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ANNUAL ENVIRONMENTAL REPORT

STARRUS ECO HOLDINGS LTD

DEEP WATER QUAY SLIGO

LICENCE NO. W0058-01

JANUARY 2017 – DECEMBER 2017

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TABLE OF CONTENTS

	<u>PAGE</u>
1. INTRODUCTION.....	1
2. SITE DESCRIPTION.....	2
2.1 SITE LOCATION AND LAYOUT	2
2.2 WASTE MANAGEMENT ACTIVITIES	2
2.2.1 Waste Types.....	2
2.2.2 Plant List.....	4
3. EMISSION MONITORING	5
3.1 SURFACE WATER MONITORING	5
3.2 GROUNDWATER MONITORING.....	6
3.3 FOUL WATER MONITORING	8
3.4 NOISE SURVEY	9
3.5 LANDFILL GAS MONITORING	10
4. SITE DEVELOPMENT WORKS.....	12
4.1 ENGINEERING WORKS.....	12
4.2 SUMMARY OF RESOURCE & ENERGY CONSUMPTION	12
4.3 BUND INTEGRITY TEST.....	12
5. WASTE RECEIVED AND CONSIGNED	13
6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS	17
6.1 INCIDENTS	17
6.2 REGISTER OF COMPLAINTS.....	17
7. ENVIRONMENTAL DEVELOPMENT	18
7.1 ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT	18
7.1.1 Site Management Structure	18
7.1.2 Staff Training.....	19
7.2 ENVIRONMENTAL MANAGEMENT PROGRAMME PROPOSAL	19
7.2.1 Schedule of Objectives 2017	19
7.2.2 Schedule of Objectives 2018	19
7.3 COMMUNICATIONS PROGRAMME	22
7.4 ELRA & REPORT ON FINANCIAL PROVISION	22
7.5 NUISANCE CONTROLS	22
8. OTHER REPORTS.....	23
8.1 EUROPEAN POLLUTANT RELEASE AND TRANSFER REGISTER REGULATION	23

APPENDIX 1 - European Pollutant Release and Transfer Register

APPENDIX 2 - Procedures List

1. INTRODUCTION

This is the 2017 Annual Environmental Report (AER) for the Starrus Eco Holdings Ltd (SEHL), Materials Recovery & Transfer facility (MRF) at Deep Water Quay, Sligo. It covers the period from the 1st January 2017 to the 31st December 2017.

The content is based on Schedule B of the Industrial Emissions Licence (Reg. No. W0058-01) and the report format follows guidelines set in the “Guidance Note for Annual Environmental Report” issued by the Environmental Protection Agency (Agency)¹. Account is also taken of the AER Draft Guidance Document and AER Information Templates issued by the Agency in January 2012².

¹ EPA (Environmental Protection Agency) 1999 Waste Licensing – Draft Guidance on Environmental Management Systems and Reporting to the Agency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 installation is located at Deepwater Berths Road, approximately 1.5 km northwest of Sligo town centre and 1 km from a relief road linking the N4 to the N15.

The licensed area, which encompasses approximately 11,000 m² and is accessed off the Deepwater Berths Road, is occupied by one waste transfer building, site offices, open yard areas and a civic amenity area.

The main building encompasses approximately 2,322 m² and is divided into three bays. The site offices, which are located beside the main entrance, comprise a two storey building encompassing approximately 84 m². The north-western yard is paved with concrete and provides access to the waste processing building. The south-eastern yard is also paved and comprises the civic amenity area and an open paved yard area.

2.2 Waste Management Activities

The installation is licensed to accept 100,000 tonnes per annum of household waste, commercial waste, industrial non-hazardous waste and construction and demolition waste for processing and/or transfer for disposal or recovery.

2.2.1 Waste Types

The installation is licensed to accept the following waste types: -

- Household (41,400 tonnes);
- Commercial (4,600 tonnes);
- Industrial Non-hazardous (45,000 tonnes);
- Construction & Demolition (C&D) (9,000 tonnes);

No hazardous wastes or liquid waste are accepted.

Waste bulking and segregation take place inside the waste transfer building, as specified in Condition 5.1 of the Licence and includes:

- Segregation of recyclable material (paper, cardboard, plastic, wood, aluminium cans);
- Baling of segregated materials;
- Sorting and segregation of C&D waste;
- Bulking up of Municipal Solid Waste;
- Transfer of recovered and residual materials to appropriately licensed recycling, recovery and disposal outlets.

Household Waste

Source segregated household dry recyclables are baled and stored prior to transfer to permitted/licensed off-site recycling facilities. In 2016 residual or black bin household waste was baled and exported for recovery. This activity has now ceased and instead the material is bulked for onward transport to 3rd party sites.

Commercial and Industrial Waste

Both mixed and segregated commercial waste is collected from commercial outlets. Commercial waste containing many recyclable waste streams (paper, cardboard, glass, metal, green waste and wood) is delivered to the installation by both 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 that are suitable for composting are sent to an offsite authorised composting facility. The remaining non-recyclable material is bulked and sent to appropriately licensed landfills/recovery 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 waste loads are inspected and then bulked. The majority of the incoming material is recovered and sent off-site either for re-use or recycling at authorised facilities. The non-recyclable elements are transferred to a licensed landfill.

