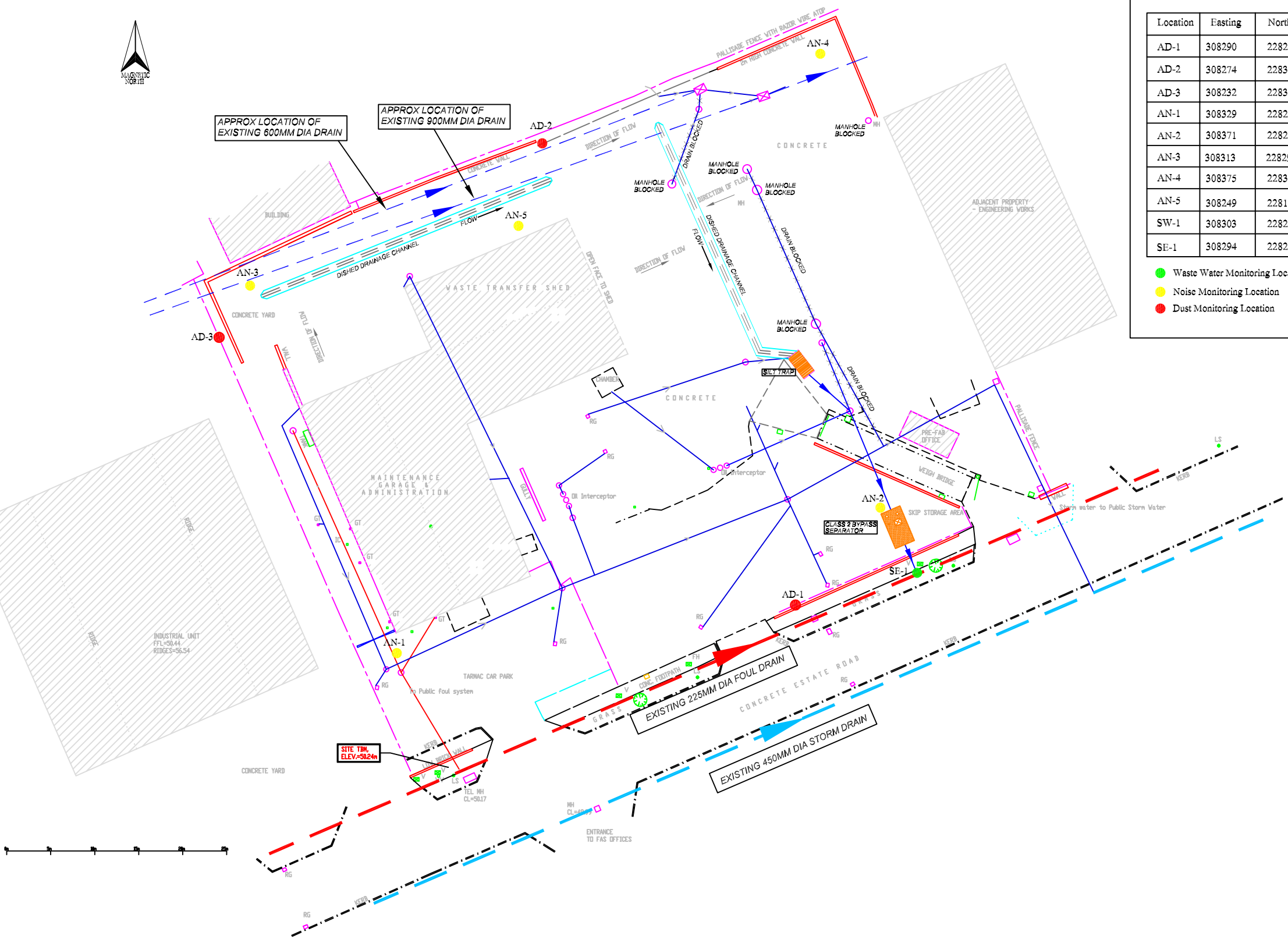
3.1 Wastewater

Wastewater from the facility discharges to the municipal foul sewer at one location – SE-1. The surface water drainage system was significantly upgraded in April 2009 to ensure that all run-off from a former vehicle wash area and the main working yard area is now directed to a silt trap. The contents of the silt trap are pumped to the municipal foul sewer via a Class 2 By-Pass separator before discharging to the municipal foul sewer.

