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**ANNUAL ENVIRONMENTAL REPORT**  
**GREENSTAR ENVIRONMENTAL SERVICES LIMITED**  
**MATERIALS RECOVERY FACILITY**  
**DOCK ROAD, LIMERICK**  
**LICENCE NO. W0082-02**  
**JANUARY 2013 – DECEMBER 2013**

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## 1. INTRODUCTION

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This is the 2013 Annual Environmental Report (AER) for the Greenstar Environmental Services Ltd. (GES), Materials Recovery Facility (MRF) at Ballykeefe, Dock Road, Limerick (W0082-02) and covers the reporting period January 2013 to December 2013. During the reporting period, GES was in receivership but ownership of the company and transfer of the licence to Starrus Eco Holdings Ltd (trading as Greenstar) was completed in March 2014.

The content is based on Schedule F of the Licence and the report format follows guidelines set in the “Guidance Note for Annual Environmental Report” issued by the Environmental Protection Agency (Agency)<sup>1</sup>. Cognisance was also taken of the Agency AER Draft Guidance Document and Draft AER Templates issued in January 2013<sup>2</sup>.

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 EPA (Environmental Protection Agency) 1999 Waste Licensing – Draft Guidance on Environmental Management Systems and Reporting to the Agency

<sup>2</sup> EPA (Environmental Protection Agency) 2012 Draft AER Guidance Document

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## 2. SITE DESCRIPTION

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### 2.1 Site Location and Layout

The facility is located on the Dock Road in Limerick, in an area dominated by industrial and commercial buildings and activities. It is adjacent to the N69, on the main Limerick to Foynes road.

There are two adjoining buildings, comprising a recycling area and transfer area. There is also a separate office building and adjoining vehicle and plant maintenance workshop located close to the site entrance. The open yard areas are paved and are used for external waste storage bays (C&D, glass, metals and timber), baling and storage of wrapped wastes, skip storage, truck parking and a vehicle washing area (not in use during the reporting period). The entire site, including the floors of the transfer buildings and the open yards, are paved with concrete.

### 2.2 Waste Management Activities

The Licence allows GES to accept and process 90,000 tonnes of commercial and industrial, construction and demolition and municipal wastes.

#### 2.2.1 Waste Types & Processes

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

- Commercial and Industrial Waste (70,000 tonnes),
- Municipal (15,500 tonnes),
- Construction & Demolition (4,500 tonnes).

In July 2012 Schedule A of the Licence was amended by the Agency to allow for the following waste types and quantities-

- Commercial and Industrial Waste (10,500 tonnes),
- Municipal (75,000 tonnes),
- Construction & Demolition (4,500 tonnes).

No hazardous wastes or liquid waste are accepted. The maximum amount of each waste type accepted, may be altered with the prior agreement of the Agency, as long as the total maximum tonnage is not exceeded.

The key processes carried out at the facility include: -

- Segregation of recyclable materials (paper, cardboards, plastic, wood, metals, glass);
- Bulking up of Municipal Solid Waste;
- Segregation and bulking of C&D waste;
- Transfer of recovered and residual materials to appropriately licensed recycling, recovery and disposal outlets, and
- Timber shredding
- Baling and wrapping of waste material (20 03 01)

#### *Commercial and Industrial Waste*

Both mixed and segregated commercial waste is collected from commercial sources. Commercial waste rich in recyclables (paper, cardboard, glass, metal, green waste and wood) is delivered by both permitted third party hauliers and by GES vehicles. Plastic, card and paper are baled and stored prior to transfer to a suitable permitted/licensed off-site recycling outlet. Timber recovered from the mixed C&I waste stream and that delivered to the facility as a single waste stream is shredded onsite. Biodegradable wastes suitable for composting are sent to an offsite composting facility. The remaining non-recyclable material is bulked and sent to appropriate licensed disposal facilities.

#### *C&D Waste*

Waste loads include mixed construction and demolition wastes and soil and stone. The material arrives in skips of varying sizes. The loads are inspected, with any plasterboard removed and placed in a dedicated skip located inside the building, and the remainder off loaded into an external C&D bay. The majority of the incoming waste is recovered and sent off-site either for re-use or recycling. The non-recyclable materials are transferred to a licensed landfill.

#### *Municipal Waste*

All mixed MSW is handled inside the building. The incoming waste is deposited on the floor of the building and is then compacted, for removal and disposal at an approved residual landfill facility or re-directed to the onsite baler for the production of wrapped bales of waste material for export to approved recovery facilities.

### *Timber Shredding*

Untreated timber pallets and untreated construction timbers were shredded in the northern area of the yard and stored in a shred timber bay prior to dispatch either for use as a compost bulking/aeration agent, or as raw material for chipboard/MDF manufacturers. This process was discontinued in 2012.

### *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 capacity.

**Table 2.1** Existing Plant

<b>No.</b>	<b>Plant</b>	<b>Operational Capacity tpd</b>	<b>Standby Capacity tpd</b>
1	360° case Excavator	300	200
1	Volvo Loading Shovel	500	350
2	Doppstadt shredders	200	150
1	Cardboard baler	100	75
1	Waste Baler	350	200
3	New Holland teleporters	350	200
1	Hyster forklift	100	75
1	Scaram minor roadsweeper	n/a	n/a

### 3. EMISSION MONITORING

The monitoring specified in the licence includes surface water, wastewater, groundwater, dust and noise monitoring. The monitoring locations are shown on Figure 3.1. The monitoring results are included in reports submitted to the Agency at quarterly intervals and an overview of the monitoring completed in 2013 is presented in this Section.

#### 3.1 Surface Water Monitoring

Surface water is generated by rainfall on roofs and the paved open yard areas. The run-off is collected and is currently discharged via 1 No. three chamber interceptor to a man made drain at the eastern site boundary. The drain discharges to the Ballinacurra Creek, which ultimately joins the River Shannon.

