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ANNUAL ENVIRONMENTAL REPORT

STARRUS ECO HOLDINGS LTD

MATERIALS RECOVERY FACILITY

SIX CROSS ROADS BUSINESS PARK

WATERFORD

LICENCE NO. W0177-03

JANUARY 2017 – DECEMBER 2017

Prepared For: -

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Project	Annual En	Annual Environmental Report 2017									
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1. INTRODUCTION

This is the 2017 Annual Environmental Report (AER) for the Starrus Eco Holdings Ltd., (SEHL) Materials Recovery Facility (MRF) at Six Cross Roads Business Park, Waterford (W0177-03) and covers the reporting period January 2017 to December 2017.

The content is based on Schedule F of the Waste Licence and the report format follows guidelines set in the "Guidance Note for Annual Environmental Report" issued by the Environmental Protection Agency (Agency)¹. Cognisance was also taken of the Agency AER Draft Guidance Document and AER Information Templates issued by the Agency in January 2012².

¹ EPA (Environmental Protection Agency) 1999 Waste Licensing – Draft Guidance on Environmental Management Systems and Reporting to the Agency

² EPA (Environmental Protection Agency) 2012 Draft AER Guidance Document

2. SITE DESCRIPTION

2.1 Site Location and Layout

The site is located at Six Cross Roads Business Park, Carriganard, approximately 3.5 km southwest of Waterford City Centre. The area to the west of the facility is mainly farmland. The nearest residential area is the Ballybeg housing estate, which is approximately 500 m to the north. The facility encompasses approximately 9,300 m^2 and is accessed through the Six Cross Roads Business Park. The western site boundary is a cul-de-sac, the southern and eastern boundaries are formed by the Six Cross Roads Business Park and the northern boundary by the closed Waterford City Compost Facility.

There are two waste processing buildings. The Main Building houses the offices and Commercial and Industrial waste (C&I) recycling activities and bulk waste transfer. The Lean-To, which is to the west of the Main Building, is used for recovered timber, green waste and bulky waste processing and additional bale storage. The open yard areas are paved and are used for external waste storage bays (C&D, glass, and metals), skip storage, truck parking and a vehicle washing area. A civic amenity area is established in the southwest of the facility.

2.2 Waste Management Activities

The facility is licensed to accept and process 80,000 tonnes of waste per annum, comprising household waste, construction and demolition waste (C&D) and commercial and industrial waste (C&I).

2.2.1 Waste Types & Processes

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

- Household (25,000 tonnes)
- Commercial & Industrial (50,000 tonnes)
- Construction & Demolition (5,000 tonnes)

No hazardous wastes 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 are: -

- Segregation of recyclable materials (paper, cardboards, plastic, wood, metals, glass);
- Recycling of hard plastics
- Baling of recyclable materials;
- 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;

Household Waste

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

Commercial and Industrial Waste

Both mixed and segregated commercial waste is collected from commercial sources. Commercial waste containing recyclable material (paper, cardboard, glass, metal, green waste and wood) is delivered both by permitted third party hauliers and by SEHL vehicles. Plastic, card and paper are baled and stored prior to transfer to a suitable permitted/licensed off-site recycling outlet. Biodegradable wastes suitable for composting are sent to an offsite composting facility. The remaining non-recyclable material is bulked and sent to appropriately licensed landfills. Hard plastics (PVC and Polypropylene) are shredded to form raw materials for plastic goods manufacturers.

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 and then processed. The majority of the incoming C&D material is recovered and sent off-site either for re-use, or recycling. The non-recyclable materials are transferred to a licensed landfill.

2.2.2 Plant List

A list of the plant in use at the facility is in Table 2.1. The plant provides 100% duty and 50% standby for waste processing.

No.	Plant	Model	Operational Capacity tpd	Standby Capacity tpd
1	Loading Shovel	Volvo L90F	200	120
1	Excavating Grab	Volvo	150	100
2	Forklift	Jungheinrich	2.5 t	
1	Timber shredder	Doppstadt AK430	20t/hour	
1	Road Sweeper	Iveco 180E23	500 lts	
1	Recycling Bailer	PAAL PGS15050	15/20T/hour	
1	Plastic granulator	Enginplast BA800	600kgs/hour	
1	Confidential shredder	Linder	15KW	
1	Loading Shovel	Liebherr		120

 Table 2.1
 Plant List – 2017

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 results are submitted to the Agency at quarterly intervals and this section presents an overview of the monitoring completed in the reporting period..

3.1 Surface Water Monitoring

The facility's surface water drainage system collects run-off from paved areas and roof rainwater and discharges at separate locations to a culverted stream serving the Business Park.

The original agreed monitoring locations were SW-1, SW-2, SW-3 and SW-4. In June 2012 the Agency approved the replacement of SW-1 and 2 with SW-5, which is the point at which the combined discharge point to the stream for the storm sewers from the east and south of the site and the sewers that take run-off from the Main Recycling Building and Offices.

SW-3 is downstream of an oil interceptor on the drain that takes runoff from the western yard, and is a separate discharge point. SW-4 is at the discharge point to the stream for run-off roof of the Lean To in the north western section of the site. The locations are shown on Figure 3.1.

The monitoring results are in Tables 3.1 to 3.3. Due to dry conditions in some months no surface water samples were obtained. The results include the proposed warning and action levels developed by SEHL in Q1 2010. The warning level for ammonia was exceeded at SW-5 on the 25th June. The warning level for electrical conductivity was exceeded at SW-3 on the 20th September and 19th October. The action levels were not exceeded.

Table 3.1Surface Water Monitoring Results – SW-3

Parameter	Units	6 th Feb	6 th Mar	15 th May	28 th Jun	19 th Jul	5 th Sept	20 th Sept	19 th Oct	22 nd Nov	Warning Levels	Action Level
Ammonia	mg/l	0.08	0.09	0.09	0.28	0.85	0.04	< 0.03	1.37	0.61	2.0	4.4
Electrical Conductivity	mS/cm	0.089	0.086	0.205	0.069	0.124	0.065	0.578	0.640	0.353	0.466	0.774

Table 3.2Surface Water Monitoring Results SW-4

Parameter	Units	6 th Feb	6 th Mar	15 th May	28 th Jun	19 th Jul	5 th Sept	20 th Sept	19 th Oct	22 nd Nov	Warning Levels	Action Level
Ammonia	mg/l	0.08	0.05	0.05	0.68	0.71	0.26	< 0.03	0.23	0.15	2.0	4.4
Electrical Conductivity	mS/cm	0.039	0.026	0.157	0.019	0.026	0.008	0.050	0.185	0.084	0.466	0.774

Table 3.3Surface Water Monitoring Results SW-5

Parameter	Units	6 th Feb	6 th Mar	15 th May	28 th Jun	19 th Jul	5 th Sept	20 th Sept	19 th Oct	22 nd Nov	Warning Levels	Action Level
Ammonia	mg/l	0.57	0.55	0.36	2.58	0.83	1.55	< 0.03	1.51	0.04	2.0	4.4
Electrical Conductivity	mS/cm	0.077	0.170	0.181	0.086	0.113	0.034	0.050	0.241	0.391	0.466	0.774

3.2 Foul water Monitoring

The wastewater discharge (vehicle cleaning and run off from hard-standing at the entrance to the main recycling building) passes through a petrol/oil interceptor before discharging to the Six Cross Roads Business Park sewer before ultimately connecting to the municipal sewer. Flow is measured using a continuous flow meter.

The discharge is rainfall dependent and due to dry conditions in some months no waste water samples were obtained.

The wastewater sampling is carried out at location FW-1, as shown on Figure 3.1. FW-1 is downstream of the interceptor and the continuous flow meter. The monitoring results are presented in Table 3.4, which also includes the emission limit values (ELV) set in the Licence.

The ELVs for BOD, COD and TSS were exceeded in September, while the ELV for TSS was also exceeded in November.