The range of quarterly analysis was as specified in Schedule C of the Waste Licence and includes pH, ammoniacal nitrogen, Biological Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Total Suspended Solids (TSS), Oils, Fats & Greases (OFG), surfactants, sulphate and mineral oil. The results are included on Table 3.1. The wastewater emissions were 100% compliant with the Emission Limit Values (ELVs) set in the Licence.

Table 3.1 Wastewater Monitoring Results 2010

Parameter	Units	Q1	Q2	Q3	Q4	ELV
pH	pH Units	8.08	8.22	7.95	9.44	6 to 10
Temperature	°C	11	10.1	14.8	14.5	42
Ammoniacal Nitrogen	N mg/l	9.35	48.8	37.87	15.2	70
BOD	mg/l	322	50	22	134	2,000
COD	mg/l	818	352	69	384	4,000
Total Suspended Solids	mg/l	82	146	367	84	700
Oils, Fats & Greases	mg/l	5.53	2.44	<0.01	25.2	100
Surfactants	mg/l	3.6	0.8	<0.2	0.83	100
Sulphate	mg/l	302	48.1	26.62	176	1000
Mineral Oil	mg/l	<0.01	<0.01	<0.01	7.79	N/A



NOTES

Location	Easting	Northing
AD-1	308290	228276
AD-2	308274	228330
AD-3	308232	228312
AN-1	308329	228235
AN-2	308371	228265
AN-3	308313	228291
AN-4	308375	228317
AN-5	308249	228183
SW-1	308303	228288
SE-1	308294	228288

- Waste Water Monitoring Location
- Noise Monitoring Location
- Dust Monitoring Location

REV	DATE	DESCRIPTION	DRN	CHKD	APP

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Granary House, Rutland Street,
Cork, Ireland.
Tel. (021) 4321521 Fax. (021) 4321522
email : info@ocallaghanmoran.com

CLIENT

Greenstar Ltd.

TITLE

Monitoring Locations

SCALE	FIGURE No.	REV.
NTS A3	3.1	

3.2 Dust Monitoring

Dust monitoring is carried out monthly at three monitoring locations on the site boundaries. D-1 is on the southern boundary, D-2 is on the northern boundary and D-3 is on the western boundary. The results are included on Table 3.2. The dust deposition limit set in the Licence (350 mg/m^2/day) was exceeded on one occasion at monitoring location D-1 and on one occasion at monitoring location D-2. The incidents were reported to the Agency in accordance with Condition 3.3 of the licence.

Dust control measures were revised in 2010 with the installation of a high pressure, pump and hose system. Measures now include the dampening down of all paved areas and suppression of dust associated with the metal stockpile. This is carried out a number of times per day depending on conditions and use of the system is recorded. A road sweeper is also deployed on occasion.

An amended nuisance control procedure was developed and submitted to the Agency. This places a greater emphasis on ensuring that on-site dust generation does not constitute a nuisance to neighbouring sites.

There are significant off-site sources of dust in the vicinity of the site as demonstrated by monitoring carried out during a previous period of site closure.

Results measured at the three monitoring points during 2010 were much improved due to the measures outlined above.

Table 3.2 Dust Monitoring Results 2010

	Units	Jan '10	Feb '10	Mar '10	Apr '10	May '10	Jun '10	Deposition Limit Value
D1	mg/m^2/day	389	144.2	167.4	204.5	161.9	118.9	350
D2	mg/m^2/day	225.1	83.7	492.2	271.9	289.9	198.2	350
D3	mg/m^2/day	96.4	75.1	114.2	223.6	69.3	124.7	350

	Units	Jul '10	Aug '10	Sept '10	Oct '10	Nov '10	Dec '10	Deposition Limit Value
D1	mg/m^2/day	90.7	128.6	19.46	112	77.4	49.7	350
D2	mg/m^2/day	186.6	295.3	106.8	170.2	100.7	253.8	350
D3	mg/m^2/day	152.7	121.1	61.54	77.1	75.7	346.2	350

3.3 Noise Survey

Noise monitoring surveys were carried out in May 2010 and again in November 2010. The nearest sensitive receptor is Tallaght Hospital, which is west/southwest of the facility. Monitoring station (NSL1) is located at the northeast gate to the hospital complex, 200 m from the facility. Results of noise monitoring during 2010 are summarised in Tables 3.3 and 3.4. Both noise monitoring events found that emissions from facility did not adversely impact on the nearest NSL.