Civic Amenity Area

The civic amenity area is located to the south-east of the waste transfer building and has its own dedicated entrance for members of the public. There are a number of dedicated closed skips for MSW, dry recyclables (cardboard, plastics, metals, papers etc) and WEEE.

2.2.2 Plant List

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

Table 2.1 Plant List – 2017

No.	Plant	Model	Operational Capacity	Standby Capacity
1	Baler	Boa	7t/hr	7t/wk
1	Paper Shredder	Alleghney	500kg/hr	500kg/hr
1	Hook Lifter	Scania	65hr/wk	-
1	Loading Shovel	Caterpillar 938G	70t/hr	-
1	Fork Lift	Yale x2	65hr/wk	-
1	Grab	Fuchs MHL340	25t/hr	-
1	Weighbridge	Avery Weightronic	46hr/wk	-

3. EMISSION MONITORING

SEHL implements a comprehensive environmental monitoring programme to assess the significance of emissions from site activities as per Schedule E of the Waste Licence. The programme includes surface water, foul water, groundwater, noise, landfill gas and dust monitoring. In November 2016, the Agency notified SEHL that dust monitoring would no longer be required at the installation. The monitoring locations are shown on Figure 3.1. The monitoring results are submitted to the Agency at quarterly intervals. An overview of the monitoring conducted in 2017 is presented in this Section.

3.1 Surface Water Monitoring

Condition 9.2 and Schedule E of the Licence requires quarterly monitoring at one surface water emission point (SE-2) to the Garvogue River. The range of analysis includes pH, electrical conductivity, Chemical Oxygen Demand (COD), Biological Oxygen Demand (BOD), ammoniacal nitrogen, chloride, surfactants, total suspended solids (TSS), mineral oils, and oils, fats and greases. The results, which are shown on Table 3.1, indicate the discharge is generally of good quality. There was one exceedance of the emission limit for TSS in March 2017.

Following an assessment of the surface water system it was found that SE-2 only served the north-western yard. A second discharge point to the Garvogue was identified which serves the south eastern yard and this emission point, labelled SE-3, was added to the monitoring schedule in Q2 and Q3 2015. Drainage works carried out at the site between 02/10/15 and 20/11/15 included the diversion of storm water run-off from the south eastern yard to the foul sewer. As a result monitoring at point SE-3 is no longer required.

Table 3.1 Surface Water Results for 2017

Parameter	Units	Q1	Q2	Q3	Q4	Emission Limit (Grab Sample)*
pH	pH units	6.63	7.21	7.37	7.45	6 – 9
Chloride	mg/l	21	14.8	15.6	14.9	N/A
Ammoniacal Nitrogen	mg/l	1.2	0.42	0.69	0.24	N/A
COD	mg/l	16	7	<7	17	N/A
BOD	mg/l	5	<1	3	**	24
Total Suspended Solids	mg/l	43	10	<10	27	36
Surfactants	mg/l	<0.2	1.1	0.9	0.8	N/A
Mineral Oils	mg/l	<0.01	<0.01	<0.01	<0.01	N/A
Oils, Fats & Greases	mg/l	<0.01	<0.01	<0.01	<0.01	12
Total Coliforms	cfu/100ml	>2420	-	-	-	N/A
Faecal Coliforms	cfu/100ml	686.7	-	-	-	N/A

N/A - not applicable

*Condition 7.7.1.3. No grab sample shall exceed 1.2 times the emission limit value.

3.2 Groundwater Monitoring

There are no direct or indirect emissions to ground from the installation. Groundwater monitoring is carried out annually at the two locations (MW1 and MW2) shown on Figure 3.1. MW1 is on the southern boundary of the site in an open paved yard and MW2 is at the northern boundary, near the main entrance to the site. MW1 is upgradient of site activities, while MW2 is downgradient.

The closed Finiskiln landfill is immediately south west and up hydraulic gradient of the site. The landfill was operated by Sligo Borough Council from 1958 to 1994 and was used for the disposal of municipal solid waste. The Garavogue River estuary is immediately north of the site.

The monitoring was carried out in March. The parameters were ammoniacal nitrogen, BOD, chloride, mineral oils, pH and coliforms. The methodologies were all ISO/CEN approved or equivalent. There are no trigger limits set in the Licence and the results are compared to the Interim Guideline Values (IGV) on groundwater quality published by the Agency and the Groundwater Threshold Values (GTV) set out in the European Communities Environmental Objectives (Groundwater) Regulations (S.I. 9 of 2010). The IGVs are not statutory, but were developed to assist in the assessment of impacts on groundwater quality. The IGVs are based on, but are more conservative than the Drinking Water quality standards. GTVs have only been established for core indicator parameters. The results are shown on Table 3.2.

Table 3.2 Groundwater Monitoring Results – March 2017


Parameter	Units	MW-1	MW-2	IGV	GTV
pH	pH units	7.80	7.70	6-9	-
Chloride	mg/l	317.9	32.1	30	24-187.5
Ammoniacal Nitrogen	mg/l	4.64	3.75	0.15	0.065-0.175
BOD	mg/l	7	2	-	-
Mineral Oils	mg/l	<0.01	<0.01	0.01	-
Faecal Coliforms	Cfu/100ml	<1	86	0	-
Total Coliforms	Cfu/100ml	4.1	>2420	0	-

Elevated levels of chloride and ammoniacal nitrogen were detected in the upgradient well (MW-1). Total coliforms were detected at low levels, while faecal coliforms were not detected. Elevated levels of chloride, ammoniacal nitrogen, and total and faecal coliforms were detected in the downgradient well (MW-2). The faecal coliform levels detected at MW-2 were much lower than the levels measured in Q4 2016.