Parameter	Units	Mar	May	Jul	Sept	Oct	Nov	Emission Limit	Emission Limit (Grab Sample)*
pH	pH Units	6.59	6.95	6.70	6.47	7.01	8.69	6 – 9	6-9
BOD	mg/l	110	279	305	1,022	6	296	400	480
COD	mg/l	169	892	523	1,700	27	593	1,100	1,320
TSS	mg/l	112	828	13	832	83	2,850	300	360
Oils, Fats & Greases	mg/l	1.20	5.7	1.2	< 0.01	< 0.01	2.490	10	12
Surfactants (MBAS)	mg/l	<0.2	0.6	0.9	1.8	3.2	1.3	30	36

Table 3.4	Foul water Monitoring Results 2017
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* Condition 4.1.2 (i) For parameters other than pH and temperature, no grab sample value shall exceed 1.2 times the emission limit value.

3.3 Groundwater Monitoring

Groundwater monitoring is not specified in the licence, however it is carried out annually at two monitoring wells (BH-1 and BH-3) as agreed with the Agency. BH-1 is off-site and upgradient in the adjoining closed Waterford City Council Composting facility (W0234-01) and BH-3 is on-site as shown on Figure 3.1.

There are no emission limits or trigger levels set in the licence and so the results are compared to the Interim Guideline Values (IGV) on groundwater quality published by the Agency and the Groundwater Regulations Threshold Value (GTV), which were introduced in 2010 (S.I. 9 of 2010).

The IGV represent typical background or unpolluted conditions; however levels higher than the IGV may occur naturally depending on the local geological and hydrogeological conditions. While the GTV 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 non-potable groundwater supplies. Because GTVs have not been established for all of the parameters monitored, the relevant IGV was used for comparative purposes.

The results are shown on Table 3.5 and indicate that there is no evidence that site activities are impacting on groundwater quality. The IGVs or GTVs were not exceeded at either location in August 2016. The monitoring carried out showed that the groundwater quality is good.

High levels of suspended solids are present in each well. Based on the borehole logs, the well depths range from 22 to 27m bgl (meters below ground level). BH-1 is exclusively in the subsoils, while BH-3 straddles the subsoils and the bedrock, which is a siltstone. The subsoils in BH-1 are described as very fine grained alluvial deposits, while in BH-3 they are described as sand with small elements of clay. There is a gravel pack around the well pipe but no filter sock on the slotted section. Given the absence of a filter sock and the nature of the subsoils, it is not unexpected that suspended solids present in the groundwater are being drawn into the well pipe during purging. They are naturally occurring, are not indicative of contamination and are of no environmental significance.

Table 5.5 Groundwater Monitoring Results – November 2017									
Parameter	Units	BH-1	BH-3	GTV	IGV				
BOD	mg/l	<1	<1	-	-				
Dissolved Oxygen	mg/l	7	8	-	NAC				
Oils, Fats & Greases	mg/l	< 0.01	< 0.01	-	-				
Total Phosphorus	mg/l	690	797	-	-				
Ammoniacal Nitrogen	mg/l	0.04	< 0.03	0.065 - 0.175	-				
Conductivity	mS/cm	0.601	0.506	1.875	-				
DRO	mg/l	< 0.01	< 0.01	-	0.01				
Aliphatic Hydrocarbons	mg/l	< 0.01	< 0.01	-	-				
Undecane	mg/l	< 0.01	< 0.01	-	-				
Total Suspended Solids	mg/l	3654	4436	-	-				

Table 3.5Groundwater Monitoring Results – November 2017

3.4 Noise Monitoring

The annual noise survey was conducted in August. The monitoring locations include three boundary locations (N1 - N3) and two off site noise sensitive locations (NS1 and NS2). The survey was conducted when the site was fully operational and confirmed that noise emissions fully complied with the licence and that the facility is not impacting negatively on the nearest sensitive receptors. A summary of the noise results is shown on Table 3.6.

Station	Date	Time	Wind vector	L _{Aeq 30 min} dB	LAF10 30 min dB	LAF90 30 min dB	Specific L _{Aeq 30 min} dB					
	03.07.17	1030- 1100	0	66	69	56	66					
N1	Facility: Local plant and truck activity in yard and building intermittently dominant.											
141	During lulls, extraction system in E building continuously clearly audible.											
	Extraneous	s: No noise au	idible apart f	rom crows.								
	Specific LAeq T determination: Leq representative.											
	03.07.17	0955- 1025	0	65	67	53	≤65					
N2	 Facility: Intermittent truck, car and van movements through entrance area dominant when present, occasionally idling for extended periods on weighbridge. Plant operations within site audible at low level during lulls in traffic activity. Extraneous: Activity at adjacent premises (garden tool engines and power washing occasionally dominant. During lulls in louder sources, R710 traffic continuously audible in background. 											
	Specific LA	1106-	ation. Leq n		power tool er	ignies onsite.	Thus <u>Steq</u> .					
	03.07.17	1136	0	53	55	48	<48					
N3	 Facility: All site activity apart from nearest loader movements masked by traffic. Extraneous: R710 traffic continuously dominant. No other noise audible apart from bird song/calls. Specific LAeg T determination: L90 dominated by traffic, thus <l90.< li=""> </l90.<>											
	03.07.17	1223- 1253	Х	59	62	48	<46					
NS1	 Facility: Inaudible. Extraneous: Intermittent passing traffic dominant when present. Distant traffic continuously audible at low level, including R710 traffic. Bird song/calls. Regular dog barking clearly audible across nearest residential estate. Specific LAeg T determination: Inaudible, thus <l95.< li=""> </l95.<>											
	03.07.17	1146- 1216	+	68	71	48	<46					
	Facility: In	audible.										
NS2	distant traff pedestrian v	ic audible, in oices. Truck	addition to g passing close	grass mower i	sly present an n distance. B 212 intrusive 95.	ird song/calls	-					

Specific L_{Aeq} : Level considered attributable to source under consideration, determined using real time assessment, field

notes, time history profiles, statistical analysis, frequency spectra, spectral statistics and near field correction if applicable. **Audibility scale**: Inaudible; faintly audible; slightly audible; audible at low level; quite audible; clearly audible; dominant; intrusive; excessive.