The Licence requires surface water monitoring at two discharge points from the oil interceptor (FE1A and FE1B). FE1B is at the overflow point and the only flow occurs during periods of very high rainfall. Following discussions with the Agency in January 2012 the discharge point FE1B was sealed and all discharges from the interceptor directed through FE1A.

Monitoring is also required in the drain upstream (WS9) and downstream (WS10) of the discharge points. The monitoring results are included on Tables 3.1 to 3.3. The proposed emission limit value (ELV) for Total Suspended Solids (TSS) was exceeded at the discharge in March 2013. In August 2013 BOD was marginally exceeded at the discharge location. In November the discharge complied with the ELVs. The quality of the surface water discharge is generally good with the exception of TSS in March which are likely to be associated with yard sediments becoming entrained in the discharge.

**Table 3.1** Surface Water Monitoring Results – March 2013

Parameter	Units	WS9 - UP	FE1A Discharge	WS10-DOWN	Range 2011	ELV*	EQS
pH	pH units	7.39	6.93	7.26		-	
BOD	mg/l	11	12	29	4-106	25	
Total Suspended Solids	mg/l	13	80	60	<1-113	60	
Ammonia Nitrogen	mg/l	0.16	2.40	1.55		4	
Fats Oils Grease	mg/l	<1	<1	<1		-	-
Mineral Oils	mg/l	<1.0	<1.0	<1		5	0.01
TOC	mg/l	7.48	35.78	14.02		-	-
Arsenic - dissolved	ug/l	0.002	0.002	0.002			25
Cadmium - dissolved	ug/l	0.7	0.6	0.6		-	5
Chromium - dissolved	ug/l	1	2	1		-	30
Copper - dissolved	ug/l	2	2	<2		-	30
Mercury - dissolved	ug/l	<0.015	<0.015	<0.015		-	1
Nickel - dissolved	ug/l	<2	4.8	3.0		-	20
Lead - dissolved	ug/l	<0.8	<0.8	<0.8		-	10
Zinc - dissolved	ug/l	32	14	4		-	100

\* ELV applies to discharges – FE1A only.



**Table 3.2** Surface Water Monitoring Results – August 2013

Parameter	Units	WS9 - UP	FE1A Discharge	WS10-DOWN	Range 2011	ELV*	EQS
pH	pH units	7.68	7.01	7.31		-	
BOD	mg/l	<2	29	6	4-106	25	
Total Suspended Solids	mg/l	13	50	21	<1-113	60	
Ammonia Nitrogen	mg/l	0.14	2.41	0.31		4	
Fats Oils Grease	mg/l	<1	1.59	1.17		-	-
Mineral Oils	mg/l	<1	<1	<1		5	0.01
TOC	mg/l	<5	9.87	<5		-	-
Arsenic - dissolved	ug/l	0.920	1.00	1.7			25
Cadmium - dissolved	ug/l	0.3	1.0	0.4		-	5
Chromium - dissolved	ug/l	<0.6	2	<0.6		-	30
Copper - dissolved	ug/l	4	5	4		-	30
Mercury - dissolved	ug/l	<0.013	<0.013	0.0140		-	1
Nickel - dissolved	ug/l	<2	5.4	<2		-	20
Lead - dissolved	ug/l	<0.8	1.00	<0.8		-	10
Zinc - dissolved	ug/l	16	72	15		-	100

\* ELV applies to discharges – FE1A & B only.

**Table 3.3** Surface Water Monitoring Results – November 2013

Parameter	Units	WS9 - UP	FE1A Discharge	WS10-DOWN	Range 2011	ELV*	EQS
pH	pH units	7.36	7.0	7.45		-	
BOD	mg/l	4	14	6	4-106	25	
Total Suspended Solids	mg/l	3	13	8	<1-113	60	
Ammonia Nitrogen	mg/l	0.62	0.62	0.48		4	
Fats Oils Grease	mg/l	<1	<1	<1		-	-
Mineral Oils	mg/l	<0.001	<0.001	<0.001		5	0.01
TOC	mg/l	5.29	10.90	6.51		-	-
Arsenic - dissolved	mg/l	0.001	0.001	0.001			25
Cadmium - dissolved	mg/l	0.2	<0.125	<0.125		-	5
Chromium - dissolved	mg/kg	1	2	1		-	30
Copper - dissolved	mg/l	23	31	22		-	30
Mercury - dissolved	mg/l	<0.013	<0.0130	<0.013		-	1
Nickel - dissolved	mg/l	2.5	2.2	2.1		-	20
Lead - dissolved	mg/l	<0.8	<0.8	1.00		-	10
Zinc - dissolved	mg/l	14	37	11		-	100

### 3.2 Foul water Monitoring

Foul water is treated in the on-site Klargestor treatment plant, with the treated effluent discharged to an on-site percolation area. Following a request by the Agency in December 2011 a detailed Waste Water Treatment System Risk Assessment was completed by IE Consulting Engineers in 2012. The report showed that the average daily treated effluent discharge to the percolation area is 0.4m<sup>3</sup>/day, which is a relatively low volume of discharge.

When rainfall over the percolation area is taken into consideration, the total hydraulic loading is 0.483m<sup>3</sup>/day. Effluent monitoring data for 2011 to date indicates concentrations of all parameters within the treated effluent (pre sand filter) are within the Agency's recommended minimum performance standards and within the manufacturer's design standards.

Foul water monitoring is required at two monitoring locations, FE2 which is the discharge from the treatment plant and at the truckwash discharge. The truckwash has not been used since Q3 2010 and therefore no samples were collected at this location during the monitoring period.

The monitoring results are included on Table 3.4. There are no ELVs set in the licence and for comparative purposes the table includes the performance standards set in the EPA Waste Water Treatment Manual Guidelines. The discharge was generally of good quality, with the exception of BOD and TSS levels in January and marginally elevated TSS in March. The treated effluent discharges to ground and it is understood that the percolation area is not categorised as being located in a nutritionally sensitive area.