The elevated ammoniacal nitrogen may be attributable to the former landfill. Elevated chloride has been detected in the groundwater in the recent past and is likely associated with saltwater intrusions from the estuary.

The mineral oil level in MW-1 was below the detection limit showing a decrease to levels similar to those detected in 2004.



 <p>O'Callaghan Moran & Associates Unit 15 Melbourne Business Park, Model Farm Road, Cork, Ireland. Tel. (021) 4345366 Email: info@ocallaghanmoran.com</p>	<p>Legend:</p> <ul style="list-style-type: none"> — Licence Boundary ● Foul Water Monitoring Location ● Noise Monitoring Location ● Dust Monitoring Location ● Groundwater Monitoring Location ● Surface Water Monitoring Location 	<p>Waste Licence No. W0058-01</p> <p>Figure: Figure 3.1</p>	
<p>This drawing is the property of O'Callaghan Moran & Associates and shall not be used, reproduced or disclosed to anyone without the prior written permission of O'Callaghan Moran & Associates and shall be returned upon request. Image copyright – Bing Maps</p>	<p>Client: Starrus Eco Holdings Ltd</p>	<p>Title: Environmental Monitoring Locations</p>	<p>Scale: NOT TO SCALE</p>

The closed Finiskiln landfill is immediately south west and up hydraulic gradient of the site. The landfill was operated by Sligo Borough Council from 1958 to 1994 and was used for the disposal of municipal solid waste. The Garavogue River estuary is immediately north of the site.

The elevated ammoniacal nitrogen may be attributable to the former landfill; however, the presence of elevated levels of total and faecal coliforms in MW-2 indicates that the groundwater in the vicinity of this monitoring well may be impacted by sanitary wastewater. There are two possible sources:

- Site sanitary wastewater
- Irish Water foul sewer

Site sanitary wastewater is collected in a foul sewer located west of MW-2. The sewer flows north towards the SE-1 monitoring manhole and connects to the Irish Water sewer to the north east of MW-2. The mains sewer runs adjacent to the north eastern site boundary along the Deepwater Berths Road. A CCTV survey of the site sanitary wastewater system was carried out in January 2017. The system was found to be intact and fit for purpose.

3.3 Foul Water Monitoring

In July 2010, following agreement with the Agency, the drainage system was connected to the Sligo County Council municipal sewer serving the municipal waste water treatment plant located approximately 500 m from the installation.

Prior to Q4 2015 foul water was generated by floor runoff in the transfer building and sanitary discharges only. As mentioned in Section 3.1 above, drainage works carried out between 02/10/15 and 20/11/15 included the diversion of storm water run-off from the South Eastern Yard from the Garvogue River estuary to the foul sewer.

Monitoring is carried out at one location (SE-1), the final discharge point from the installation. A technical amendment issued in January 2013 defines the current monitoring schedule for emissions to sewer. Foul water monitoring is carried out quarterly in accordance with Condition 9.2 and Schedule E.7 of the licence. The sampling location is shown on Figure 3.1 and the monitoring results are presented on Table 3.5.

The range of analysis as specified in Schedule E.7 of the amended Waste Licence includes pH, BOD, COD, ammoniacal nitrogen, chloride, detergents, total suspended solids, mineral oils and oils, fats and greases. The sampling and analysis was carried out in accordance with recognised quality assurance and control procedures.

The ELVs are based on a direct discharge to the Garavogue River. As the discharge to the river has stopped, the ELVs are no longer applicable. In approving the connection to the municipal

sewer, the Sanitary Authority set discharge limits and these are included in Table 3.5. The foul water discharge complied with the Sanitary Authority ELVs..

A technical amendment granted in January 2013 significantly altered the existing monitoring regime and introduced a requirement to obtain composite samples of foul water samples for a number of parameters. This requirement to obtain composite samples was appealed by SEHL and with the agreement of Sligo County Council, the Agency advised that it was appropriate to maintain the current sampling technique (grab sampling).

Table 3.5 Foul Water Monitoring Results for 2017

Parameter	Units	Q1	Q2	Q3	Q4	Sanitary Authority Emission Limits
pH	pH Units	1.66	7.87	7.45	7.08	6 – 10
BOD	mg/l	>1,000	7.83	3.59	*	3,000
COD	mg/l	819	65	11	244	6,000
Chloride	mg/l	1156.9	30.2	18.4	35.6	-
Ammoniacal Nitrogen	mg/l	12.22	5.83	1.80	1.96	100
Total Suspended Solids	mg/l	26	38	<10	24	1,250
Surfactants	mg/l	2.9	1.7	1.0	11	100
Oils, Fats & Greases	mg/l	<0.01	<0.01	<0.01	<0.01	100
Mineral Oils	mg/l	<0.01	<0.01	<0.01	<0.01	10

* - Not analysed due to laboratory closure over Christmas period.

In Q1 2017, the pH levels measured in the foul water sample was below the emission limit. An investigation identified the source as a toilet cleaning agent. The Agency were informed of this incident in accordance with Licence conditions.