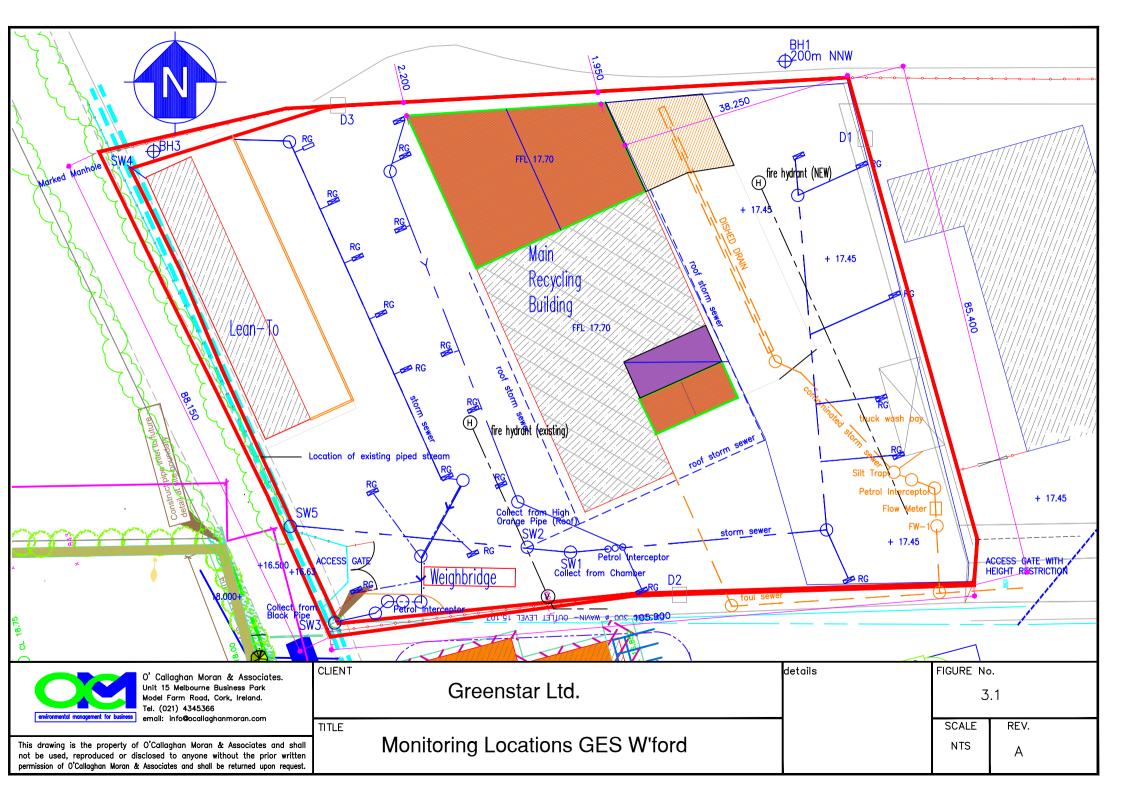
3.5 Dust Monitoring

Dust monitoring was carried out on three occasions at three on-site locations (D1, D2 and D3) in June, September and October. The results of the monitoring are included on Table 3.7.

The dust emission limit $(350 \text{ mg/m}^2/\text{day})$ was exceeded at D3 in two monitoring events, June and October. On both occasions the laboratory noted the presence of a large amount of brown particulates in the dust gauge. The likely source of this dust was gravel and rubble which was being loaded onto trucks in the area adjacent to D3 during the monitoring periods. No complaints relating to dust were received from neighbouring premises during the reporting period.

Dust Emission (mg/m²/day)	June	September	October	Emission Limit
Sample Location	(30 days)	(30 days)	(30 days)	(mg/m²/day)
D1	233	184	277	350
D2	248	291	258	350
D3	501	311	609	350

Table 3.7Dust Monitoring Results 2017



4. SITE DEVELOPMENT WORKS

4.1 Engineering Works

No engineering works were carried out at the installation in 2017.

In 2018, SEHL propose to upgrade the civic amenity centre at the installation and to provide a new purpose-built weighbridge office.

4.2 Summary of Resource & Energy Consumption

Table 4.1 presents an estimate of the resources used on-site during the reporting period and in 2016.

Resources	Quantities 2016	Quantities 2017
Diesel (green)	50,754 litres	27,863 litres
Electricity	318,200 kWh	327,240 kWh
Hydraulic Oil	1,950 litres	1,774 litres
AdBlu Diesel Additive	2,430 litres	3,860 litres
Odour Neutraliser	0 litres	0 litres

Table 4.1Estimate of Resources Used On-Site in 2016 & 2017

4.3 Bund Integrity Testing

Condition 3.11.5 of the licence requires that tank and bund testing be carried out at least once every three years. Integrity testing was carried out in 2017 and the bunds, interceptors and drainage lines were passed fit for purpose. The reports are retained at the facility for Agency inspection.

5. WASTE RECEIVED AND CONSIGNED FROM THE FACILITY

Table 5.1 shows the total quantities of waste received and consigned from the facility in 2017. A breakdown of the waste types is provided in accordance with the European Waste Catalogue and Hazardous Waste list. A more detailed description of the wastes accepted and consigned is provided in the PRTR submission in Appendix 1. For comparative purposes the amounts of waste received and consigned from 2009 to 2017 are presented in Table 5.2.

The total quantity of waste received was 51,853 tonnes. The total waste consigned was 51,849 tonnes. The records show that more waste was accepted at the site than consigned. This is due to material being stored in the facility at the end of 2017 prior to consignment in Q1 2018. All the wastes consigned went to authorised recovery and disposal facilities approved by the Agency.

EWC	Description	Waste In	Waste Out
08 03 99	Cartridges	11.492	
12 12 02	Ferrous Metal Dust & Particles		14.86
15 01 01	Paper and cardboard packaging	6,567.282	5,023.675
15 01 02	Plastic packaging	2,971.845	488.275
15 01 03	Wooden packaging	40.00	33.16
15 01 04	Metallic packaging		13.68
15 01 06	Mixed packaging		707.90
15 01 07	Glass packaging	125.68	88.86
16 06 01*	Lead Battery		2.073
17 05 04	Soil and stones	3.46	
17 08 02	Gypsum-based construction material	2.68	
17 09 04	Mixed C&D wastes	998.2	845.58
19 12 04	Plastic & Rubber	29.06	2,188.945
19 12 07	Shredded timber	1.14	1,256.42
19 12 12	Other wastes (including mixtures of materials) from mechanical treatment of wastes	17.754	9,646.138
20 01 01	Paper & cardboard from municipal sources	1,476.708	2,567.64
20 01 02	Glass from municipal sources	48.66	
20 01 08	Biodegradable kitchen and canteen waste	3,666.565	3,328.24
20 01 11	Textile		1.14
20 01 35	WEEE	1.64	13.14
20 01 38	Wood waste from municipal sources	2,189.052	663.21
20 01 39	Plastic from municipal sources	50.834	19.99
20 01 40	Metals from municipal waste	162.884	176.31
20 02 01	Biodegradable Waste	59.42	197.12
20 03 01	Mixed municipal waste	22,251.639	22,772.02
20 03 03	Street-cleaning residues	1,807.06	1,658.80
20 03 07	Bulky Waste	9,369.707	141.469
	Total Received	51,852.762	
	Total Consigned		51,848.645
	Recovery		51,229.945
	Disposal		618.70
	Recovery Rate		98.81%

Table 5.1Waste Received & Consigned 2017

Year	Total Received	Total Consigned	Total Recovered	Total Disposed	Recovery Rate
2016	58,289	28,271	55,878	2.393	96%
2015	46,718	46,668	45,081	1,587	96%
2014	38,532	38,741	36,013	2,727	93%
2013	55,232	54,523	43,092	11,431	79%
2012	54,627	54,532	43,101	11,431	79%
2011	57,592	58,231	44,517	13,075	76%
2010	49,011	48,120	25,706	22,414	53%
2009	48,560	47,574	20,892	26,682	44%

Table 5.2Waste Received & Consigned

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

The ELVs for BOD, COD and TSS were exceeded in September, while the ELV for TSS was also exceeded in November. There was two breaches of the dust emission limit at D3 in July and October. The Agency and County Council were notified where necessary of each incident.

6.2 Register of Complaints

SEHL maintains a register of complaints received at the facility offices. No complaints were received during the reporting period.

7. ENVIRONMENTAL DEVELOPMENT & CONTROL

7.1 Environmental Management Programme Report

SEHL 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. SEHL has prepared and effectively implement 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 and was subject of a successful re-certification audit in September 2017.

The schedule of Objectives and Targets, including their status for 2017 (Table 7.1), as well as the proposed Objectives and Targets for 2018 (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: Responsibility: Experience:	Tom Walsh Operations Manager Over 10 years waste management experience; has completed the FÁS waste management course.
Name: Responsibility: Experience:	Ivan Cummins Yard Supervisor Over 30 years waste management experience.
Name: Responsibility: Experience:	Robertas Zemaitaitis General Yard Operative Over 5 years waste management experience; has completed the Patel Tonra (CIWM approved) Waste Management Course.

Name:	Stephanie Pietercelie	
Responsibility:	Operations & Environmental	
Experience:	Over 5 years waste management experience; has completed the	
	Patel Tonra (CIWM approved) Waste Management Course.	

7.1.2 Staff Training

The following staff training was carried out during the year manual handling, reversing, bin lift training, 3 points contact training, Moffet training, forklift training, health and safety induction training, loading shovel training, steps training, fire warden training and first aid training. Details on staff training are retained on the company's electronic Training Management System (TMS).