In May 2010, the $L_{Aeq\ 30\ min}$ level recorded at NSL1 (Tallaght Hospital) was 56 dB. In November 2010, the $L_{Aeq\ 30\ min}$ level recorded at NSL1 was 54 dB. The noise environment at this station was influenced by a multitude of sources, including local and distant traffic and emissions from surrounding commercial premises and was not impacted by the Greenstar facility.

Table 3.3 Noise Monitoring Results May 2010

Station	Time	LAeq 30 min dB	LAF10 30 min dB	LAF90 30 min dB	Specific level* dB	Noise audible
N1	0828-0858	59	62	56	59	Facility emissions continuous audible and dominant, chiefly grab and baler-shears at NW corner, grab manipulating metal in main yard, and container loading. No offsite emissions audible other than passing sporadic traffic on industrial estate roadway.
N2	0901-0931	68	69	62	68	Facility emissions continuously dominant and intrusive, particularly container loading due to container location within 10 m. Grab in main yard also audible. Sporadic passing traffic on industrial estate roadway.
N3	1347-1417	91	97	57	85	1 m from corner; specific level corrected by -6 dB. Local grab and baler-shears shut off. Grab manipulating metal and baler-shears at NE corner continuously audible. Activities in main yard including container loading also audible. Cutting/dismantling operations locally in building audible. No offsite noise audible.
N4	1431-1501	84	90	62	78	1 m from corner; specific level corrected by -6 dB. Local baler-shears engine dominant. No other emissions audible.
N5	1422-1452	75	78	65	75	Grab manipulating metal in yard dominant. Also emissions from container loading, forklift truck, oil refuelling lorry and vehicles accessing site. No offsite noise audible.
NSL1	1045-1115	56	58	52	<52	Facility emissions from grab manipulating metal continuously audible at low level, not significant. Reversing alarms onsite also audible. No local commercial noise other than forklift truck in yard outside unit at 80 m, with some vehicle movements and audible angle grinder. Frequent traffic movements through hospital gate and pedestrian voices dominant. Distant traffic noise audible in background. Aircraft and distant sirens.

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

Table 3.4 Noise Monitoring Results November 2010

Station	Time	LAeq 30 min dB	LAF10 30 min dB	LAF90 30 min dB	Specific level* dB	Noise audible
N1	0801-0831	55	57	49	<55	Initially no site emissions audible, apart from occasional vehicle arrivals in site carpark. Continuous emissions audible from local and distant commercial and traffic noise, also gulls nearby. From 0810 emissions audible from mobile grab manipulating metal, clearly audible and occasionally dominant. No offsite noise audible
N2	1012-1042	61	65	53	61	Shears machine at NE corner and adjacent grab manipulating metal clearly audible continuously. No other site emissions audible until 1020 due to morning break. From 1020, site activity gradually returned to normal, with emissions arising from vehicle movements through entrance and mobile plant in yard. Intermittent traffic on industrial estate access road dominant when present.
N3	0835-0905	92	98	59	86	**Specific level includes -6 dB correction due to corner position.** Idling grab at NW corner until local shears machine start up at 0857. Shears continuously dominant thereafter until 0904. Outside of shears operation, emissions audible from shears at NE corner. No offsite noise audible.
N4	0939-1009	90	92	84	84	**Specific level includes -6 dB correction due to corner position.** Adjacent shears machine entirely dominant throughout interval. No other emissions audible apart from occasional clangs from manipulated metal.
N5	0907-0937	74	77	65	71	**Specific level includes -3 dB correction due to wall proximity.** Emissions from several onsite sources dominant: shears machine at NE corner, metal manipulation in main yard, forklift truck and loader operations, visiting vehicle movements in yard. No offsite noise audible.
NSL1	1052-1122	54	56	48	<48	Frequent, almost continuous, traffic on local roadway and through hospital entrance dominant. Emissions also audible from pedestrian voices, commercial noise in area, distant traffic and birdsong. Greenstar emissions not specifically discernible in general commercial noise across area, although occasional slightly audible metal noise most likely originating from Greenstar facility.