**Table 3.4 – Foul Water Monitoring Results 2013**

Parameter	Units	28th January 2013	22nd March 2013	30th May 2013	28th June 2013	26th Sept 2013	9th Dec 2013	Performance Standards
pH	pH units	6.96	7.39	7.69	8.09	7.47	7.78	-
BOD	mg/l	76	20	6	3	14	8	20
Total Suspended Solids	mg/l	64	34	5	10	4	29	30
Ammonia Nitrogen	mg/l	1.72	11.18	0.07	0.07	6.54	13.8	20
Fats Oils Grease	mg/l	<1	<1	<1	<1	<1	<1	-
Sulphate	mg/l	34.1	51.1	82.4	54.3	81.1	171.2 4	-
Total Phosphorous	mg/l	2.23	0.94	0.59	2.31	2.22	2.434	-
Total Nitrogen	mg/l	<10	12.27	33.56	11.25	42.72	46.6	-
Nitrate	mg/l	<2	<2	19.23	50.9	34.8	<0.2	-
Nitrite	mg/l	0.03	0.01	0.26	0.16	1.56	0.44	-
COD	mg/l	191	126	54	44	76	97	-

-Not Analysed

Ns – Not set

### 3.3 Groundwater Monitoring

Groundwater monitoring is carried out bi-annually at three wells, GWM1, GWM2 and GWM3. GWM1 is close to the entrance to the dry recyclables recycling building, GWM2 is at the northern site boundary and is downgradient of site activities. GWM3 is outside the operational area and is upgradient of site activities.

There are no ELVs or Trigger Levels set in the Licence. For interpretation purposes the results had, up to Q2 2011, been compared to the Interim Guideline Values (IGV) for groundwater published by the Agency. Since then, the results are also compared to the Threshold Values for groundwater (GTV) quality introduced by the European Communities Environmental Objectives (Groundwater) Regulations 2010 S.I. No 9 of 2010. The IGV levels represent typical background or unpolluted conditions, however levels higher than the IGV can occur naturally, depending on the local geological and hydrogeological conditions. While the Threshold Values are more appropriate for large scale abstraction wells used for potable supply, they can be used to assess the significance of contamination where present in groundwater. Because not all parameters monitored have been assigned Threshold Values, the relevant IGV continue to be used for comparative purposes.

In October 2013, OCM on behalf of GES submitted proposed groundwater trigger levels for the Agency's approval. Although the proposed trigger levels have not yet been approved they are included for information purposes in Table 3.5. The monitoring results are summarised in Tables 3.6 and 3.7.

**Table 3.5** Proposed Trigger Levels

Borehole	Electrical Conductivity P Trigger (mS/cm)	Ammoniacal Nitrogen P Trigger (mg/l)
GWM1	1.140	11.89
GWM2	1.790	10.31
GWM3	1.120	1.87

**Table 3.6 -** Groundwater Monitoring Results – May 2013

Parameter	Units	GWM1	GWM2	GWM3	GTV	IGV
BOD	mg/l	25	2	7	-	-
TSS	mg/l	2748	2708	420	-	-
Dissolved Oxygen	mg/l	4.47	6.09	4.98	-	NAC
Oils, Fats & Greases	mg/l	2	<1	<1	-	-
Total Phosphorus	mg/l	2.8	0.52	0.41	-	-
Ammoniacal Nitrogen	mg/l	7.45	0.89	0.66	0.175	0.12
Conductivity	mS/cm	0.868	0.935	0.815	1.875	1.000
DRO	mg/l	0.66	<0.01	1.88	-	0.01
TPH	mg/l	0.861	<0.01	3.37	-	0.01
Undecane (C10-C12)	mg/l	<0.01	<0.01	<0.01	-	-

**Table 3.7 - Groundwater Monitoring Results – December 2013**

Parameter	Units	GWM1	GWM2	GWM3	GTV	IGV
BOD	mg/l	6	<1	2	-	-
TSS	mg/l	648	247	920	-	-
Dissolved Oxygen	mg/l	8	6	4	-	NAC
Oils, Fats & Greases	mg/l	<0.1	<0.1	<0.1	-	-
Total Phosphorus	mg/l	1.8	0.618	0.456	-	-
Ammoniacal Nitrogen	mg/l	12.57	3.70	1.04	0.175	0.12
Conductivity	mS/cm	1.291	1.004	0.903	1.875	1.000
Mineral Oil	mg/l	<0.01	<0.01	<0.01	-	0.01
EPH/DRO	mg/l	0.730	<0.01	<0.01	-	0.01
Undecane (C10-C12)	mg/l	<0.01	<0.01	<0.01	-	-

### 3.3.1 Groundwater Discussion

The results are generally consistent with those of previous monitoring events which have found elevated levels of ammoniacal nitrogen at each location and hydrocarbons occurring intermittently at GWM1 and GWM3.

The reason for the low levels of hydrocarbons detected at GWM1 and GWM3 in 2013 is unknown. There have been no known incidents at the facility likely to have caused contamination. Further monitoring scheduled for 2014 will determine if the levels persist.

## 3.4 Noise Monitoring

The annual noise survey was carried out on the 8<sup>th</sup> October 2013 at three onsite boundary monitoring (NI1 – NI3) locations and one offsite location (NI4). The survey was conducted when the site was fully operational and confirmed that noise emissions fully complied with the licence conditions and that the facility is not impacting negatively on the nearest sensitive receptors. A summary of the noise results is shown on Table 3.8.

Noise limits set out in the waste licence are considered applicable to Noise Sensitive Locations (NSLs). An inspection of the nearest NSLs during the survey indicated that facility operations were not audible, and thus lower than the 55 dB daytime noise limit. The three onsite locations are dominated by facility activities but there are no NSLs in the vicinity of these locations. At NI4, GES emissions were not audible.