3.4 Noise Survey

All waste processing is carried out internally which provides significant attenuation for noise emissions from waste processing. The annual noise survey was carried out on the 1st August 2017 in accordance with Schedule E of the Licence. Monitoring was carried out at the four noise monitoring locations, N-1, N-2, N-5 and N-6 shown on Figure 3.1. The results are summarised on Table 3.6. The survey concluded that the installation was fully compliant with its licence requirements as there were no impacts from installation activities at any potentially noise sensitive locations.

The nearest sensitive receptors to the installation are private residences located approximately 200 metres to the east of the installation across the Garavogue River at Cartron. There are also some individual residences located close to the Finiskiln Industrial Estate approximately 200 metres south of the installation. An inspection undertaken by the acoustic consultant in the vicinity of the nearest sensitive locations prior to the onsite noise survey established that noise emissions from the study site were not audible or discernible at these locations.

Table 3.6 Noise Monitoring Results August 2017

Station	Date	Time	Wind vector	L _{Aeq} 30 min dB	L _{AF10} 30 min dB	L _{AF90} 30 min dB	Specific L _{Aeq} 30 min dB
N1	01.08.17	0807-0037	0	64	64	44	64
	<p>Facility: Operations in waste processing building audible at low level. Several passing trucks and loader movements dominant when present.</p> <p>Extraneous: None audible apart from bird calls, and truck idling outside boundary to 0809. Forklift truck occasionally quite audible outside boundary.</p> <p>Specific L_{Aeq} T determination: Leq after 0809 representative.</p>						
N2	01.08.17	0857-0927	0	65	68	48	<65
	<p>Facility: Operations in building almost continuously quite audible. Sporadic emissions clearly audible from user vehicles and waste disposal activities. Bin manipulation by truck dominant 0908-0911 and 0918-0921.</p> <p>Extraneous: Intermittent vehicle movements on adjacent industrial estate roadways significant when present. Bird song/calls.</p> <p>Specific L_{Aeq} T determination: LAeq influenced by site emissions and traffic. Not possible to assign contributions. Thus <LAeq.</p>						
N5	01.08.17	0851-0921	0	69	71	51	66
	<p>Facility: Operations in building and truck movements on adjacent yard and weighbridge entirely dominant.</p> <p>Extraneous: None audible apart from sporadic vehicle movements on industrial estate roadway during lulls in site yard activity.</p> <p>Specific L_{Aeq} T determination: Leq representative, with near field correction.</p>						
N6	01.08.17	0819-0849	0	60	63	48	60
	<p>Facility: Operations in building continuously clearly audible, chiefly grab in continuous use from 0825. Several truck movements in adjacent yard dominant when present.</p> <p>Extraneous: None audible apart from several vehicle movements in industrial estate roadway outside boundary.</p> <p>Specific L_{Aeq} T determination: Leq considered representative.</p>						

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

3.5 Landfill Gas Monitoring

The annual gas monitoring was carried out in accordance with Schedule E of the Licence and included measurements of methane, carbon dioxide, oxygen and atmospheric pressure from the two groundwater monitoring wells (MW1 & MW2) and the installation office on the 4th July 2017.

OCM carried out the gas measurements using a Gas Data LSMx gas analyser. The meter was calibrated before use. The detection limit is 0.1% for methane, carbon dioxide and oxygen. The results are shown on Table 3.7. There are no trigger limits set in the waste licence. Carbon dioxide and methane were not detected at any of the monitoring locations. There is no evidence that landfill gas is present in the soils beneath the installation.

Table 3.7 Landfill Gas Monitoring Results 2017

LANDFILL GAS MONITORING FORM				Baseline	Ambient	x
Site Name: SEHL Ltd. – Sligo Depot				Site Address: SEHL, Sligo.		
Operator: SEHL				National Grid Reference:		
Site Status: Operational				Date: 04/07/2017		
Instrument used: Gas Data LMSx		Normal Analytical Range: 0 – 100%				
Monitoring Personnel: OCM				Weather:		
Results						
Sample ID	Borehole/ spike/other	CH ₄ (% v/v)	CO ₂ (% v/v)	Comment		
MW1	Borehole	0.0	0.0			
MW2	Borehole	0.0	0.0			
OFFICE	-	0.0	0.0			

4. SITE DEVELOPMENT WORKS

4.1 Engineering Works

There were a no specified engineering works undertaken in 2017.

4.2 Summary of Resource & Energy Consumption

Table 4.1 presents an estimate of the resources used on-site during the reporting period and the previous two years. An energy audit was completed in compliance with Condition 9.13 of the Technical Amendment during 2013 and an Energy Management Policy was developed subsequent to this. A recent energy audit was conducted in May 2016

Table 4.1 Estimates of Resources Used On-Site 2017, 2016 & 2015

Resources	Quantities 2017	Quantities 2016	Quantities 2015
Diesel (green)	15,600 litres	23,400 litres	18,900 Litres
Electricity	116,900 kWh	133,792 Units	103,945 Units
Hydraulic & Engine Oil	800 litres	800 litres	600 litres

4.3 Bund Integrity Test

Condition 4.12.4 of the licence requires that the integrity and water tightness of all underground pipes, tanks, bunding structures and containers and their resistance to penetration by water or other materials carried or stored therein shall be tested and demonstrated by the licensee. It further states that this testing shall be carried out by the licensee at least once every three years and reported to the Agency on each occasion. This testing shall be carried out in accordance with any guidance published by the Agency. A written record of all integrity tests and any maintenance or remedial work arising from them shall be maintained by the licensee.