7.2 Environmental Management Programme

7.2.1 Schedule of Objectives 2017

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

7.2.2 Schedule of Objectives 2018

The schedule of targets and objectives for 2018 are presented in Table 7.2.

7.3 Communications Programme

SEHL is committed to setting the standard in waste management and ensuring environmental compliance in all operations. In addition, SEHL'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 SEHL 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.

Table 7.1Objectives and Targets for 2017

No	2016 Objective	Target	Timescale	Responsibility	Status
1	Odour management	Ensure odour management plans are followed and potential new sources of odour are identified	Q1 - Q4	Site management	Ongoing
2	Fire prevention	Implement recs from Fire Risk Assessments Update ERP & APP Maintain fire detection equipment	Q1 - Q4	Site management/ EHS team	Ongoing Ongoing Ongoing
3	Waste storage	Review waste storage practices on each site to ensure that they are in line with licence conditions, fire prevention and insurance recommendations	Q1 - Q4	Site management/ EHS team	Ongoing
4	Waste acceptance, classification & records	EWC training for all weighbridge ops. Centralisation of all licences & permits inc NWCPs for hauliers.	Q1 - Q4	EHS team	Completed
5	CRAMP, ELRA & Financial Provision	CRAMP, ELRA & Financial Provision to be reviewed	Q2	EHS team	Completed
6	Lighting in MRF buildings	Clean & upgrade where required all light fittings in MRF buildings	Q3	Site management	Completed
7	NWCP exemptions	Implement NWCP exemption declarations	Q1 - Q4	Site management	Completed
8	Pipeline integrity Testing	Complete pipeline integrity testing	Q1/Q2	Site management	Completed

Table 7.2Schedule of Objective and Targets 2018

No	2018 Objective	Target	Timescale	Responsibility
1	Nuisance management	Ensure odour/noise/dust management plans are followed and potential new sources are identified	Q1 - Q4	Site management
2	Fire prevention	Implement recs from Fire Risk Assessments Update ERP & APP where applicable Maintain fire detection equipment	Q1 - Q4	Site management/EHS team
3	Waste storage	Review waste storage practices on each site to ensure that they are in line with licence conditions, fire prevention and insurance recommendations	Q1 - Q4	Site management/EHS team
4	ISO 14001 transition	Transition ISO 14001 to the 2015 standard	Q2	EHS team
5	Paperless project	Implement plans for a paperless office	Q3-Q4	All staff
6	Resource tracking	Sites to track energy usage and other resources in order to conserve wherever possible	Q1 - Q4	Site management/EHS team
7	Hardstand & site infrastructure	Review hardstand and formulate repair plan as required. Record using EF11.	Q1 - Q4	Site management/EHS team
8	Civic Amenity Revamp	Make changes to existing civic amenity site: Make bigger, Upgrade equipment & New signage	Q1 - Q2	Site management
9	Truck Wash area	Make changes/improve truck wash area	Q2 - Q3	Site management

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. A revised CRAMP and ELRA was requested by Agency and were submitted in April 2017.

The facility has an Integrated Management System (IMS) in place and the site has achieved external accreditation for its implementation of ISO 14001 and OHSAS 18001, environmental and health and safety management systems. Effective implementation of these systems is the most appropriate way to ensure that mitigation measures achieve the required risk reduction on site.

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

7.5 Nuisance Controls

SEHL has contracted a vermin control company to carry out nuisance control at the facility. Rentokil provide pest control at the facility and also provide for the treatment of insects at the facility if necessary. Daily litter picks and road-sweeping are carried out by yard operators during the course of their daily duties. An odour control system is in place at the facility which can be operated automatically or manually by the Environmental Officer and Operations Supervisor as needed. A site inspection is carried out daily and recorded on the facilities inspection log which is controlled as part of the current Integrated Management System.

7.6 Wastewater Volumes

The volume of wastewater generated during the reporting period was estimated to be 669.110 m³

8. OTHER REPORTS

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 return submitted to the Agency via the web-based data reporting system is in Appendix 1.

APPENDIX 1

European Pollutant Release and Transfer Register



| PRTR# : W0177 | Facility Name : Starrus Eco Holdings Limited (Waterford City) | Filename : W0177_2017.xls | Return Year : 2017 |

Guidance to completing the PRTR workbook

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR 2017

1. FACILITY IDENTIFICATION

	Starrus Eco Holdings Limited
Facility Name	Starrus Eco Holdings Limited (Waterford City)
PRTR Identification Number	W0177
Licence Number	W0177-03
	-

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

	Carrignard
Address 2	Six Cross Roads
Address 3	Business Park
Address 4	Waterford City
	Waterford
Country	
Coordinates of Location	
River Basin District	IESE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	
AER Returns Contact Email Address	sara.smyth@greenstar.ie
AER Returns Contact Position	Environmental Engineer
AER Returns Contact Telephone Number	
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	51
User Feedback/Comments	
Web Address	

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 20	02)
Is it applicable?	
Have you been granted an exemption ?	
If applicable which activity class applies (as per	
Schedule 2 of the regulations) ?	
Is the reduction scheme compliance route being	
used ?	

4. WASTE IMPORTED/ACCEPTED ONTO SITE

Guidance on waste imported/accepted onto site

| PRTR# : W0177 | Facility Name : Starrus Eco Holdings Limited (Waterford City) | Filename : W0177_2017.xls | Return Year : 2017 | Page 1 of 2

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

4.1 RELEASES TO AIR Link to previous years emissions data

| PRTR# : W0177 | Facility Name : Starrus Eco Holdings Limited (Waterford City) | Filename : W0177_2017.xls | Return Year : 2017 |

26/03/2018 19:24

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

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

SECTION B : REMAINING PRTR POLLUTANTS

	RELEASES TO AIR			Please enter all quantities	in this section in KC	às	
PC	DLLUTANT	М	ETHOD			QUANTITY	
			Method Used				
No. Annex II	Name	M/C/E Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
				0.0)	0.0 0.	0.0

* 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 quantitie	s in this section in KC	Gs		
PC	LLUTANT		M	ETHOD			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

Additional Data Requested from Lanc	Ifill operators					
For the purposes of the National Inventory on Greenhol summary data on landfill gas (Methane) flared or utilise methane generated. Operators should only report their T(total) KG/yr for Section A: Sector specific PRTR pollu	d on their facilities to accompany the figures for total Net methane (CH4) emission to the environment under					
Landfill:	Starrus Eco Holdings Limited (Waterford City)				_	
Please enter summary data on the						
quantities of methane flared and / or utilised			Meth	od Used		
				Designation or	Facility Total Capacity m3	
	T (Total) kg/Year	M/C/E	Method Code	Description	per hour	
Total estimated methane generation (as per						
site model)	0.0				N/A	
Methane flared	0.0				0.0	(Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0	(Total Utilising Capacity)
Net methane emission (as reported in Section						
A above)	0.0				N/A	

4	1.2 RELEASES TO WATERS	Link to previous years emissions data	PRTR# : \	W0177 Facility Nar	ne : Starrus Eco Holdings Limited (W	aterford City) Filename : \	V0177_	2017.xls Return Year : 2	2017	26/03/2018 19:24
5	SECTION A : SECTOR SPECIFIC PRTR PC	LLUTANTS	Data on ar	mbient monitoring o	of storm/surface water or groundw	ater, conducted as part c	of your	licence requirements, sh	nould NOT be submitted under	AER / PRTR Reporting as 1
		RELEASES TO WATERS				Please enter all quar	ntities	in this section in K	Gs	
	PC	LLUTANT							QUANTITY	
					Method Used					
	No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1		T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
							0.0	0	.0 0.0	0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

	RELEASES TO WATERS				Please enter all quantitie	s in this section in K	Gs	
PO	LLUTANT						QUANTITY	
				Method Used				
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
					0.	0 0	.0 0.0	0.0