**Table 3.8** Noise Monitoring Results 2013

Station	Time	LAeq 30 min dB	LAF10 30 min dB	LAF90 30 min dB	Specific level* dB	Noise audible
NI1	1057- 1127	60	62	45	58	Little or no site activity from 1100 apart from sporadic truck movements on yard, audible at low level when present, with one nearby movement significant. No other site noise audible. Road traffic to W clearly audible and significant. Bird calls significant.
NI2	1024- 1054	54	53	43	54	Telescopic loader operating in yard almost continuously dominant. Baling plant in building also clearly audible. No other onsite sources audible during interval. Distant road traffic to NW faintly audible during loader lulls. Bird calls occasionally significant.
NI3	0945- 1015	57	62	49	57	Conveyor and baler in adjacent building continuously audible and dominant. Frequent forklift truck movements in nearest parts of building and yard also significant. No other noise audible, apart from slightly audible road traffic to W.
NI4	1136- 1206	71	73	62	<<62	No site emissions audible. Passing road traffic continuously dominant and intrusive. No other noise audible apart from occasional vehicles on site access road.

### 3.5 Dust Monitoring

Dust monitoring was carried out on two occasions (between May and September as required by the licence) at three on-site locations (DM1, DM2 and DM3) in May and June 2013. As required by the licence, a third monitoring event for outside this period (October – April) was conducted in October 2013. The results of the monitoring are included on Table 3.9.

The dust emission limit (350 mg/m<sup>2</sup>/day) was not exceeded at any monitoring location during the monitoring period.

**Table 3.9** Dust Monitoring Results 2013

<b>Dust Emission (mg/m<sup>2</sup>/day)</b>	<b>May 2013</b>	<b>June 2013</b>	<b>October 2013</b>	<b>Emission Limit</b>
<b>Sample Location</b>	<b>30 Days</b>	<b>30 Days</b>	<b>29 Days</b>	<b>(mg/m<sup>2</sup>/day)</b>
<b>DM1</b>	28.1	3.0	66.2	350
<b>DM2</b>	22.2	5.9	82.5	350
<b>DM3</b>	35.7	4.5	59.5	350



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CLIENT

Greenstar Environmental Services Ltd.

TITLE

Monitoring Locations  
 Limerick W0082-02

FIGURE NUMBER

3.1

Scale

Not To Scale

Revision

A

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## 4. SITE DEVELOPMENT WORKS

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### 4.1 Specified Engineering Works (SEW)

No Specified Engineering Works were completed during 2013 however a number of infrastructural improvements were completed during the year including

- Concrete repairs were made to floor of MRF Building.
- Significant improvements were made to enable safe access to the surface water monitoring sampling locations.
- A new permanent (and covered) bund was installed around the diesel storage tank in August 2013.
- A new bunded chemical store was which is used to store potentially hazardous materials and for waste quarantine was installed in September 2013.
- Repairs were made to the MRF building cladding to ensure wastes were contained within the building.

### 4.2 Summary of Resource & Energy Consumption

Table 4.1 presents an estimate of the resources used on-site during the reporting period and for comparative purposes the volumes for 2011 and 2012.

**Table 4.1** Estimate of Resources Used On-Site 2013, 2012 & 2011 –

Resources	Quantities 2013	Quantities 2012	Quantities 2011
Diesel (green)	69,608 litres	60,000 litres	43,000 litres
Electricity	126,266kwh	113,567 kwh	65,000 kwh s
Hydraulic Oil	4500 litres	4500 litres	400 litres
Engine Oil	1000 litres	1500 litres	150 litres
Mains Water	11,873 m <sup>3</sup>	8200 m <sup>3</sup>	265 m <sup>3</sup>



### **4.3 Bund Integrity & Pipeline Testing**

The Licence was Technically Amended on February 2<sup>nd</sup> 2011 and now includes condition 3.11.5 which states that the integrity testing of all underground pipelines and tanks must be carried out every 3 years. A new covered bund was installed in August 2013 around the diesel storage tank at the site and was tested immediately prior to installation. A separate stand alone bunded chemical store which is used for the storage of miscellaneous potentially hazardous materials (oil drums, paint cans etc) and quarantined wastes was also installed at the site in September 2013 Both were tested and passed fit for purpose and will be tested again in 2016.

The integrity of the surface water drainage system including the interceptor was assessed through a CCTV survey in 2012. Defects were subsequently addressed through a range of civil works completed in May 2012. Further CCTV surveying of the surface water and foul water drains was again completed in November 2013 and the results are currently under review.

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## **5. WASTE RECEIVED AND CONSIGNED FROM THE FACILITY**

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Table 5.1 shows the total quantities of waste received and consigned from the facility in 2013. Table 5.2 shows the quantities of waste received and consigned in previous years. A breakdown of the waste types is provided in accordance with the European Waste Catalogue and Hazardous Waste list. A more detailed breakdown of the wastes received and consigned is presented in the PRTR submission in Appendix 1. The total quantity of waste received was 87,928 tonnes. The total waste consigned was 88,345 tonnes. The difference (417 tonnes) remained onsite at the end of 2012 pending removal offsite in 2014.

All the wastes consigned from the site went to authorised recovery and disposal facilities.