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 installation for Agency inspection.

5. WASTE RECEIVED AND CONSIGNED

Table 5.1 shows the quantities of wastes accepted and consigned for the reporting period. A more detailed description of the wastes received and consigned in 2017 is presented in the PRTR submission in Appendix 1.

The total quantity of waste received was 26,520 tonnes and the total amount consigned was 27,113 tonnes. For comparative purposes the amounts of waste received and consigned from 2003 to 2016 are presented in Tables 5.2 and 5.3. As per Condition 5.8 of the Licence all the wastes consigned from the site went to authorised recovery and disposal facilities and a copy of the relevant Facility Permit or Waste Licences retained on site for Agency inspection.

The records show that more waste was consigned from the site than accepted. The difference was due to the waste remaining on-site at the end of 2016 which was consigned in 2017.

Table 5.1 Waste Received & Consigned 2017

EWC	Description	Waste In	Waste Out
15 01 01	Cardboard Packaging	1,366.872	1,016.57
15 01 02	Plastic Packaging	382.886	95.45
15 01 04	Metallic Packaging	25.45	
15 01 05	Tetrapak	5.50	
15 01 07	Glass Packaging	23.96	32.36
15 01 09	Textiles	1.26	0.96
16 03 06	Silver Strips	3.48	
17 09 04	Mixed C&D	53.90	
19 08 02	Waste from Desanding	4.32	
19 12 07	Wood other	0.34	
19 12 10	Solid Recovered Fuel (SRF)	4.48	
19 12 12	Other Wastes	18.35	620.90
20 01 01	Paper & Cardboard	232.987	190.84
20 01 02	Glass Municipal	91.24	20.54
20 01 08	Biodegradable Kitchen & Canteen Waste Wastes	840.662	371.14
20 01 11	Textiles	6.16	14.76
20 01 33*	Haz Battery		1.6
20 01 34	Battery	0.68	
20 01 35	REC Electronics & Electrics	129.42	188.08
20 01 38	Wood from municipal sources	92.72	74.50
20 01 39	Plastic from municipal sources	3.99	7.24
20 01 40	Metal from municipal sources	60.10	
20 02 01	Biodegradable garden & park waste	7.58	
20 03 01	Mixed Residual Waste from mechanical treatment	17,061.506	20,164.702
200303	C&I Dry Mixed	318.78	139.62
20 03 07	Bulky Waste	5,783.557	4,173.61
	Total Accepted	26,520.18	
	Total Consigned		27,112.872
	Recovery		21,602.272
	Disposal		5,510.60
	Recovery Rate		79.67%

Table 5.2 Waste Received & Consigned 2016

EWC	Description	Waste In	Waste Out
15 01 01	Cardboard Packaging	997.47	1055.66
15 01 02	Plastic Packaging	522.691	90.95
15 01 04	Metallic Packaging	30.71	
15 01 05	Tetrapak	13.02	
15 01 06	Mixed Packaging	2.14	29.82
15 01 07	Glass Packaging	39.155	51.82
16 03 06	Silver Strips	12.04	3.6
16 06 01	Battery		1.51
17 02 03	Plastic	50.275	
17 09 04	Mixed C&D	15.189	25.06
19 08 02	Waste from Desanding	5.94	
19 12 07	Wood other	2.64	
19 12 09	minerals	29.82	
19 12 10	Solid Recovered Fuel (SRF)	13.06	2,146.04
19 12 12	Other Wastes	322.56	2,439.04
20 01 01	Paper & Cardboard	309.653	206.02
20 01 02	Glass Municipal	66.055	47.36
20 01 08	Biodegradable Kitchen & Canteen Waste Wastes	711.215	178.78
20 01 11	Textiles	16.04	24.54
20 01 33	Haz Battery	0.98	1.4
20 01 35	REC Electronics & Electrics	158.91	209.50
20 01 38	Wood from municipal sources	108.92	74.66
20 01 39	Plastic from municipal sources	38.176	
20 01 40	Metal from municipal sources	72.78	
20 02 01	Biodegradable garden & park waste	10.4	
20 02 03		0.42	
20 03 01	Mixed Residual Waste from mechanical treatment	15,047.308	17,766.254
200303	C&I Dry Mixed	289.655	
20 03 07	Bulky Waste	6,538.022	1,664.98
	Total Accepted	25,425.244	
	Total Consigned		26,016.994
	Recovery		20,983.746
	Disposal		5,033.248
	Recovery Rate		80.65%

Table 5.3 Total Tonnages Received and Consigned in 2003-2016

Year	Tonnes per Annum	Tonnes Recovered	Tonnes Landfilled
2003/2004	14,484	2,199	12,285
2004	18,548	6,351	12,197
2005	21,500	6,750	12,694
2006	23,196	8,393	15,634
2007	32,271	9,224	24,672
2008	36,993	7,082	32,148
2009	24,267	8,760	16,864
2010	17,359	7,215	11,277
2011	24,982	8,961	16,021
2012	19,201	7,423	11,778
2013	16,556	7,140	9,416
2014	18,169	12,020	5,932
2015	25,433	8,470	16,963
2016	25,425	20,984	5,033

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

There were two environmental incidents during the reporting period one of which related to an exceedance of the emission limit for TSS in surface water. The other exceedance was of the emission limit for pH in the foul water. There were no other incidents at the installation as defined by the Licence.