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

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

	RELEASES TO WATERS				Please enter all quantities	s in this section in KG	S	
PO	LLUTANT						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

26/03/2018 19:24

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data | PRTR# : W0177 | Facility Name : Starrus Eco Holdings Limited (Waterford City) | Filename : W0177

SECTION A : PRTR POLLUTANTS

OFFSITE TF	ANSFER OF POLLUTANTS DESTINED FOR WASTE-V	VATER TR	EATMENT OR SEWER		Please enter all quantities	in this section in KG	S	
	POLLUTANT		METHO	OD			QUANTITY	
			Met	thod 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

* 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 T	RANSFER OF POLLUTANTS DESTINED FOR WASTE-W	ATER TR	EATMENT OR SEWE	R	Please enter all quantities	in this section in KG	S		
	POLLUTANT		MET	HOD			QUANTITY		
			Ν	Nethod Used					
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidenta	l) KG/Year	F (Fugitive) KG/Year
					0.	0	0.0	0.0	0.0

4.4 RELEASES TO LAND

Link to previous years emissions data | PRTR# : W0177 | Facility Name : Starrus Eco Holdings Limited (Waterford City) | Filename : W0177_2017.xls | Return Year : 2017 |

26/03/2018 19:25

SECTION A : PRTR POLLUTANTS

	RELEASES TO LAND				Please enter all quantit	ies in this section in KO	Gs	
F	POLLUTANT		ME	THOD			QUANTITY	
				Method Used				
No. Annex II	Name	M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidenta	al) 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 quantitie	es in this section in KG	is
	POLLUTANT			Ν	IETHOD			QUANTITY
					Method Used			
Pollutant No.	Name		M/C/E	Method Code	Designation or Description	Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Ye
						(0.0	0.0