**Table 5.1** Waste Received & Consigned 2013

<b>EWC</b>	<b>Description</b>	<b>Waste In</b>	<b>Waste Out</b>
07 01 12	Sludge	18	
10 10 08	Casting cores and moulds	29	
15 01 01	Cardboard & Paper Packaging	4,326	4,721
15 01 02	Plastic Packaging	283	212
15 01 03	Wooden packaging	1	
15 01 06	Mixed packaging	2,422	1,544
15 01 07	Glass Packaging	46	
17 01 07	Minerals	315	4,081
17 02 01	wood	21	
17 02 03	plastic	3	
17 05 04	Soil & Stones	223	165
17 08 02	Plasterboard from C&D		
17 09 04	Mixed C&D	3,202	49
19 05 02	Non-composted animal and Veg waste	4	
19 12 12	Other wastes		1,577
20 01 01	Paper & Cardboard	1,470	525
20 01 02	Glass	186	175
20 01 08	Commercial food waste	2,022	2,030
20 01 36	Discarded electrical and electronic equipment	2	1
20 01 38	Timber	590	836
20 01 39	Plastic	210	
20 01 40	Metal	465	748
20 02 01	GreenWaste	47	
20 03 01	Mixed Municipal waste	67,170	65,812
20 03 03	Street Cleaning	1,398	489
20 03 07	Bulky Waste	3,475	5,380
	<b>Total Received</b>	<b>87,928</b>	
	<b>Total Consigned</b>		<b>88,345</b>
	<b>Disposal</b>		<b>7,551</b>
	<b>Recovery</b>		<b>80,794</b>
	<b>Recovery Rate</b>		<b>91%</b>

**Table 5.3** Waste Received & Consigned

	<b>2012</b>	<b>2011</b>	<b>2010</b>	<b>2009</b>	<b>2008</b>
<b>Total Received</b>	55,992	32,550	34,835	42,536	58,203
<b>Total Consigned</b>	55,430	33,335	34,476	41,547	58,654

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## **6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS**

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### **6.1 Incidents**

The emission limit value (ELV) for TSS was exceeded at the surface water discharge in March 2013. In August 2013 the BOD level marginally exceeded the trigger level at the surface water discharge location. All exceedances were treated as incidents and reported to the Agency, Limerick County Council and the Fisheries board. There were no other incidents.

### **6.2 Register of Complaints**

GES maintains a register of complaints received in accordance with Condition 10.4 of the Licence. No complaints were received during the reporting period.

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## 7. ENVIRONMENTAL DEVELOPMENT & CONTROL

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### 7.1 Environmental Management Programme Report

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

The IMS has been developed for the achievement of continual improvement taking into account the requirements of the Waste Licence Conditions. GES has prepared and effectively implemented documented procedures and instructions in accordance with the requirements of both the OHSAS 18001:2007 and ISO 14001:2004. The facility is accredited to both standards.

The schedule of Objectives and Targets, including their status for 2013 (Table 7.1), as well as the proposed Objectives and Targets for 2014 (Table 7.2) are presented below. An index of procedures used at the facility is included in Appendix 2.

#### 7.1.1 Site Management Structure

Management and Staffing structure: -

**Name:** Emma Pearce,

**Responsibility:** Operations Manager

**Experience:** 9 years experience waste management experience; has completed the FÁS waste management course.

**Name:** Dominic Broadhurst

**Responsibility:** Yard Supervisor

**Experience:** 3 years waste management experience

### *7.1.2 Staff Training*

Staff training carried out during the year included environmental awareness training to key site staff as well as regular tool box talks. Details on staff training for 2013 are available in the facility office.

## **7.2 Environmental Management Programme**

### *7.2.1 Schedule of Objectives 2013*

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

### *7.2.2 Schedule of Objectives 2014*

A schedule of targets and objectives for 2014 has been set by the management of the facility. These objectives are outlined in Table 7.2.

## **7.3 Communications Programme**

GES are committed to setting the standard in waste management and ensuring environmental compliance in all operations. In addition, GES's Environmental, Health & Safety Policy makes a specific commitment to ensure that this policy and environmental records are available to the public and interested parties.

To this end GES has drawn up a Communications Programme, which details how members of the public are facilitated in accessing and viewing environmental information at the facility. Members of the public who wish to inspect these files may do so at any reasonable time by making an appointment with the Operations Manager using the telephone number posted on the main facility entrance sign.

## **7.4 Report Financial Provision**

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

**Table 7.1** Objectives and Targets for 2013

No	Objective	Target	Responsibility	STATUS
1	<b>Awareness and Training</b>	Continue to ensure that appropriate training is carried out specific to all site personnel as per the Company's established Training Matrix.	Site Management	Ongoing
2	<b>Energy &amp; Resource Consumption</b>	Summarise energy and resource usage on a quarterly basis with a view to reducing consumption	Site Management	Ongoing
3	<b>Review and Assess the Effectiveness of Nuisance Control Procedures</b>	Continually review and assess all nuisance control procedures to ensure minimal impact on the surrounding area.	Site Management	Bird deterrent measures investigated and system to be put in place in 2014
		Commission a bird control specialist to assess the facility and compile recommendations regarding any bird control measures which may be employed at the facility should they be required.		
4	<b>Connect the waste water emissions to the Local Authority WWTP</b>	Progress agreements with neighbours within the industrial estate and Limerick County Council to allow for the connection of the foul water discharges to the municipal foul sewer.	Site Management	Being progressed through the landlords
5	<b>Pollution Prevention</b>	Strive to ensure that emissions comply with the licence limits and investigate any exceedances of emission limit values.	Site Management	Increased cleaning regime, road sweeper twice per week



No	Objective	Target	Responsibility	STATUS
6	<b>Drainage Maintenance</b>	Conduct further clean outs in the surface water pipeline system and interceptor.	Site Management	Interceptor cleaned July 2013 Drains jetted April 2013 Drains jetted November 2013
7	<b>Odour Management</b>	Compile an Odour Management Plan for the facility and include it on the training matrix referred to in Objective 1	Site Management	Odour assessments carried out
8	<b>Aid Limerick County Council with their SW investigation</b>	Provide assistance to Limerick County Council as they attempt to map the surface water flows in the vicinity of the facility	Site Management	Ongoing
9	<b>Licence Review</b>	Compile Environmental Impact Statement to accompany a planning application and waste licence review application to increase tonnages at the facility.	Group Environmental Manager	Complete
10	<b>Waste Storage</b>	Review waste wood processing & storage practices taking account of the recent Agency Position Paper on the Management of Wood Waste	Site Management	All waste wood goes to a 3 <sup>rd</sup> party, stockpile is kept to a minimum