The pH levels measured in the foul water sample was below the emission limit. An investigation identified the source as a toilet cleaning agent. The exceedances were reported to the Agency in accordance with Condition 3.3 of the Licence.

6.2 Register of Complaints

SEHL maintains a register of complaints received in accordance with Condition 3.12 of the Licence. One complaint was received during the reporting period.

7. ENVIRONMENTAL DEVELOPMENT

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 the requirements of the Industrial Emissions 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. A successful IMS external surveillance audit was conducted on 18th August 2016.

As part of this IMS, SEHL has developed a list of environmental, management, operating and maintenance procedures, details of which are outlined in Appendix 2. 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.

7.1.1 Site Management Structure

Name: Barry Gallagher (January to July)
Responsibility: Operations Manager; overall management of the site, responsible for management of all fleet activities
Experience: 23 years experience. N.C.B.S

Name: Tony Byrne (From July)
Responsibility: Operations Manager; overall management of the site, responsible for management of all fleet activities
Experience: 1 year waste management experience. Has completed the “FAS” Waste Management course.

Name: Claire McMahon
Responsibility: Office administration
Experience: 9 years in the waste industry. Has completed the “FAS” Waste Management course.

7.1.2 *Staff Training*

Staff training is carried out for any new staff employed at the installation as required. Copies of all training records are held in the installation office.

7.2 Environmental Management Programme Proposal

7.2.1 *Schedule of Objectives 2017*

The objectives that were 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.

Table 7.1 Schedule of Objective and Targets 2017

No.	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
3	Waste storage	Review waste storage practices on each site to ensure that they are inline 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	Licence Review	Lodge licence review for changes to waste types in CA site	Q2-Q4	EHS team	On Hold
9	Infrastructure Repairs	Seal up openings in building eves	Q2	Site management	Ongoing

Table 7.2 Schedule of Objective and Targets 2018

No.	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 inline 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	Update FRA	Carry out new Fire risk Assessment for tyre acceptance	Q2-Q3	EHS Team/site management

7.3 Communications Programme

SEHL are committed to setting the standard in waste management and ensuring environmental compliance in all operations. To this end SEHL has drawn up a Communications Programme, which details how members of the public are facilitated in accessing environmental information at the installation.

Records available for public inspection on-site include:-

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

Opening Times for Inspection of Records are from 10 am – 4 pm.

Visits to the site should be arranged in advance by ringing the Facility Manager or Supervisor at 071 - 9143037.

7.4 ELRA & Report on 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. In 2017, the Agency requested a review of the DMP and ELRA, revised copies of the reports were submitted in April.

7.5 Nuisance Controls

SEHL has contracted a vermin control company to carry out nuisance control at the installation. Pestfree provide pest control at the installation and also provide for the treatment of insects at the installation if necessary. Daily litter picks and road-sweeping are carried out by yard operators during the course of their daily duties.

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 SEHL 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



| PRTR# : W0058 | Facility Name : Starrus Eco Holdings Limited (Sligo) | Filename : W0058_2017.xls | Return Year : 2017 |

[Guidance to completing the PRTR workbook](#)

PRTR Returns Workbook

Version 1.1.19

REFERENCE YEAR	2017
-----------------------	------

1. FACILITY IDENTIFICATION

Parent Company Name	Starrus Eco Holdings Limited
Facility Name	Starrus Eco Holdings Limited (Sligo)
PRTR Identification Number	W0058
Licence Number	W0058-01

Classes of Activity

No.	class_name
-	Refer to PRTR class activities below

Address 1	Deepwater Quay
Address 2	Sligo
Address 3	
Address 4	
	Sligo
Country	Ireland
Coordinates of Location	-8.48919 54.28
River Basin District	IEWE
NACE Code	3821
Main Economic Activity	Treatment and disposal of non-hazardous waste
AER Returns Contact Name	Sara Smyth
AER Returns Contact Email Address	sara.smyth@greenstar.ie
AER Returns Contact Position	Environmental Engineer
AER Returns Contact Telephone Number	01 2746236
AER Returns Contact Mobile Phone Number	
AER Returns Contact Fax Number	
Production Volume	0.0
Production Volume Units	
Number of Installations	0
Number of Operating Hours in Year	0
Number of Employees	7
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 2002)

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

4. 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) ?	
--	--

4.1 RELEASES TO AIR

[Link to previous years emissions data](#)

| PRTR# : W0058 | Facility Name : Starrus Eco Holdings Limited (Sligo) | Filename : W0058_2017.xls | Return Year : 2017 |

05/04/2018 17:35

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	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	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	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:

Starrus Eco Holdings Limited (Sligo)

Please enter summary data on the quantities of methane flared and / or utilised

	T (Total) kg/Year	M/C/E	Method Used		Facility Total Capacity m3 per hour
			Method Code	Designation or Description	
Total estimated methane generation (as per site model)	0.0				N/A
Methane flared	0.0				0.0 (Total Flaring Capacity)
Methane utilised in engine/s	0.0				0.0 (Total Utilising Capacity)
Net methane emission (as reported in Section A above)	0.0				N/A