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

4. SITE DEVELOPMENT WORKS

4.1 Engineering Works

No engineering works were carried out in 2010.

4.2 Summary of Resource & Energy Consumption

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

Table 4.1: Estimate of Resources Used On-Site

Resources	Quantities
Diesel & Oil	180,000 litres
Electricity	11,000 kWh
Kerosene & Propane	42,000 litres

4.3 Bund Integrity Test

New bunding and an upgraded drainage system were provided in 2009 and are fit for purpose. The oil interceptors and settlement tank are regularly maintained. Waste water sludge is removed and sent for off-site treatment at an appropriate treatment facility.

5. WASTE RECEIVED AND CONSIGNED FROM THE FACILITY

Table 5.1 shows the total quantities of waste received and consigned from the facility in 2010 with data for 2009 and previous years presented in Tables 5.2 and 5.3. 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 26,304.37 tonnes. The total waste consigned was 25,946.0 tonnes. The difference is due to the amount of materials retained on site on the 31st December 2010. The recycling rate for the facility is estimated at over 99%.

Table 5.1: Waste Received & Consigned 2010

EWC	Description	Waste In	Waste Out
12 01 01	Swarf	1,429	584
15 01 04	Packaging (Fe)	290	
	Packaging (Non Fe)	150	
15 01 07	Glass Bottles	112	
16 01 03	Tyres		9
16 01 06	Ferrous Metal from Vehicles	272	204
16 01 20	Flat Glass – ELV	197	
16 02 14	Discarded WEEE – depolluted	201	251
16 06 01*	Batteries	173	195
17 02 02	Flat Glass – C&D	2,771	
17 04 01	Copper & Brass – C&D	29	
17 04 02	Aluminium – C&D	308	20
17 04 03	Lead	18	
17 04 05	Ferrous Scrap – C&D	7,142	
17 04 06	Tin	40	
17 04 07	Mixed Metals	3,348	
17 04 11	Aluminium Cable	14	6
	Copper Cable	196	297
19 12 01	Iron & Steel – Waste Facilities		15,096
19 12 02	Ferrous Scrap – Waste Facilities	2,955	3,391
19 12 03	Non Ferrous Scrap – Waste Facilities	80	1,690
19 12 05	Glass – Waste Facilities		4,127
19 12 07	Wood		31
19 12 12	Non metallic waste from site		45
20 01 40	½ Steel	6,576	
	Total Received	**26,304.37**	
	Total Consigned		**25,946.00**
	Total Recovered		**25,845.02**
	Total Disposed		**100.98**
	Recovery Rate		**99.61%**

Table 5.2: Waste Received & Consigned 2009

EWC	Description	Waste In	Waste Out
12 01 01	Swarf	504.62	
12 01 03	Non Ferrous scrap		1,210.43
15 01 04	Packaging (Fe)	250.6	
	Packaging (Non Fe)	145.7	
15 01 07	Glass Bottles	511.6	58.68
16 01 03	Tyres		11.38
16 01 06	Ferrous metal from vehicles	145.98	
16 01 08	ELV metal, non ferrous	6.12	
16 01 17	Hydraulic Hoses		44.50
16 01 20	Flat Glass –ELV	477.1	
16 02 14	Discarded WEEE - depolluted	3,004.94	
16 06 01*	Batteries	151.42	174.54
16 08 01	Catalyst	2.5	
17 02 02	Flat Glass – C&D	1,835.25	1,399.69
17 04 01	Copper & Brass – C&D	103.03	
17 04 02	Aluminium – C&D	266.66	
17 04 03	Lead	20.6	
17 04 05	Ferrous Scrap – C&D	9,775.02	
17 04 06	Tin	0.7	
17 04 07	Mixed Metals	51.83	
17 04 11	Cable	16.16	
	Cables	163.47	
19 12 02	Ferrous scrap – Waste Facilities	6,041.92	19,657.60
19 12 03	Non- Ferrous scrap – Waste Facilities	156.52	
19 12 07	Wood		11.44
19 12 12	Non metallic waste from site		272.16
	Total Received	**23,631.77**	
	Total Consigned		**22,840.58**
	Total Recovered		**22,568.42**
	Total Disposed		**272.16**
	Recovery Rate		**98.81%**