AER Returns Workbook

26/03/2018 19:25

Image: Property Provide Description of Water (Provide) Description of Water (Provide) Mathematical States (Provide) Mathematical States (Provide) Image: Provide) Image: Pro					Please enter a	all quantities on this sheet in Tonnes								0
Interact density Results Construct Transmit Construct Construct <thconstruct< th=""></thconstruct<>					Quantity (Tonnes per				Method Used		Licence/Permit No of Next Destination Facility <u>Non</u> <u>Haz Waste</u> : Name and Licence/Permit No of	Destination Facility Non Haz Waste: Address of	Address of Final Recoverer / Disposer (HAZARDOUS WASTE	i.e. Final Recovery / Disposal Site
With the County View Processment data and garding Pick M With pick Other handle A Data in Hubble County Data in Hubble County To Order Countie 55 0 r0 No 272.3175 paper and candom garding and garding Ro No With pick A	т	ansfer Destination		Hazardous		Description of Waste	Treatment	M/C/E	Method Used					
To Order Countier 55 0 for Ne 272 315 paper and catchood pockaging File M Weighed Advand Monocol Bench Michael Michael Included To Order Countier 160 10 Ne 250 paper and catchood pockaging File M Weighed Advand Michael Bench Michael Michael	v	thin the Country	12 01 02	No	14.86	ferrous metal dust and particles	R4	м	Weighed	Offsite in Ireland		Ballymount		
Coher Counting 150 10 No 2200.00 ppps and cachedure packaging P3 M Weighted Advecad Package Pac	Т	Other Countries	15 01 01	No	2773.115	paper and cardboard packaging	R3	м	Weighed	Abroad	Recycling,W0263-01			
To Other Gunine 150 10 No 250.56 paper an exclusion packaging Fill M Weighed Anead Lafe EC27715	Т	Other Countries	15 01 02	No	15.6	plastic packaging	R3	М	Weighed	Abroad		.,.,,Scotland,United Kingdom		
To Other Counting 150 102 No 72.256 platist parkaging R3 M Winghod Abonad Fills (A1 1711)	Т	Other Countries	15 01 01	No	2250.56	paper and cardboard packaging	R3	М	Weighed	Abroad	Ltd,IRE/G277/15	.,.,,,United Kingdom		
To Ober Counties 15 01 02 No 12.24 plaint packaging Pal M Weighed Abord BV/RECO06110 Dediceth methods and approximation and approximations app	Т	Other Countries	15 01 02	No	73.295	plastic packaging	R3	м	Weighed	Abroad	IRE/AG117/11			
Within the Country 15 0 10 No 21.1 plastic packaging R3 M Weighed Offetiin in leaded Resynall Wd285-01 12teland Within the Country 150 102 No 198.8 plastic packaging R13 M Weighed Offstie in reland Solinotomeralisty M Construction Within the Country 150 102 No 66.54 plastic packaging R13 M Weighed Offstie in reland Construction Construction <td>Т</td> <td>Other Countries</td> <td>15 01 02</td> <td>No</td> <td>112.94</td> <td>plastic packaging</td> <td>R3</td> <td>м</td> <td>Weighed</td> <td>Abroad</td> <td></td> <td>Dordrecht,,Netherlands</td> <td></td> <td></td>	Т	Other Countries	15 01 02	No	112.94	plastic packaging	R3	м	Weighed	Abroad		Dordrecht,,Netherlands		
Within the Country 150 102 No 198.8 platicip packaging P13 M Weighed Offaile in Initial 2080 06 Co.Louth/Initial Within the Country 150 102 No 66.54 plastic packaging P3 M Weighed Offaile in Initial Mathit Encountry The packaging House, Solity/and Lac, Co. Within the Country 150 103 No 18.42 wooden packaging P13 M Weighed Offaile in Initial MP0-09-02 Tepperayinitial Within the Country 150 107 No 707.9 mixed packaging P13 M Weighed Offaile in Initial MP0-09-02 Tepperayinitial Within the Country 150 107 No 72.54 glass packaging P13 M Weighed Offaile in Initial MP0-09-02 Tepperayinitial Within the Country 150 107 No 73.54 glass packaging P13 M Weighed Offaile in Initial MP0-09-02 Tepperay	v	thin the Country	15 01 02	No	21.1	plastic packaging	R3	М	Weighed	Offsite in Ireland	Recycling,W0263-01	12,.,Ireland Clermont Business		
Within the Country 15 01 02 No 66.54 plastic packaging Pi3 M Weighed Offsie in learned Concentry Concentry <t< td=""><td>v</td><td>thin the Country</td><td>15 01 02</td><td>No</td><td>198.8</td><td>plastic packaging</td><td>R13</td><td>М</td><td>Weighed</td><td>Offsite in Ireland</td><td>2008/06</td><td>,Co. Louth,Ireland The Kipper</td><td></td><td></td></t<>	v	thin the Country	15 01 02	No	198.8	plastic packaging	R13	М	Weighed	Offsite in Ireland	2008/06	,Co. Louth,Ireland The Kipper		
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Within the Country 17 9 9 04 No 845.85 9 9 02 and 17 99 03 R13 M Weighed Offsite in Ireland MMP 0252007 Kilkenny, Jreland Within the Country 19 12 04 No 645.18 plastic and rubber R3 M Weighed Offsite in Ireland IFE Broken Ballycoolin,Dublin,Ireland Within the Country 19 12 04 No 183.445 plastic and rubber R3 M Weighed Offsite in Ireland IFE Broken Ballycoolin,Dublin,Ireland To Other Countries 19 12 04 No 590.4 plastic and rubber R13 M Weighed Abroad Recycling,IRE/AG121/15 Scoland,United Kingdom To Other Countries 19 12 04 No 60.14 plastic and rubber R13 M Weighed Abroad Enco Recycling,IRE/AG121/15 Scoland,United Kingdom To Other Countries 19 12 04 No 67.136 plastic and rubber R13 M Weighed Abroad Limited,IRE/G47419 25 2VJ.United Kingdom Within the Country 19 12 04 No 67.136 plastic and rubber R13 M Weighed Offsite in Ireland Concented Plastic ad/Wit	v	thin the Country	15 01 07	No		mixed construction and demolition wastes	R5	м	Weighed	Offsite in Ireland	0007-01	Westmeath,.,.,Ireland		
Within the Country 19 12 04 No 645.18 plastic and rubber R3 M Weighed Offsite in Ireland Greentee / Plastic Lid UFP - Costeroy Weighed	v	thin the Country	17 09 04	No			R13	м	Weighed	Offsite in Ireland	,WMP 023/2007			
Within the Country 19 12 04 No 183.445 plastic and rubber R3 M Weighed Weighed Offsite in Ireland WRC LK-2013-164 WRC LImerick/reland To Other Countries 19 12 04 No 590.4 plastic and rubber R13 M Weighed Abroad Recycling,IRE/AG121/15 Boost Recycling Scotland,United Kingdom 317 Golden Hill To Other Countries 19 12 04 No 60.14 plastic and rubber R13 M Weighed Abroad Limited,IRE(G82/11 Limited,IRE(G82/11) Scotland,United Kingdom 317 Golden Hill To Other Countries 19 12 04 No 38.42 plastic and rubber R13 M Weighed Abroad Limited,IRE(G82/11) Limited,IRE(G82/11) Lane,Leylandtok Within the Country 19 12 04 No 671.36 plastic and rubber R13 M Weighed Offsite in Ireland Conmel Waste Disposal Lit LaneLeylandtok Co-Louth,Ireland Within the Country 19 12 07 No 1256.42 wood other than that mentioned in 19 120 of wastes other than those mentioned in 19 120 of wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 120 R13 M Weighed Offsite in Ireland Nurendale Ltd,W01	v	thin the Country	19 12 04	No	645.18	plastic and rubber	R3	М	Weighed	Offsite in Ireland	IRE/AG117/11			
To Other Countries 19 12 04 No 590.4 plastic and rubber R13 M Weighed Abroad Recycling.(RE/AG121/15 Boost Recycling Sotland.,United Kingdom To Other Countries 19 12 04 No 60.14 plastic and rubber R13 M Weighed Abroad Limited.(RE/G082/11 Limited.(RE/G082/11) United Kingdom To Other Countries 19 12 04 No 38.42 plastic and rubber R13 M Weighed Abroad Limited.(RE/G082/11) United Kingdom Within the Country 19 12 04 No 671.36 plastic and rubber R13 M Weighed Offsie in reland 2008/06 Co. Countries 25 2YJ, United Kingdom Within the Country 19 12 07 No 671.36 plastic and rubber R13 M Weighed Offsie in reland WP-008-02 Tipperary,reland Within the Country 19 12 07 No 1256.42 wood other than that mentioned in 19 12 00 other wastes other than those mentioned 19 12 K Weighed Offsie in Ireland WP-008-02 Tipperary,reland Within the Country 19 12 12 No 20.92 11 R13 M Weighed Of	v	thin the Country	19 12 04	No	183.445	plastic and rubber	R3	М	Weighed	Offsite in Ireland	LK-2013-164			
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To Other Countries 19 12 04 No 38.42 plastic and rubber R13 M Weighed Abroad Limited,IRE/G474/19 25 22/, United Kingdom Clerronm Businesso Within the Country 19 12 04 No 671.36 plastic and rubber R13 M Weighed Offsite in Ireland 2008/06 Country, Country, Country, Ireland Within the Country 19 12 07 No 1256.42 wood other than that mentioned in 1912 06 R13 M Weighed Offsite in Ireland WP-008-02 Tipperay,ireland Within the Country 19 12 12 No 20.92 11 R13 M Weighed Offsite in Ireland Wurendale Ltd.,W0140-04 n,Co. Meath,Ireland Within the Country 19 12 12 No 20.92 11 R13 M Weighed Offsite in Ireland Wurendale Ltd.,W0140-04 n,Co. Meath,Ireland Within the Country 19 12 12 No 20.92 11 R13 M Weighed Offsite in Ireland Wurendale Ltd.,W0140-04 n,Co. Meath,Ireland n,Co. Meath,Ireland Within the Country 19 12 12 No 20.92 11 R13 M Weighed Offsite in Ireland Wuren	Т	Other Countries	19 12 04	No	60.14	plastic and rubber	R13	М	Weighed	Abroad	Limited, IRE/G082/11	317 Golden Hill		
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Within the Country 19 12 07 No 1256.42 wood other than that mentioned in 19 12 06 R13 M Weighed Offsite in Ireland WP-008-02 Tipperary mireland Within the Country 19 12 12 No 20.92 11 R13 M Weighed Offsite in Ireland WP-008-02 Tipperary mireland Within the Country 19 12 12 No 20.92 11 R13 M Weighed Offsite in Ireland Nurendale Ltd.,W0140-04 n,Co. Meath,Ireland Other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 Keighed Offsite in Ireland Nurendale Ltd.,W0140-04 n,Co. Meath,Ireland Within the Country 19 12 12 No 20.92 11 R13 M Weighed Offsite in Ireland Nurendale Ltd.,W0140-04 n,Co. Meath,Ireland Other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 Starrus Eco Holdings Fasaroe,Bray,Co.	v	thin the Country	19 12 04	No	671.36	plastic and rubber	R13	м	Weighed	Offsite in Ireland	2008/06	,Co. Louth,Ireland		
Within the Country 19 12 12 No 20.92 11 R13 M Weighed Offsite in Ireland Nurendale Ltd.,W0140-04 n,Co. Meath,Ireland other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12 Starrus Eco Holdings Fassaroe,Bray,Co.	v	thin the Country	19 12 07	No		other wastes (including mixtures of materials) from mechanical treatment of	R13	М	Weighed	Offsite in Ireland		Tipperary ,,,ireland		
	W	thin the Country	19 12 12	No	20.92	11 other wastes (including mixtures of materials) from mechanical treatment of	R13	М	Weighed	Offsite in Ireland		n,Co. Meath,Ireland		
Within the Country 19 12 12 No 9625.218 11 R13 M Weighed Offsite in Ireland Ltd, W0053-03 Wicklow,,Ireland	v	thin the Country	19 12 12	No			R13	м	Weighed	Offsite in Ireland		Fassaroe,Bray,Co. Wicklow,,Ireland		

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE | PRTR#: W0177 | Facility Name : Starrus Eco Holdings Limited (Waterford City) | Filename : W0177_2017.xls | Return Year : 2017 |

