Unit 15 Melbourne Business Park Model Farm Road Cork



E:info@ocallaghanmoran.com www.ocallaghanmoran.com T: 021 434 5366

ANNUAL ENVIRONMENTAL REPORT

STARRUS ECO HOLDINGS LTD

DEEP WATER QUAY SLIGO

LICENCE NO. W0058-01

JANUARY 2015 – DECEMBER 2015

Prepared For: -

Starrus Eco Holdings Ltd t/a Greenstar Fassaroe, Bray, Co. Wicklow

Prepared By: -

O' Callaghan Moran & Associates, Unit 15 Melbourne Business Park, Model Farm Road, Cork.

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| Project | Annual Environmental Report 2015 | | | | | | |
|-----------|----------------------------------|--------|--------------------------|----------------------------------------------|--|--|--|
| Client | Greenstar W0058-01 | | | | | | |
| Report No | Date | Status | Prepared By | Reviewed By | | | |
| 0481005 | 29/03/2015 | Draft | Mr Billy Hamilton MSc | Dr. Martina Gleeson PhD. | | | |
| 0481005 | 31/03/2015 | Draft | Mr Billy Hamilton MSc | Jim O'Callaghan MSc, CEnv, MCIWM, IEMA | | | |
| 0481005 | 31/03/2015 | Final | Mr Billy Hamilton MSc | Jim O'Callaghan MSc, CEnv, MCIWM, IEMA | | | |
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1. INTRODUCTION

This is the 2015 Annual Environmental Report (AER) for the Starrus Eco Holdings Ltd (Greenstar), Materials Recovery & Transfer facility (MRF) at Deep Water Quay, Sligo. It covers the period from the 1st January 2015 to the 31st December 2015.

The content is based on Schedule B of the Waste 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 Account is also taken of the AER Draft Guidance Document and AER Information Templates issued by the Agency in January 2013².

¹ EPA (Environmental Protection Agency) 1999 Waste Licensing – Draft Guidance on Environmental Management Systems and Reporting to the Agency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 facility 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 $11,000 \text{ m}^2$ 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 $2,322 \text{ m}^2$ 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 facility 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 facility 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. Residual or black bin household waste is baled and exported for recovery.

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 facility by both permitted third party hauliers and by Greenstar 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 facility is given in Table 2.1. The plant provides 100% duty and 50% standby for waste processing.

| No. | Plant | Model | Model Operational Capacity | |
|-----|----------------|----------------------|-------------------------------|----------|
| 1 | Baler | Boa | 7t/hr | 7/t/wk |
| 1 | Paper Shredder | Alleghney | 500kg/hr | 500kg/hr |
| 5 | Truelza | Skip Trucks *3 | 60hr/wk | - |
| 3 | Trucks | Refuse Trucks *4 | 60hr/wk | - |
| 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 | - |

 Table 2.1
 Plant List – 2015

3. EMISSION MONITORING

Greenstar 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. 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 2015 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.

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.

The results, which are shown on Table 3.1, indicate the discharge is generally of good quality. The discharge complied with the ELVs in Q1 and Q4. The total suspended solids detected at both surface water discharge points exceeded the ELVs in Q2 and Q3. Incident reports were submitted to the Agency on both occasions.

A maintenance programme is in place to ensure continued surface water quality. In addition to the drainage maintenance programme, the yard is regularly cleaned and maintained and, in general, housekeeping measures are good. Greenstar will continue to focus their efforts on housekeeping. The diversion of surface water from the South Eastern Yard to foul sewer and hence the elimination of the SE3 emission point will ensure no further exceedances in waste water derived from this part of the facility.