Table 5.3 – Waste Received and Consigned since 2008

	2009	2008
Total Received	23631.77	1026.86
Total Consigned	22840.58	848.94
Recovery Rate	98.81%	100%

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

There were two exceedances of the dust deposition limit in 2010, both of which were reported to the Agency. There were no other incidents in the reporting period

The facility is in a well established Industrial Estate and there are no nearby sensitive receptors or high amenity land uses, for example residential areas, health facilities or recreational areas. Monitoring conducted when the site was not operational (May 2006 to July 2007) identified a number of exceedances of the dust deposition limit, indicating that there are significant off-site sources of dust.

6.2 Register of Complaints

MSM maintains a register of complaints received in accordance with Condition 3.11 of the waste licence. Sixteen complaints were received during the reporting period. Four related to noise, four to vibrations, three to dust, four to odour and one was miscellaneous. The full register is available to view at the facility office.

7. ENVIRONMENTAL DEVELOPMENT

7.1 Environmental Management Programme Report

MSM has introduced an Environmental Management System (EMS) for the facility. 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 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. The facility is certified to ISO 9001 and ISO 14001 and retains comprehensive procedures as part of the accreditation process.

7.1.1 Site Management Structure

Name	Experience
Con Ward (Managing Director)	41 years in Waste Management
Anthony Ward (Recycling Manager/Director)	41 years in Waste Management
Jason Ward (Yard Manager)	7 Years in Waste Management
Eamon Mitchell (Yard Manager)	16 Years in Waste Management. FAS Waste Management Course completed
Siobhán Carroll (Environmental Manager)	3 Years in Waste Management. BAI Civil and Environmental Engineering

7.1.2 Staff Training

Staff training carried out during the year included torchworks training, teleporter training, bobcat training and forklift training. The training records are kept on site.

7.2 Environmental Management Programme Proposal

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.

7.2.1 Schedule of Objectives and Targets 2010

The 2010 Schedule included four objectives, which are summarised in Table 7.1. An evaluation of what has been achieved to date is presented below.

Objective 1 – Improve Quality of Incoming Material

Waste Characterisation forms are given to all new customers as well as lists of all acceptable and unacceptable material. This is monitored closely by the Environmental Manager on a daily basis.

Objective 2 – Health and Safety Improvements

Measures were taken to improve the health and safety on site following an inspection by the Health & Safety Authority on 11th June 2010.

- Pedestrian and traffic routes were identified for the protection of employees and other persons as part of the on site traffic management plan.
- A second hand rail was installed on the steps to the environmental manager's office to minimise the risks of slips, trips and falls from height.

The Safety Statement will be reviewed in its entirety in 2011.

Objective 3 – Environmental Compliance

Meetings were held with occupants of a neighbouring site, Ricesteele in order to establish a direct line of communication and implement procedures to minimise impact of operations. Where necessary and possible, site activities were altered and adjusted to accommodate the neighbour requests.

Objective 4 – Environmental Compliance

Significant emphasis was placed on nuisance controls in 2010 in particular reducing noise and dust emissions.

7.3 Communications Programme

The following documents are available for public viewing at the facility:-

- Environmental and Health & Safety Policy,
- Waste Licence,

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

7.4 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".