									Licence/Permit No of Next			
			Quantity						Destination Facility Non	Haz Waste : Address of Next	Name and License / Permit No. and	
			(Tonnes per						Haz Waste: Name and Licence/Permit No of	Destination Facility Non Haz Waste: Address of	Address of Final Recoverer / Disposer (HAZARDOUS WASTE	Actual Address of Final Destination i.e. Final Recovery / Disposal Site
			Year)				Method Used		Recover/Disposer	Recover/Disposer	ONLY)	(HAZARDOUS WASTE ONLY)
			,		Waste	-					- · · ·	
	European Waste				Treatment			Location of				
ransfer Destination	Code	Hazardous		Description of Waste	Operation	M/C/E	Method Used	Treatment				
					•					7 Glyntown		
									Marwin	Heights,Glanmire,Co.		
	20 01 01	No		2 paper and cardboard	R13	М	Weighed			Cork,.,Ireland		
Vithin the Country	20 01 01	No	189.56	6 paper and cardboard	R3	м	Weighed	Offsite in Ireland	Shred It Ireland,.	.,.,,,lreland		
Vithin the Country	00.01.01	No	10.70		R13		Mainhad	Offeite in Ireland	Nurendale Ltd.,W0140-04	Rathdrinagh,Beauparc,Nava n,Co. Meath,Ireland		
Vithin the Country	200101	INO	10.72	2 paper and cardboard	ніз	М	Weighed	Onsite in Ireland	Nurendale Ltd., W0140-04	Ballymount		
									Irish Packaging &	Road,Walkinstown,Dublin		
Vithin the Country	20 01 01	No	1923.68	8 paper and cardboard	R13	м	Weighed	Offsite in Ireland		12Ireland		
,									Northwood Recycling	Waterside, Disley, Stockport, S		
o Other Countries	20 01 01	No	27.42	2 paper and cardboard	R3	М	Weighed	Abroad		K12 2HW, United Kingdom		
									Peute Papier Recycling	Veeplaat 40,3313 LJ		
o Other Countries	20 01 01	No	331.06	6 paper and cardboard	R3	М	Weighed	Abroad	BV,IRE/G006/08	Dordrecht,.,.,Netherlands		
									Ormonde Organics Ltd,WFP-			
Vithin the Country	20 01 08	No	741.14	4 biodegradable kitchen and canteen waste	R3	М	Weighed	Offsite in Ireland	WD-10-0003-01	Waterford,.,Ireland		
									Molloy Waste Services to	Levelsesterm Olement Oc		
Vithin the Country	20 01 08	No	0507 1	1 biodegradable kitchen and canteen waste	R3	м	Weighed	Offsite in Ireland	Clonmel Waste Disposal Ltd ,WP-008-02	Tipperary ireland		
vitriin the Country	20 01 08	NU	2007.1	i biodegradable kitchen and canteen waste	nə	IVI	weighed	Onsite in rieland	,WF-000-02	Glen Abbey Complex		
									Textile Recycling Ltd	,Belgard ,Tallaght , Dublin		
Vithin the Country	20 01 11	No	1.14	4 textiles	R13	м	Weighed	Offsite in Ireland		24 ,ireland		
				discarded electrical and electronic								
				equipment other than those mentioned in 20							KMK Metals Recyling	
				01 21 and and 20 01 23 containing					KMK Metals Recyclin	Tullamore,Co.	Ltd,w0113-04,Tullamore,Co	
Vithin the Country	20 01 35	Yes	13.14	4 hazardous components	R4	М	Weighed	Offsite in Ireland		Offaly,.,,,Ireland	Offaly,.,,,ireland	.,.,,,ireland
									Agnail ,TFS Broker			
Vithin the Country	20 01 39	No	19.99	9 plastics	R13	м	Weighed	Offsite in Ireland	IRE/AG117/11	.,.,Ballycoolin,Dublin,Ireland		
Vithin the Country	20 01 38	No	650 50	9 wood other than that mentioned in 20 01 37	D2	М	Weighed	Offsite in Ireland	Clonmel Waste Disposal Ltd	Tipperaryireland		
within the Country	200130	NU	039.55	5 wood other than that mentioned in 20 01 37	nə	IVI	weighed	Onsite in rieland	Ormonde Organics	Killowen,Portlaw,Co.		
Within the Country	20 01 38	No	3.62	2 wood other than that mentioned in 20 01 37	B3	м	Weighed	Offsite in Ireland		Waterford,.,Ireland		
,										10 The Anchorage Business		
									Davis Recycling Ltd,W0134-	Park,Charlotte Quay,Dublin		
Within the Country	20 01 40	No	169.25	5 metals	R4	М	Weighed	Offsite in Ireland	01	4,.,Ireland		
										Murrough Industrial		
									Multimetals Recycling	Estate,Bollarney,Wicklow,Co		
Within the Country	20 01 40	No	7.06	6 metals	R4	м	Weighed	Offsite in Ireland	Ltd,WFP-WW-13-0014-03	. Wicklow, Ireland		
Vithin the Country	20.02.01	No	100.70	6 biodegradable waste	R3	М	Weighed	Offsite in Ireland	Clonmel Waste Disposal Ltd	Tipperary ireland		
within the Country	20 02 01	NU	132.70	biouegradable waste	nə	IVI	weighed	Onsite in rieland	,WF-000-02	Millennium Business		
									Starrus Eco Holding	Park,Grange,Ballycoolin,Dub		
Vithin the Country	20 02 01	No	64.36	6 biodegradable waste	R13	М	Weighed	Offsite in Ireland		lin 11,Ireland		
										Millennium Business		
									Starrus Eco Holding	Park,Grange,Ballycoolin,Dub		
Within the Country	20 03 01	No	60.16	6 mixed municipal waste	R13	М	Weighed	Offsite in Ireland	Ltd.,W0183-01	lin 11,Ireland		
										Greenogue Business		
	00.00.04	NI-	040.4	t mixed municipal weats	D40		Martin Inc.	Offsite in Ireland	Starrus Eco Holdings	Park,Rathcoole,Co. Dublin,. Ireland		
Within the Country	20 03 01	No	819.1	1 mixed municipal waste	R13	М	Weighed	Offsite in Ireland		Belview Port,Co.		
Vithin the Country	20 03 01	No	20518.7	7 mixed municipal waste	R13	М	Weighed	Offsite in Ireland		Kilkenny,,Ireland		
and the Oountry	20 00 01	110	20010.7	annou manioipai masto	1110	1.01	. cigned	Choice in rieldilu	0002 01	Sarsfieldcourt Industrial		
									Starrus Property Holdings	Estate,Glanmire,Co.		
Vithin the Country	20 03 01	No	13.58	8 mixed municipal waste	R13	м	Weighed	Offsite in Ireland	Ltd.,WFP-CK-10-0047-03	Cork,.,Ireland		
										Six Cross Roads Business		
									Starrus Eco Holdings	Park, Carriganard, Butlerstow		
Vithin the Country	20 03 01	No	80.52	2 mixed municipal waste	R13	м	Weighed	Offsite in Ireland	Ltd.W0116-02	n,Waterford,Ireland		
	20 03 01	110	00.02									
Vithin the Country		No		7 mixed municipal waste	R3	м	Weighed	Offsite in Ireland	Quality Recycling Ltd.,WFP-			

									naz waste . Name anu			
									Licence/Permit No of Next			
			Quantity						Destination Facility Non	Haz Waste : Address of Next	Name and License / Permit No. and	
			(Tonnes per						Haz Waste: Name and Licence/Permit No of	Destination Facility Non Haz Waste: Address of	Address of Final Recoverer / Disposer (HAZARDOUS WASTE	Actual Address of Final Destination i.e. Final Recovery / Disposal Site
			Year)				Method Used		Recover/Disposer	Recover/Disposer	DISPOSER (HAZAHDOUS WASTE ONLY)	(HAZARDOUS WASTE ONLY)
			(ear)		Waste		Welliou Useu	•	Hecover/Disposer	Hecover/Disposer	ONET)	(HAZARDOUS WASTE ONET)
	E				Treatment			Location of				
T (D)	European Waste	L la manufacción		Description of Wests			Markle and the sol	Treatment				
Transfer Destina	tion Code	Hazardous		Description of Waste	Operation	M/C/E	Method Used	Treatment		Dallanaant		
									hish Destruction 0	Ballymount Road.Walkinstown.Dublin		
					5.40				Irish Packaging &			
Within the Count	y 20 03 01	No	5.26	6 mixed municipal waste	R13	М	Weighed	Offsite in Ireland	Recycling,W0263-01	12,.,Ireland		
									Starrus Eco Holdings	Fassaroe,Bray,Co.		
Within the Count	y 20 03 07	No	34.14	4 bulky waste	R13	М	Weighed	Offsite in Ireland	Ltd,W0053-03	Wicklow,.,Ireland		
										Drehid Landfill,Drehid		
Within the Count	y 20 03 03	No	618.7	7 street-cleaning residues	D5	М	Weighed	Offsite in Ireland	Bord Na Mona,W0201-01	,Naas,Co. Kildare,Ireland		
									Starrus Eco Holdings	Fassaroe,Bray,Co.		
Within the Count	y 20 03 03	No	1040.1	1 street-cleaning residues	R13	М	Weighed	Offsite in Ireland		Wicklow,.,Ireland		
									Murray Waste Recycling	Coolatore, Ferns, Co.		
Within the Count	y 20 03 07	No	85.78	3 bulky waste	R13	М	Weighed	Offsite in Ireland	Ltd.,W0258-01	Wexford,.,Ireland		
										Sarsfieldcourt Industrial		
									Starrus Property Holdings	Estate,Glanmire,Co.		
Within the Count	y 20 03 07	No	14.04	4 bulky waste	R13	М	Weighed	Offsite in Ireland	Ltd.,WFP-CK-10-0047-03	Cork,.,Ireland		
										Rathdrinagh, Beauparc, Nava		
Within the Count	y 20 03 07	No	7.509	e bulky waste	R13	М	Weighed	Offsite in Ireland	Nurendale Ltd.,W0140-04	n,Co. Meath,Ireland		
										Ballymount		
									Irish Packaging &	Road,Walkinstown,Dublin		
Within the Count	y 150103	No	14.74	4 wooden packaging	R13	М	Weighed	Offsite in Ireland	Recycling,W0263-01	12Ireland		
							Ŭ		y 0.	Ballycarney, Enniscorthy, Co.		
Within the Count	v 150104	No	5.48	3 metallic packaging	R4	М	Weighed	Offsite in Ireland	Molloy Metals, WP08/14b	WexfordIreland		
										Ballymount		
									Irish Packaging &	Road,Walkinstown,Dublin		
Within the Count	y 150104	No	82	2 metallic packaging	R13	м	Weighed	Offsite in Ireland	Recycling,W0263-01	12,,Ireland		
	,		0.2							-,,,	KMK Metals Recyling	
									KMK Metals Recyclin	Tullamore.Co.	Ltd.w0113-04.Tullamore.Co	
Within the Count	v 16.06.01	Yes	2 073	3 lead batteries	R4	м	Weighed	Offsite in Ireland		Offaly,,Ireland		.,,,,,ireland
Within the Oount	, 100001	103	2.070	read ballenes			reigheu	Choice in freidric	210,00110.04	onary,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Chary,	