| | | SF_2 | Q2 2015 | | Q3 2015 | | SE_2 | Emission |
|------------------------|-----------|---------|---------|-------|---------|--------|---------|-------------------------|
| Parameter | Units | Q1 2015 | SE-2 | SE-3 | SE-2 | SE-3 | Q4 2015 | Limit (Grab Sample)* |
| pH | pH units | 6.88 | 6.95 | 6.89 | 7.26 | 7.38 | 7.36 | 6 – 9 |
| Chloride | mg/l | 23.6 | 28.6 | 40.2 | 22.6 | 38.5 | 19.1 | N/A |
| Ammoniacal Nitrogen | mg/l | 0.68 | 0.61 | 0.31 | 0.47 | 0.12 | 0.37 | N/A |
| COD | mg/l | <7 | <7 | <7 | <7 | <7 | <7 | N/A |
| BOD | mg/l | 3 | <1 | 1 | <1 | <1 | <1 | 24 |
| Total Suspended Solids | mg/l | 24 | 111 | 81 | 96 | 179 | <10 | 36 |
| Surfactants | mg/l | 0.6 | 1.2 | < 0.2 | 1.2 | 1.4 | 1.2 | N/A |
| Mineral Oils | mg/l | < 0.01 | < 0.01 | 0.67 | < 0.01 | < 0.01 | < 0.01 | N/A |
| Oils, Fats & Greases | mg/l | < 0.01 | < 0.01 | 0.67 | < 0.01 | < 0.01 | < 0.01 | 12 |
| Total Coliforms | cfu/100ml | N/A | N/A | N/A | N/A | N/A | N/A** | N/A |
| Faecal Coliforms | cfu/100ml | N/A | N/A | N/A | N/A | N/A | N/A** | N/A |

Table 3.1Surface Water Results for 2015

N/A - not applicable

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

** Results not available due to sampling error

3.2 Groundwater Monitoring

There are no direct or indirect emissions to ground from the facility. 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 May 2015. The parameters were ammoniacal nitrogen, BOD, chloride, mineral oils, and pH. Due to a scheduling oversight analysis for coliforms was not carried out.

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 Tables 3.2.

Figure 3.1 Monitoring Locations

| Parameter | Units | MW1 | MW2 | IGV | GTV |
|---------------------|----------|----------|--------|------|-------------|
| pH | pH units | 6.76 | 7.50 | 6-9 | - |
| Chloride | mg/l | 23.5 | 32.7 | 30 | 24-187.5 |
| Ammoniacal Nitrogen | mg/l | 0.78 | 0.22 | 0.15 | 0.065-0.175 |
| BOD | mg/l | 43 | <1 | - | - |
| Mineral Oils | mg/l | 2,316.48 | < 0.01 | 0.01 | - |

Table 3.2Groundwater Monitoring Results – May 2015

Elevated levels of ammoniacal nitrogen and mineral oils were detected in the upgradient well (MW-1). Elevated levels of chloride and ammoniacal nitrogen were detected in the downgradient well (MW-2). The BOD detected in MW-1 was higher than in MW-2.

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 (2,316mg/l) was significantly higher than recorded in April 2014 (272.88mg/l). MW-1 is approximately 5m from a neighbouring kerosene and diesel distribution centre. There are no on-site sources of hydrocarbon contamination in the vicinity of this well and it is understood that the source of the contamination is a leak that occurred at the distribution centre.

Following receipt of the monitoring results the Agency opened a compliance investigation (CI 001069) regarding the cause of the elevated level. Greenstar conducted additional monitoring to confirm the presence of the mineral oil and, if possible, to identify the source. This carried out in July and November 2015 and the results are presented in Table 3.3 and 3.4 below.