Table 7.1: Schedule of Objective and Targets 2010

No	Objective	Target	Work Programme	Responsibility	Status
1	**Improve quality of incoming material**	Reduce contamination in incoming loads.	Apply existing waste acceptance procedure vigilantly	Environmental Manager	Completed
2	**H&S Improvements**	Review safety statement	Update if necessary	Environmental Manager	Completed
3	**Environmental Compliance**	Complete Environmental Risk Assessments	Carry out and record assessments	Environmental Manager	Completed
4	**Environmental Compliance**	Undertake management review	Plan and carry out management review every third month	Environmental Manager	Completed
			Review nuisance controls in particular dust mitigation measures		
5	**Legislative Compliance**	To meet all targets for Licence compliance	Ensure Compliance	Environmental Manager	Completed

Table 7.2: Schedule of Objective and Targets 2011

No	Objective	Description	Responsibility	Status
1	**Environmental Compliance**	Maintain communication with neighbouring premises	Environmental Manager	February 2011
2	**ISO Compliance**	Update manuals with current site procedures, and/or integrate Quality and Environmental manuals	Environmental Manager	June 2011
3	**H&S**	Review of Safety Statement	Environmental Manager	May 2011
4	**H&S**	Implement procedures to qualify for ISO H&S Standard 18001	Environmental Manager	August 2011

8. OTHER REPORTS

8.1 European Pollutant Release and Transfer Register

Under the European Pollutant Release and Transfer Register Regulation (EC) No. 166/2006 Greenstar is 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 1.

APPENDIX 1

European Pollutant Release and Transfer Register

| PRTR# : W0079 | Facility Name : Greenstar Ltd | Filename : W0079_2010.xls | Return Year : 2010 |

Guidance to completing the PRTR workbook

AER Returns Workbook

Version 1.1.11

REFERENCE YEAR	2010

1. FACILITY IDENTIFICATION

Parent Company Name	Greenstar Ltd
Facility Name	Greenstar Ltd
PRTR Identification Number	W0079
Licence Number	W0079-01

Waste or IPPC Classes of Activity

No.	class_name
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.
3.13	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.
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.

Address 1	Unit 41
Address 2	Cookstown Industrial Estate
Address 3	Tallaght
Address 4	Dublin 24
Country	Ireland
Coordinates of Location	-6.37582 53.294
River Basin District	IEEA
NACE Code	3832
Main Economic Activity	Recovery of sorted materials
AER Returns Contact Name	Declan O Reilly
AER Returns Contact Email Address	suzanne.byrne@greenstar.ie
AER Returns Contact Position	
AER Returns Contact Telephone Number	
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	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
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?	
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# : W0079 | Facility Name : Greenstar Ltd | Filename : W0079_2010.xls | Return Year : 2010 | 31/03/2011 10:34

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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

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

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

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

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 Ltd

Please enter summary data on the quantities of methane flared and / or utilised	**T (Total) kg/Year**	**M/C/E**	**Method Used**		**Facility Total Capacity m3 per hour**	
			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# : W0079 | Facility Name : Greenstar Ltd | Filename : W0079_2010.xls | Return Year : 2010 | 31/03/2011 10:35

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

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

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

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

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

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

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

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
			Method Used		SE-1			
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)	E	ESTIMATE	Based on an estimate of water used in wash downs and rain fall on yard area. Analysis is ISO accredited	78.56656	78.56656	0.0	0.0
303	BOD	E	ESTIMATE	Based on an estimate of water used in wash downs and rain fall on yard area. Analysis is ISO accredited	372.8822	372.8822	0.0	0.0
306	COD	E	ESTIMATE	Based on an estimate of water used in wash downs and rain fall on yard area. Analysis is ISO accredited	1146.189	1146.189	0.0	0.0
240	Suspended Solids	E	ESTIMATE	Based on an estimate of water used in wash downs and rain fall on yard area. Analysis is ISO accredited	479.5209	479.5209	0.0	0.0
314	Fats, Oils and Greases	E	ESTIMATE	Based on an estimate of water used in wash downs and rain fall on yard area. Analysis is ISO accredited	3123359.0	3123359.0	0.0	0.0
308	Detergents (as MBAS)	E	ESTIMATE	Based on an estimate of water used in wash downs and rain fall on yard area. Analysis is ISO accredited	4.924682	4.924682	0.0	0.0
343	Sulphate	E	ESTIMATE	Based on an estimate of water used in wash downs and rain fall on yard area. Analysis is ISO accredited	390.3328	390.3328	0.0	0.0
324	**Mineral oils**	E	ESTIMATE	Based on an estimate of water used in wash downs and rain fall on yard area. Analysis is ISO accredited	22.057	22.057	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