**Table 7.2** Schedule of Objective and Targets 2014

No.	Objective	Target	Timescale	Responsibility
1	<b>Improve Bird Control</b>	Investigate bird control systems and commission measures.	<b>Q3-Q4</b>	<b>Site Management/EHS</b>
2	<b>Hydrogeological Assessment</b>	Complete Hydrogeological Assessment of the site in accordance with Condition 7.9 of Technical Amendment B	<b>Q2 2014</b>	<b>EHS</b>
3	<b>Decommission Klargester</b>	Decommission the onsite Klargester WWTP following connection to the municipal sewer.	<b>Subject to Council Agreement</b>	<b>EHS</b>
4	<b>Install entrance barrier and upgrade to site fencing</b>	Carry out improvements to site entrance including the installation of barriers and maintenance of site fencing.	<b>Q3-Q4</b>	<b>Site Management/EHS</b>
5	<b>IED Licence Submission/determination</b>	Submit an IED Licence application to increase capacity in line with planning permission	<b>Q2 2014</b>	<b>Site Management/EHS</b>
6	<b>Connect the waste water emissions to the Local Authority WWTP</b>	Progress the proposed connection of the foul water to the municipal WWTP	<b>Q2 – Q3</b>	<b>Site Management/EHS</b>
7	<b>Development and adoption of Fire Prevention Procedure at the facility</b>	Reduce risk of fire and enable early detection	<b>Q2 2014</b>	<b>Site Management/EHS</b>
8	<b>Review of Emergency Response Plan to incorporate fire prevention procedure and new structure</b>	Revision of Plan and additional training for site personnel	<b>Q2 2014</b>	<b>Site Management/EHS</b>
9	<b>Achieve re-certification to ISO 14001 and OHSAS 18001 standard</b>	3 year certification period expires in 2014. The facility requires re-certification.	<b>Q3/Q4 2014</b>	<b>Site Management/EHS</b>

<b>10</b>	<b>Develop and maintain traffic management plan at the facility</b>	Review of all on-site traffic management	<b>Q2/Q3 2014</b>	<b>Site Management/EHS</b>
<b>11</b>	<b>Environmental Training of Facility Staff</b>	Update training presentation and ensure training of key managerial staff	<b>Q2/Q3 2014</b>	<b>Site Management/EHS</b>
<b>12</b>	<b>Site Signage</b>	Facility Notice Boards to be replaced to reflect new ownership	<b>Q1 2014</b>	<b>Site Management/EHS</b>

## **7.5 Nuisance Controls**

GES has contracted a vermin control company to carry out nuisance control at the facility. Rentokil Initial Ltd provides and maintains forty bait boxes at the facility and also carries out insect control measures as required. Weekly nuisance and litter inspections are carried out by the Environmental Officer and litter picks are carried out daily.

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## **8. OTHER REPORTS**

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### **8.1 European Pollutant Release and Transfer Register Regulation**

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

# **APPENDIX 1**

## European Pollutant Release and Transfer Register

[Guidance to completing the PRTR workbook](#)

# AER Returns Workbook

Version 1.1.18

<b>REFERENCE YEAR</b>	2013
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## 1. FACILITY IDENTIFICATION

Parent Company Name	Starrus Eco Holdings Limited
Facility Name	
PRTR Identification Number	W0082
Licence Number	W0082-02

### Waste or IPPC Classes of Activity

No.	class_name
3.12	Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule.
3.13	Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced.
4.13	Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced.
4.2	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.
Address 1	Ballykeefe Townland
Address 2	Waste Management Section
Address 3	Dock Road
Address 4	Limerick
	Limerick
Country	Ireland
Coordinates of Location	-8.66662 52.651
River Basin District	IEGBNISH
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
<b>AER Returns Contact Name</b>	Malcolm Dowling
<b>AER Returns Contact Email Address</b>	malcolm.dowling@greenstar.ie
<b>AER Returns Contact Position</b>	Group Compliance Manager
<b>AER Returns Contact Telephone Number</b>	012947976
<b>AER Returns Contact Mobile Phone Number</b>	
<b>AER Returns Contact Fax Number</b>	
<b>Production Volume</b>	0.0
<b>Production Volume Units</b>	
<b>Number of Installations</b>	0
<b>Number of Operating Hours in Year</b>	0
<b>Number of Employees</b>	20
<b>User Feedback/Comments</b>	
<b>Web Address</b>	

## 2. PRTR CLASS ACTIVITIES

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

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

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

## 4. WASTE IMPORTED/ACCEPTED ONTO SITE

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

Do you import/accept waste onto your site for on-site treatment (either recovery or disposal activities) ?	
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This question is only applicable if you are an IPPC or Quarry site

## 4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

| PRTR# : W0082 | Facility Name : | Filename : W0082\_2013.xls | Return

### SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

Data on ambient monitoring of storm/surface water or groundwater

RELEASES TO WATERS				
POLLUTANT				
No. Annex II	Name	M/C/E	Method Used	
			Method Code	Designation or Description

\* 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				
No. Annex II	Name	M/C/E	Method Used	
			Method Code	Designation or Description

\* 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				
Pollutant No.	Name	M/C/E	Method Used	
			Method Code	Designation or Description

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



; conducted as part of your licence requirements, should NOT be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

**Please enter all quantities in this section in KGs**

QUANTITY			
Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0	0.0	0.0

**Please enter all quantities in this section in KGs**

QUANTITY			
Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0	0.0	0.0

**Please enter all quantities in this section in KGs**

QUANTITY			
Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
0.0	0.0	0.0	0.0

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : W0082 | Facility Name : | Filename : W0082\_2013.xls | Return Year : 2013 |

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**SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS**

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**

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)**

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:	0				
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

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR# : W0082 | Facility Name : | Filename : W0082\_2013.xls | Return Year : 2013 |

03/04/2014 13:58

**SECTION A : PRTR POLLUTANTS**

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
No. Annex II	Name	M/C/E	Method 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					Please enter all quantities in this section in KGs			
POLLUTANT		METHOD			QUANTITY			
Pollutant No.	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