In response to the elevated mineral oil levels Greenstar conducted further monitoring in July, September and November and the results are presented in Tables 3.3, 3.4 and 3.5

| Parameter | Units | MW1 | MW2 | IGV | GTV |
|---------------------|----------|------|--------|------|-------------|
| pH | pH units | 7.3 | 7.46 | 6-9 | - |
| Chloride | mg/l | 25.3 | 91.0 | 30 | 24-187.5 |
| Ammoniacal Nitrogen | mg/l | 0.55 | 4.08 | 0.15 | 0.065-0.175 |
| BOD | mg/l | 15 | 3 | - | - |
| Mineral Oils | mg/l | 43.8 | < 0.01 | 0.01 | - |

Table 3.3Groundwater Monitoring Results – July 2015

Table 3.4Groundwater Monitoring Results-September 2015

| Parameter | Units | MW1 | MW2 | IGV | GTV |
|---------------------|----------|-------|-------|------|-------------|
| pH | pH units | 7.5 | 7.3 | 6-9 | - |
| Chloride | mg/l | 21.3 | 80.3 | 30 | 24-187.5 |
| Ammoniacal Nitrogen | mg/l | 0.628 | 3.57 | 0.15 | 0.065-0.175 |
| BOD | mg/l | <1 | <1 | - | - |
| Mineral Oils | mg/l | 0.083 | 0.409 | 0.01 | - |

| Parameter | Units | MW1 | MW2 | IGV | GTV |
|---------------------|----------|-------|--------|------|-------------|
| pH | pH units | 6.94 | 10.50 | 6-9 | - |
| Chloride | mg/l | 42.2 | 529.3 | 30 | 24-187.5 |
| Ammoniacal Nitrogen | mg/l | 0.86 | 1.37 | 0.15 | 0.065-0.175 |
| BOD | mg/l | 22 | 20 | - | - |
| Mineral Oils | mg/l | 3.715 | < 0.01 | 0.01 | - |

Table 3.5 Groundwater Monitoring Results – November 2015

While mineral oil was detected in MW-1 in all three events, the levels were significantly lower that the concentrations detected in May. Trace levels of mineral oil were also detected in MW-2 in September, but not in July and November.

Elevated levels of mineral oil have been detected in MW-1 since 2006 and were associated with leaks/spills at the adjoining fuel depot. There is no record that any clean-up/remedial works have been carried out at the depot in the intervening period.

A trend assessment established that the levels have fluctuated over time, peaking at 2,316mg/l in May 2015. The levels detected in July, September and November 2015 were significantly lower, 43.8mg/l, 0.083mgl and 3.71mg/l respectively. The cause of the fluctuations are not known, but they may be associated with either seasonal rainfall, the tidal cycle in the Garvogue River or both.

It was recommended that the groundwater monitoring be carried out quarterly to confirm the declining trend in concentrations since May 2015.

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 facility.

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 facility. 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 (including pH, BOD, COD, chloride, detergents, total suspended solids, mineral oil and Oils Fats and Greases). This requirement to obtain composite samples was appealed by Greenstar and with the agreement of Sligo County Council, the Agency advised that it was appropriate to maintain the current sampling technique (grab sampling).

| Parameter | Units | SE-1 Q1 2015 | SE-1 Q2 2015 | SE-1 Q3 2015 | SE-1 Q4 2015 | Sanitary Authority Emission Limits |
|------------------------|----------|-----------------|-----------------|-----------------|-----------------|---------------------------------------|
| pH | pH Units | 7.12 | 6.95 | 7.40 | 7.85 | 6 – 10 |
| BOD | mg/l | 4 | <1 | <1 | <1 | 3,000 |
| COD | mg/l | 9 | <7 | <7 | <7 | 6,000 |
| Chloride | mg/l | 24.2 | 22.1 | 22.5 | 20.4 | - |
| Ammoniacal Nitrogen | mg/l | 0.67 | 0.33 | 0.47 | 0.99 | 100 |
| Total Suspended Solids | mg/l | 21 | 15 | 26 | <10 | 1,250 |
| Surfactants | mg/l | 0.3 | 1.3 | 1.6 | 1.2 | 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 |

Table 3.5Foul Water Monitoring Results for 2015

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 9th June 2015 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 facility was fully compliant with its licence requirements as there were no impacts from facility activities at any potentially noise sensitive locations.