Link to previous years emissions data

SECTION A : PRTR POLLUTANTS

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

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	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
To Other Countries	12 01 01	No	252.0	ferrous metal filings and turnings	R4	M	Weighed	Abroad	European Metal Recycling Ltd,EZ WML/50065	West Edgerton Street,Salford,Manchester,M 5 4DY,United Kingdom		
To Other Countries	12 01 01	No	332.0	ferrous metal filings and turnings	R4	M	Weighed	Abroad	JM Criado S.I.,c/Torozos 4 47270	c/Torozos 4 47270,Cigales,Valladolid,.,Spain		
To Other Countries	16 01 06	No	204.0	end-of-life vehicles, containing neither liquids nor other hazardous components	R4	M	Weighed	Abroad	European Metal Recycling,WML 50447	Alexandra Building,Alexandra Dock 1,Bootle Liverpool,L20 1BX,United Kingdom		
Within the Country	16 01 03	No	9.0	end-of-life tyres	R5	M	Weighed	Offsite in Ireland	AES,W0194-01	Kyletalesha,Portlaoise,Co. Laois,.,Ireland		
Within the Country	16 06 01	Yes	195.0	lead batteries	R4	M	Weighed	Offsite in Ireland	KMK Metal Recycling,W0113-03	Cappincur Industrial Estate,Daingean Road,Tullamore,Co. Offaly,Ireland	KMK Metal Recycling,W0113-03,Cappincur Industrial Estate,Daingean Road,Tullamore,Co. Offaly,Ireland	Cappincur Industrial Estate,Daingean Road,Tullamore,Co. Offaly,Ireland
To Other Countries	16 02 14	No	251.0	discarded equipment other than those mentioned in 16 02 09 to 16 02 13	R4	M	Weighed	Abroad	FJ Church & Sons Ltd.,WML 80771	Centenary Works Manor Way,New Road Rainham,Essex,RM13 8RH,United Kingdom		
To Other Countries	17 04 02	No	20.0	aluminium	R4	M	Weighed	Abroad	European Metal Recycling,WML 50447	Alexandra Building,Alexandra Dock 1,Bootle Liverpool,L20 1BX,United Kingdom		
To Other Countries	17 04 11	No	297.0	cables other than those mentioned in 17 04 10	R4	M	Weighed	Abroad	FJ Church & Sons Ltd.,WML 80771	Centenary Works Manor Way,New Road Rainham,Essex,RM13 8RH,United Kingdom		
To Other Countries	17 04 11	No	6.0	cables other than those mentioned in 17 04 10	R4	M	Weighed	Abroad	SIMS Metal Management,WML 100413	Fourth Drove,Fengate,Peterborough ,PE1 5UR,United Kingdom		
To Other Countries	19 10 01	No	11050.0	iron and steel waste	R4	M	Weighed	Abroad	European Metal Recycling,WML 50447	Alexandra Building,Alexandra Dock 1,Bootle Liverpool,L20 1BX,United Kingdom		
To Other Countries	19 10 01	No	467.0	iron and steel waste	R4	M	Weighed	Abroad	JM Criado S.I.,c/Torozos 4 47270	c/Torozos 4 47270,Cigales,Valladolid,.,Spain		
To Other Countries	19 10 01	No	3579.0	iron and steel waste	R4	M	Weighed	Abroad	Comercial Benegeli S.L.,.	C/Las Penas,1 Urb. Puentalsierra,28210 Valdemorillo,Madrid,Spain		
To Other Countries	19 12 02	No	2655.0	ferrous metal	R4	M	Weighed	Abroad	European Metal Recycling,WML 50447	Alexandra Building,Alexandra Dock 1,Bootle Liverpool,L20 1BX,United Kingdom		
To Other Countries	19 12 02	No	556.0	ferrous metal	R4	M	Weighed	Abroad	European Metal Recycling Ltd,EZ WML/50065	West Edgerton Street,Salford,Manchester,M 5 4DY,United Kingdom		
To Other Countries	19 12 02	No	137.0	ferrous metal	R4	M	Weighed	Abroad	JM Criado S.I.,c/Torozos 4 47270	c/Torozos 4 47270,Cigales,Valladolid,.,Spain		