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

APPENDIX 2

Procedures List



greenstar setting the standard		Procedure Listing
Doc. No.: Control	Revision No.: As Shown	Issue Date: As Shown
Approved By:	David Naughton – Group Environmental Manager	Page 1 of 5
	Joe Nicholson – Group H&S Manager	

Integrate	ed Procedures - IP	
IP-01	Document & Record Control Procedure	Rev 01, 22/05/17
IP-02	Health & Safety Risk Assessment Procedure	Rev 01, 22/05/17
IP-03	Environmental Aspects & Impacts Procedure	Rev 01, 22/05/17
IP-04	Legal & Regulatory Requirements Procedure	Rev 01, 22/05/17
IP-05	Objectives, Targets & Management Programmes Procedure	Rev 01, 22/05/17
IP-06	Competence, Training & Awareness Procedure	Rev 01, 22/05/17
IP-07	Communication & Consultation Procedure	Rev 01, 22/05/17
IP-08	Monitoring, Measurement & Improvement Procedure	Rev 01, 22/05/17
IP-09	Evaluation of Compliance Procedure	Rev 01, 22/05/17
IP-10	Non Conformances, Corrective/Preventive Actions Procedure	Rev 01, 22/05/17
IP-11	Internal Audit Procedure	Rev 01, 22/05/17
IP-12	Management Review Procedure	Rev 01, 22/05/17
IP-13	Control of Contractors/Visitors Procedure	Rev 01, 22/05/17
IP-14	Health & Safety & Environmental Monitoring	Rev 01, 22/05/17
IP-15	Emergency Preparedness & Response Procedure	Rev 01, 22/05/17
IP-16	Fire Prevention Procedure	Rev 01, 22/05/17
IP-17	Bin Washing Procedure	Rev 01, 22/05/17
IP-18	Accident Prevention Procedure	Rev 01, 22/05/17
IP-19	Fuel Procedure for Tanks & Mobile Plant	Rev 01, 22/05/17

Safety Pro	Safety Procedures - SP						
SP-01	Permit to Work Procedure	Rev 01, 22/05/17					
SP-02	Maintenance & Calibration Procedure	Rev 01, 22/05/17					
SP-03	Mobile Plant Procedure	Rev 01, 22/05/17					
SP-04	Fork Truck Procedure	Rev 01, 22/05/17					
SP-05	Operation of Fixed Plant Procedure	Rev 01, 22/05/17					
SP-06	Lock Out / Tag Out Procedure	Rev 01, 22/05/17					
SP-07	Health & Safety Notification Procedure	Rev 01, 22/05/17					
SP-08	MSW Shredder routine Maintenance & Clearing of Blockages Procedure (SCGT)	Rev 01, 22/05/17					
SP-09	Weighbridge & Tipping Procedure (SCGT)	Rev 01, 22/05/17					
SP-10	Cleaning of Washing Bay (Greenogue)	Rev 01, 22/05/17					



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Environm	Environmental Procedures - EP						
EP-01	Office Waste & Energy Management Procedure	Rev 01, 22/05/17					
EP-02	Decommissioning and Aftercare Procedure	Rev 01, 22/05/17					
EP-03	Environment Communications Procedure	Rev 01, 22/05/17					
EP-04	Waste Permits & Licences Procedure	Rev 01, 22/05/17					
EP-05	Waste Acceptance Procedure	Rev 01, 22/05/17					
EP-06	Unacceptable Waste Procedure	Rev 01, 22/05/17					
EP-07	Waste & Material Storage Procedure	Rev 01, 22/05/17					
EP-08	Waste Processing Procedure	Rev 01, 22/05/17					
EP-09	Site Infrastructure Procedure	Rev 01, 22/05/17					
EP-10	Nuisance Management Procedure (Site Specific)	(Site Specific)					
		Rev 01, 22/05/17					
EP-11	Civic Amenity Site Procedure	Rev 01, 22/05/17					



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	0.C
01.02.11	09	IP-10	03	Inclusion of SP-08	0.C
01.02.11	10	IP-15	02	Removal of SF-022	0.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	0.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	0.C
01/12/11	18	SP-09	01	Inclusion of new procedure for SCGT	0.C
01/12/11	19	SP-10	01	Inclusion of new procedure for SCGT	0.C
03/05/12	20	SP-01	02	Amendment to remove SF 028	0.C
05/05/12	21	SP-11	01	Inclusion of a new procedure for Greenogue	0.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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Doc. No.: Control	Revision No.: As Shown	Issue Date: As Shown
Approved By:	Malcolm Dowling - Group Compliance Manager	Page 4 of 5

Date	Amendment No.	Procedure No:	Revision No:	Comment	Authorised By
30/06/13	25	IP-16	01	Inclusion of new procedure	M.D.
09/09/13	26	IP-03	02	Use of Scannell Software Solutions (EnviroManager) instead of IF-03A	M.D & O.C
09/09/13	27	IP-04	30	Use of Scannell Software Solutions (EnviroManager) instead of IF-03A	M.D & O.C
09/09/13	28	IP-05	02	Use of Scannell Software Solutions (EnviroManager) instead of IF-03A	M.D & O.C
16/10/13	29	EP-03	03	Introduction of EPA ALDER Portal	K.B
28/04/14	30	All EP's & IP's	01	Change of Company name and review of all Integrated and Env procedures	M.D & O.C
28/04/14	31	SP's	01	Change of Company name and review of all safety procedures including re- numbering & deletion of Motor Claim Notification Procedure – SP 08	0.C
06/05/15	32	EP-09	02	Ref to new form EF-11 added	SS
21/01/16	33	IP-05/IP- 07/IP-12	02	Meeting frequency refs updated	SS
14/11/16	34	IP-18	02	Amended as per EPA instruction	SS
11/01/17	35	IP-19	01	New addition	SS
22/05/17	36	All EP's, SP's & IP's	01	Review of all procedures	DN & JN



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