4.2 RELEASES TO WATERS

[Link to previous years emissions data](#)

| PRTR# : W0058 | Facility Name : Starrus Eco Holdings Limited (Sligo) | Filename : W0058_2017.xls | Return Year : 2017 |

05/04/2018 17:35

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

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

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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

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

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

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

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR#: W0058 | Facility Name : Starrus Eco Holdings Limited (Sligo) | Filename : W0058_2017.xl

05/04/2018 17:36

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# : W0058 | Facility Name : Starrus Eco Holdings Limited (Sligo) | Filename : W0058_2017.xls | Return Year : 2017 |

05/04/2018 17:37

SECTION A : PRTR POLLUTANTS

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

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

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

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

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

5. ONSITE TREATMENT & OFFSITE TRANSFERS OF WASTE

| PRTR# : W0058 | Facility Name : Starrus Eco Holdings Limited (Sligo) | Filename : W0058_2017.xls | Return Year : 2017 |

05/04/2018 17:37

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		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		Haz Waste - Name and Licence/Permit No of Recover/Disposer	Non-Haz Waste - Address of Recover/Disposer		
Within the Country	15 01 01	No	1016.57	paper and cardboard packaging	R13	M	Weighed	Offsite in Ireland	Irish Packaging & Recycling Ltd.,W0263-01	Ballymount Road,Walkinstown,Dublin 12,,Ireland		
Within the Country	15 01 02	No	57.63	plastic packaging	R13	M	Weighed	Offsite in Ireland	Leinster Environmental,WP 2008/06	Haggartstown,,,Dundalk,Co Louth,Ireland		
Within the Country	15 01 02	No	37.82	plastic packaging	R13	M	Weighed	Offsite in Ireland	Irish Packaging & Recycling Ltd.,W0263-01	Ballymount Road,Walkinstown,Dublin 12,,Ireland		
Within the Country	15 01 07	No	7.84	glass packaging	R13	M	Weighed	Offsite in Ireland	Glassco Recycling,WFP-KE-08-0357-01	Osberstown Business Park,Naas,Co. Kildare,,Ireland		
Within the Country	15 01 07	No	24.52	glass packaging other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12	R13	M	Weighed	Offsite in Ireland	Rehab Recycling Ltd. ,WPR 004	Ballymount Avenue ,Clondalkin,Dublin 22,,Ireland		
Within the Country	19 12 12	No	20.9	11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12	R13	M	Weighed	Offsite in Ireland	Starrus Eco Holdings Ltd.,W0053-03	Fassaroe,Bray,Wicklow,,Ireland		
Within the Country	19 12 12	No	600.0	11 other wastes (including mixtures of materials) from mechanical treatment of wastes other than those mentioned in 19 12	R13	M	Weighed	Offsite in Ireland	Nurendale,W0140-04	Rathdrinagh,Beauparc,Navan,Co. Meath,Ireland		
Within the Country	20 01 01	No	19.52	paper and cardboard	R13	M	Weighed	Offsite in Ireland	Nurendale Limited,W0039-02	Ballymount Cross,Tallaght,Dublin 24,,Ireland		
Within the Country	20 01 01	No	150.14	paper and cardboard	R13	M	Weighed	Offsite in Ireland	Irish Packaging & Recycling Ltd.,W0263-01	Ballymount Road,Walkinstown,Dublin 12,,Ireland		
Within the Country	20 01 02	No	16.3	glass	R13	M	Weighed	Offsite in Ireland	Glassco Recycling,WFP-KE-08-0357-01	Osberstown Business Park,Naas,Co. Kildare,,Ireland		
Within the Country	20 01 02	No	4.24	glass	R13	M	Weighed	Offsite in Ireland	Rehab Recycling Ltd. ,WPR 004	Ballymount Avenue ,Clondalkin,Dublin 22,,Ireland		
Within the Country	20 01 08	No	371.14	biodegradable kitchen and canteen waste	R3	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Carrowbrowne,Headford Rd,Co Galway,,,Ireland		
Within the Country	20 01 11	No	14.76	textiles	R13	M	Weighed	Offsite in Ireland	Textile Recycling Ltd,WPR014	Greenogue,Dublin 24,,,,Ireland		
Within the Country	20 01 33	Yes	1.26	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-03	Tullamore,,,,Co Offaly,Ireland	KMK Metals,W0113-03,tullamore,-,-,offaly,ireland	tullamore,-,-,offaly,ireland
Within the Country	20 01 35	Yes	188.08	discarded electrical and electronic equipment other than those mentioned in 20 01 21 and 20 01 23 containing hazardous components	R4	M	Weighed	Offsite in Ireland	KMK Metals,W0113-03	Tullamore,,,,Co Offaly,Ireland	KMK Metals,W0113-03,tullamore,-,-,offaly,ireland	tullamore,-,-,offaly,ireland
Within the Country	20 01 33	Yes	0.34	batteries and accumulators included in 16 06 01, 16 06 02 or 16 06 03 and unsorted batteries and accumulators containing these	R5	M	Weighed	Offsite in Ireland	Returnbatt,W0105-01	Kildare,,,,,Ireland	KMK Metals,W0113-03,tullamore,-,-,offaly,ireland	tullamore,-,-,offaly,ireland
Within the Country	20 01 38	No	14.08	wood other than that mentioned in 20 01 37	R1	M	Weighed	Offsite in Ireland	Envirogrind Ltd,env/143/wp4	Donegal Road Pettigo ,Pettigo,Donegal ,,, Ireland		
Within the Country	20 01 38	No	60.42	wood other than that mentioned in 20 01 37	R1	M	Weighed	Offsite in Ireland	OCR Waste Management,WFG-RN-10-0001-01	Roxborough,Roscommon,Co . Roscommon,,Ireland		