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Haz Waste : Name and Licence/Permit No of Next Destination Facility Non Haz Waste: Name and Licence/Permit No of Recover/Disposer	Haz Waste : Address of Next Destination Facility Non Haz Waste: Address of Recover/Disposer	Name and License / Permit No. and Address of Final Recoverer / Disposer (HAZARDOUS WASTE ONLY)	Actual Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
To Other Countries	19 12 02	No	43.0	ferrous metal	R4	M	Weighed	Abroad	S Norton & Co Ltd,WML 30195/M01	South Canada Branch 2 Dock,Regent Road,Liverpool,L20 1DQ,United Kingdom		
To Other Countries	19 12 03	No	504.0	non-ferrous metal	R4	M	Weighed	Abroad	European Metal Recycling,WML 50447	Alexandra Building,Alexandra Dock 1,Bootle Liverpool,L20 1BX,United Kingdom		
To Other Countries	19 12 03	No	19.0	non-ferrous metal	R4	M	Weighed	Abroad	European Metal Recycling Ltd,EZ WML/50065	West Edgerton Street,Salford,Manchester,M 5 4DY,United Kingdom		
To Other Countries	19 12 03	No	812.0	non-ferrous metal	R4	M	Weighed	Abroad	FJ Church & Sons Ltd.,WML 80771	Centenary Works Manor Way,New Road Rainham,Essex,RM13 8RH,United Kingdom		
To Other Countries	19 12 03	No	68.0	non-ferrous metal	R4	M	Weighed	Abroad	Comercial Benegeli S.l.,.	C/Las Penas,1 Urb Puentelasierra,28210 Valdemorillo,Madrid,Spain		
To Other Countries	19 12 03	No	104.0	non-ferrous metal	R4	M	Weighed	Abroad	Novelis UK Ltd.,BL6802	Latchford Lock Works,Thelwall Lane,Latchford Warrington,WA4 1NN,United Kingdom		
To Other Countries	19 12 03	No	12.0	non-ferrous metal	R4	M	Weighed	Abroad	SIMS Metal Management,WML 100413	Fourth Drove,Fengate,Peterborough ,PE1 5UR,United Kingdom		
Within the Country	19 12 03	No	171.0	non-ferrous metal	R4	M	Weighed	Offsite in Ireland	P Carney Ltd.,P402-02	Crossakiel,Kells,Co. Meath,.,Ireland		
Within the Country	19 12 05	No	112.0	glass	R5	M	Weighed	Offsite in Ireland	John Gannon & Sons Ltd.,Exempt	Split Hill Quarries,Hazelwood,Kilbegg an,Co. Westmeath,Ireland		
To Other Countries	**19 12 05**	**No**	4015.0	glass	R5	M	Weighed	Abroad	Viridor Waste Management,WML 83464	Century Wharf,Crayford Creek,Crayford Kent,DA1 4QG,United Kingdom		
Within the Country	19 12 07	No	31.0	wood other than that mentioned in 19 12 06	R3	M	Weighed	Offsite in Ireland	AES,W0194-01	Kyletalesha,Portlaoise,Co. Laois,.,Ireland		
Within the Country	19 12 12	No	45.0	other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 11	D5	M	Weighed	Offsite in Ireland	AES,W0194-01	Kyletalesha,Portlaoise,Co. Laois,.,Ireland		
Within the Country	20 03 01	No	78.76	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Greenstar Limited,W0188-01	Greenogue Business Park,Rathcoole,Co. Dublin,.,Ireland		
Within the Country	20 03 01	No	63.88	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	AES,W0194-01	Kyletalesha,Portlaoise,Co. Laois,.,Ireland		

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