#### 4.4 RELEASES TO LAND

[Link to previous years emissions data](#)

| PRTR# : W0082 | Facility Name : | File name :

#### SECTION A : PRTR POLLUTANTS

RELEASES TO LAND			
POLLUTANT		METHOD	
No. Annex II	Name	M/C/E	Method Code

\* 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	
Pollutant No.	Name	M/C/E	Method Code

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

Please enter all quantities in this section in KGs			
Method Used	QUANTITY		
	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
Designation or Description	0.0	0.0	0.0

Please enter all quantities in this section in KGs			
Method Used	QUANTITY		
	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year
Designation or Description	0.0	0.0	0.0

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR#: W0082 | Facility Name: | Filename: W0082\_2013.xls | Return Year: 2013 |

03/04/2014 14:00

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 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	15 01 01	No	945.0	paper and cardboard packaging	R13	M	Weighed	Abroad	Cellmark USA,TFS Broker IRE/G180/11	.....,Ireland		
Within the Country	15 01 01	No	240.0	paper and cardboard packaging	R13	M	Weighed	Offsite in Ireland	Peute Recycling,TFS Broker IRE/G006/11	.....,Ireland		
To Other Countries	15 01 01	No	278.0	paper and cardboard packaging	R13	M	Weighed	Abroad	Materia Environment LTD,.	.....,Ireland		
Within the Country	15 01 01	No	25.0	paper and cardboard packaging	R13	M	Weighed	Offsite in Ireland	Panda Waste,.	.....,Ireland		
To Other Countries	15 01 01	No	377.0	paper and cardboard packaging	R13	M	Weighed	Abroad	MLM Ltd,Broker IRE / G 022/11	.....,Ireland		
To Other Countries	15 01 01	No	1787.0	paper and cardboard packaging	R13	M	Weighed	Abroad	Binman cardboard to panda,.	.....,Ireland		
To Other Countries	15 01 01	No	1069.0	paper and cardboard packaging	R13	M	Weighed	Abroad	Marl Lyndon Ltd,IRE/G021/12	.....,UNITED KINGDOM		
Within the Country	15 01 02	No	190.0	plastic packaging	R13	M	Weighed	Offsite in Ireland	Leinster Environmental,WFP-LH-09-0004-01	Dundalk,....,Louth,Ireland		
To Other Countries	15 01 02	No	22.0	plastic packaging mixed construction and demolition wastes other than those mentioned in 17 09 01, 17	R13	M	Weighed	Abroad	J&A Young (Leicester),TFS Broker IRE/G058/11	.....,UNITED KINGDOM		
Within the Country	17 09 04	No	49.0	09 02 and 17 09 03	R13	M	Weighed	Offsite in Ireland	Mallow Contracts,CK(No)277/5	....,Mourneabbey,Co Cork,Ireland		
Within the Country	20 01 01	No	51.0	paper and cardboard	R13	M	Weighed	Offsite in Ireland	Mark Lyndon Ltd,IRE/G021/12	.....,UNITED KINGDOM		
Within the Country	20 01 01	No	48.0	paper and cardboard	R13	M	Weighed	Offsite in Ireland	MLM Ltd,Broker IRE / G 022/11	.....,Ireland		
To Other Countries	20 01 01	No	100.0	paper and cardboard	R13	M	Weighed	Abroad	MRF rosemount,.	.....,Ireland		
Within the Country	20 01 02	No	20.0	glass	R13	M	Weighed	Offsite in Ireland	Mallow Contracts,CK(No)277/5	....,Mourneabbey,Co Cork,Ireland		
Within the Country	20 01 02	No	155.0	glass	R13	M	Weighed	Offsite in Ireland	Clonmel Waste Disposal Ltd,WFP-008-02	Lawlesstown,Clonmel...Co Tipperary,Ireland		
Within the Country	20 01 08	No	442.0	biodegradable kitchen and canteen waste	R13	M	Weighed	Offsite in Ireland	Ballybeg Composting Facility,Littleton,...Co Tipperary,Ireland	.....,Ireland		
Within the Country	20 01 38	No	836.0	wood other than that mentioned in 20 01 37	R13	M	Weighed	Offsite in Ireland	Clonmel Waste Disposal Ltd,WFP-008-02	Lawlesstown,Clonmel...Co Tipperary,Ireland		
Within the Country	20 01 40	No	341.0	metals	R4	M	Weighed	Offsite in Ireland	Clearcircle metals (Limerick),.	.....,Ireland		
Within the Country	20 01 40	No	95.0	metals	R4	M	Weighed	Offsite in Ireland	Davis Recycling,WFP-DC-09-0013-01	Ringsend,....,Dublin 4,Ireland		
To Other Countries	20 03 01	No	5719.0	mixed municipal waste	R13	M	Weighed	Abroad	indaver AB Fortum,.	.....,Ireland		
To Other Countries	20 03 01	No	4774.0	mixed municipal waste	R13	M	Weighed	Abroad	Indaver Avi Abfallverwertung,.	.....,ireland		
Within the Country	20 03 01	No	10233.0	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Indaver (AVR)	.....,ireland		
Within the Country	20 03 01	No	641.0	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	AFVALVERWERKING),.	.....,Ireland		
Within the Country	20 03 01	No	1154.0	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Drehid Landfill,W0201-03	Carbury,....,Kildare,Ireland		
Within the Country	20 03 01	No	81.0	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Gortnaduma Landfill,W0017-03	.....,Co Limerick,Ireland		
Within the Country	20 03 01	No	11705.0	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Greenstar Knockharley,W0146-01	Knockharley,....,Meath,Ireland		
Within the Country	20 03 01	No	141.0	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Dillons Waste,WFP-KY-10-001	The Kerries,Traless,Co Kerry,....,Ireland		
Within the Country	20 03 01	No	11787.0	mixed municipal waste	R1	M	Weighed	Abroad	North Kerry Landfill,W0001-04	.....,Ireland		
To Other Countries	20 03 01	No	12538.0	mixed municipal waste	R1	M	Weighed	Abroad	AZN Meorduk,North Barabant 855078	Tralee,....,Co Kerry,....,ireland Moerdjk,....,Moerdjk,....,Netherlands		
To Other Countries	20 03 01	No	12538.0	mixed municipal waste	R1	M	Weighed	Abroad	EON (BKB),Groningen Nr 2007 13.472/24 MV	Metal Park 25,.,Farsum,Delfzijl,Netherlands		