Transfer Destination	European Waste Code	Hazardous	Quantity (Tonnes per Year)	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Licence/Permit No of Next Destination Facility Haz Waste: Name and Licence/Permit No of Recover/Disposer Non	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					
Within the Country	20 03 01	No	2867.48	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Starrus Eco Holdings Ltd.,W0183-01	Millennium Business Park ,,,Ballycoolin, Dublin 11, Ireland		
Within the Country	20 03 01	No	86.88	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Galway County Council,W0178-01	East Galway Residual Landfill,Killagh More,Ballinasloe,Co. Galway,Ireland		
Within the Country	20 03 01	No	9223.222	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Barna Waste ,W0106-02	Rd,Co Galway, . . Ireland		
Within the Country	20 03 01	No	3500.56	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Bord na Mona Drehid Landfill,W0201-03	Carbury,Co. Kildare, ,,,Ireland		
Within the Country	20 03 01	No	41.0	mixed municipal waste	R13	M	Weighed	Offsite in Ireland	Starrus Eco Holdings Ltd.,W0053-03	Fassaroe,Bray,Wicklow, ,Irel and		
Within the Country	20 03 01	No	1985.52	mixed municipal waste	R1	M	Weighed	Offsite in Ireland	Covanta,W0232-01	Pigeon House Road,Poolbeg Peninsula,Dublin 4, ,Ireland		
Within the Country	20 03 07	No	44.58	bulky waste	R13	M	Weighed	Offsite in Ireland	Starrus Eco Holdings Ltd.,W0183-01	Millennium Business Park ,,,Ballycoolin, Dublin 11, Ireland		
Within the Country	20 03 07	No	2107.26	bulky waste	R13	M	Weighed	Offsite in Ireland	Nurendale Limited,W0140-04	Rathdrinagh,Beauparc,Navan,Co. Meath,Ireland		
Within the Country	20 03 07	No	99.88	bulky waste	R13	M	Weighed	Offsite in Ireland	Nurendale Limited,W0261-01	Road,Finglas,Dublin 11, ,Ireland		
Within the Country	20 03 07	No	19.28	bulky waste	D5	M	Weighed	Offsite in Ireland	Knockharley Landfill,W0146-02	Knockharley ,Navan,Co. Meath, ,Ireland		
Within the Country	20 03 07	No	1902.61	bulky waste	R13	M	Weighed	Offsite in Ireland	Starrus Eco Holdings Ltd.,W0053-03	Fassaroe,Bray,Wicklow, ,Irel and		
Within the Country	15 01 09	No	0.96	textile packaging	R3	M	Weighed	Offsite in Ireland	Textile Recycling Ltd,WPR014	Greenogue,Dublin 24, , ,Ireland		
Within the Country	20 03 01	No	671.32	mixed municipal waste	R1	M	Weighed	Offsite in Ireland	Indaver Ireland Ltd,W0167-03	Carranstown,Duleek,Co. Meath, ,Ireland		
Within the Country	20 03 01	No	24.46	mixed municipal waste	R12	M	Weighed	Offsite in Ireland	Irish Packaging & Recycling Ltd.,W0263-01	Road,Walkinstown,Dublin 12, ,Ireland		
Within the Country	20 03 03	No	139.62	street-cleaning residues	D5	M	Weighed	Offsite in Ireland	Knockharley Landfill,W0146-02	Knockharley ,Navan,Co. Meath, ,Ireland		
Within the Country	20 01 01	No	21.18	paper and cardboard	R13	M	Weighed	Offsite in Ireland	Nurendale Limited,W0261-01	Road,Finglas,Dublin 11, ,Ireland		
Within the Country	20 01 39	No	7.24	plastics	R13	M	Weighed	Offsite in Ireland	Irish Packaging & Recycling Ltd.,W0263-01	Road,Walkinstown,Dublin 12, ,Ireland		
Within the Country	20 03 01	No	1764.26	mixed municipal waste	D5	M	Weighed	Offsite in Ireland	Knockharley Landfill,W0146-02	Knockharley ,Navan,Co. Meath, ,Ireland		

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

APPENDIX 2

Procedures List



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	

Integrated 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 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



Doc. No.: Control	Revision No.: As Shown	Issue Date: As Shown
Approved By:	David Naughton – <i>Group Environmental Manager</i>	Page 2 of 5
	Joe Nicholson – <i>Group H&S Manager</i>	

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

Doc. No.: Control	Revision No.: As Shown	Issue Date: As Shown
Approved By:	Malcolm Dowling – Group Compliance Manager	Page 3 of 5

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

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	O.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



Doc. No.: Control	Revision No.: As Shown	Issue Date: As Shown
Approved By:	Malcolm Dowling – Group Compliance Manager	Page 5 of 5

Circulation List

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