To Other Countries	20 03 01	No	7039.0 mixed municipal waste	R1	M	Weighed	Abroad	EON.M1939-07 Greenstar Millennium,w0183-01	Ostra Promenaden,..Norrkoping,60 1 71,Sweden
Within the Country	20 03 07	No	251.0 bulky waste	D15	M	Weighed	Offsite in Ireland	Ballycoolin,..,Dublin,Ireland	
Within the Country	20 03 07	No	4420.0 bulky waste	D5	M	Weighed	Offsite in Ireland	Gortnaduma Landfill,W0017-03 ,..,Co Limerick,Ireland	
Within the Country	20 03 07	No	709.0 bulky waste	D5	M	Weighed	Offsite in Ireland	MRF Bray,.. ,..,Ireland	
Within the Country	15 01 06	No	19.0 mixed packaging	R13	M	Weighed	Offsite in Ireland	Gortnaduma Landfill,W0017-03 ,..,Co Limerick,Ireland	
Within the Country	15 01 06	No	89.0 mixed packaging	R13	M	Weighed	Offsite in Ireland	Kilarny Waste Disposal,W0217-01 Kilarny ,,..Co Kerry,Ireland	
Within the Country	15 01 06	No	1436.0 mixed packaging mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 07	R13	M	Weighed	Offsite in Ireland	Dillon Waste,WFP-KY-10-001 The kerries,Tralee,Kerry,..,Ireland	
Within the Country	17 01 07	No	3746.0 01 06 mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 07	R13	M	Weighed	Offsite in Ireland	Mallow Contracts,CK(No)277/5 ,..,Mourneabbey,Co Cork,Ireland	
Within the Country	17 01 07	No	335.0 01 06 soil and stones other than those mentioned in 17 05 03	R13	M	Weighed	Offsite in Ireland	O' Gradys,.. ,..,Ireland	
Within the Country	17 05 04	No	165.0 in 17 05 03 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 12	R13	M	Weighed	Offsite in Ireland	O' Gradys,.. ,..,Ireland	
Within the Country	19 12 12	No	842.0 11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 12	R13	M	Weighed	Offsite in Ireland	Greenstar Millennium,w0183-01 Ballycoolin,..,Dublin,Ireland	
Within the Country	19 12 12	No	129.0 11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 12	R13	M	Weighed	Offsite in Ireland	MRF Bray,.. ,..,Ireland	
Within the Country	19 12 12	No	76.0 11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 12	D5	M	Weighed	Offsite in Ireland	Greenstar Knockharley,W0146-01 Knockharley,..,Meath,Ireland	
Within the Country	19 12 12	No	43.0 11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 12	D5	M	Weighed	Offsite in Ireland	Gortnaduma Landfill,W0017-03 ,..,Co Limerick,Ireland	
Within the Country	19 12 12	No	439.0 11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 12	D5	M	Weighed	Offsite in Ireland	North Kerry Landfill,W0001-04 Tralee,..Co Kerry,..,Ireland	
Within the Country	19 12 12	No	48.0 11	D5	M	Weighed	Offsite in Ireland	Drehid Landfill,W0201-03 Carbury,..,Kildare,Ireland	
Within the Country	20 01 01	No	326.0 paper and cardboard	R13	M	Weighed	Offsite in Ireland	Panda Waste,.. ,..,Ireland	
Within the Country	20 01 08	No	1588.0 biodegradable kitchen and canteen waste discarded electrical and electronic equipment other than those mentioned in 20 01 21, 20 01 23 and 20 01 35	R13	M	Weighed	Offsite in Ireland	Clonmel Waste Disposal Ltd,W0017-02 Lawlesstown,Clonmel,..Co Tipperary,Ireland	
Within the Country	20 01 36	No	1.0 01 21, 20 01 23 and 20 01 35	R13	M	Weighed	Offsite in Ireland	KMK Metals,.. ,..,Ireland	
Within the Country	20 01 40	No	312.0 metals	R13	M	Weighed	Offsite in Ireland	United Metals,.. ,..,Ireland	
Within the Country	20 03 03	No	489.0 street-cleaning residues	D5	M	Weighed	Offsite in Ireland	Drehid Landfill,W0201-03 Carbury,..,Kildare,Ireland	

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

[Link to previous years waste data](#)

[Link to previous years waste summary data & percentage change](#)

[Link to Waste Guidance](#)



# **APPENDIX 2**

## Procedures List



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

**Integrated Procedures - IP**

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

**Safety Procedures - SP**

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



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**Environmental Procedures - EP**

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

<b>Doc. No.:</b> Control	<b>Revision No.:</b> 02	<b>Issue Date:</b> 1 <sup>st</sup> February 2011
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**Amendment History**

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

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Date	Amendment No.	Procedure No:	Revision No:	Comment	Authorised By
30/06/13	25	IP-16	1	Inclusion of new procedure	M.D.
09/09/13	26	IP-03	2	Use of Scannell Software Solutions (Enviromanager) instead of IF-03A	M.D & O.C
09/09/13	27	IP-04	3	Use of Scannell Software Solutions (Enviromanager) instead of IF-03A	M.D & O.C
09/09/13	28	IP-05	2	Use of Scannell Software Solutions (Enviromanager) instead of IF-03A	M.D & O.C
16/10/13	29	EP-03	3	Introduction of EPA ALDER Portal	K.B
23/09/13	30	SP-12	1	Introduction of SP-12O.C	



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