The nearest sensitive receptors to the facility are private residences located approximately 200 metres to the east of the facility 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 facility. 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.

| Station | Time | L _{Aeq 30} | L _{AF10 30} | LAF90 30 | Specific | Noise audible |
|---------|---------------|---------------------|----------------------|----------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| N1 | 1400- 1630 | 55 | 53 | 45 | 55 | Clamp truck in building and on yards clearly audible. Truck and vehicle movements in weighbridge area also audible. Grab not in use during interval. Offsite, Crows and starlings audible regularly. During lulls in site activity, noise audible from traffic on surrounding industrial estate roads, aircraft, and activity at adjacent coal facility, all contributing to L _{Aeq} .system at nearby premises. Birdsong audible. |
| N2 | 1206- 1236 | 57 | 59 | 50 | 57 | Sporadic car movements at CAS dominant when present. Noise from waste disposal activities also audible. Clamp truck audible at low level in building 1601-1606.Offsite, intermittent traffic on adjacent industrial estate road dominant when present. Crow calls and starlings audible throughout interval. No other noise audible apart from aircraft and bird calls on water. |
| N5 | 1014- 1044 | 57 | 56 | 49 | 57 | Intermittent truck, car and van movements around adjacent yard and weighbridge area dominant when present. Clamp truck and grab in building also significant. Near field correction applied to specific level. Offsite, none other than nearby crow calls and intermittent traffic passing outside entrance. |
| N6 | 1119- 1149 | 60 | 55 | 48 | 60 | Grab in building clearly audible to 1524. Sporadic car and van movements in building also audible. Several car movements and waste disposal activities at CAS audible at low level. Offsite, traffic movements on surrounding industrial estate roads dominant when present. Distant traffic also audible. Crow and starling calls frequently audible. Aircraft. |

Table 3.6Noise Monitoring Results June 2015

*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 Dust Monitoring

There are significant off-site sources of dust in the vicinity of the facility which is located in an industrial area of Sligo Port. In dry weather Greenstar dampen down access roads and the paved yards. Dust monitoring was carried out three times during the year in accordance with Schedule E of the Licence at four on-site locations (D1, D2, D3 and D4) as shown on Figure 3.1. The Licence requires that two of these monitoring events be carried out between May

and September. Dust monitoring was carried out in August, September/October and December. The results of the dust monitoring are presented in Table 3.7.

The dust deposition limit (350 mg/m²/day) was exceeded at two of the four monitoring locations (D3, 546 mg/m²/day and D4, 375 mg/m²/day) in September/October 2015. The limits were not exceeded at any location in either August or December 2015.

The sources of the dust at each gauge is not exclusively the Greenstar facility, which is located in a busy port surrounded by a variety of industrial activities, including an open coal storage facility to the west and south west, a petrol and oil distribution centre to the south, a fish meal storage warehouse to the east and an unvegetated partially restored local authority landfill to the south. The facility is also bounded to the north by the Port road leading to other industrial units further along the quay.

Locations D3 & D4 are at the southern corner and eastern corners of the facility. Given the low levels recorded at D1 and D2 it is not considered that the levels recorded at D3 and D4 are indicative of emissions from the Greenstar facility. It is considered that the elevated levels are due to off-site sources.

| | August 2015 mg/m²/day | September/ October 2015 mg/m²/day | December 2015 mg/m²/day | Deposition Limit mg/m²/day |
|----|--------------------------|-----------------------------------------|-------------------------------|-------------------------------|
| D1 | 211 | 246 | 182 | 350 |
| D2 | 138 | 181 | 78 | 350 |
| D3 | 165 | 546 | 57 | 350 |
| D4 | 179 | 375 | 58 | 350 |

| Table 3.7 | Dust Monitoring Results 2015 |
|-----------|------------------------------|
|-----------|------------------------------|

3.6 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 facility office on the 7th May 2015.

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 3.8. 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 facility.

Table 3.8Landfill Gas Monitoring Results 2015

| LANDFILL GAS MONITORING FORM | | | | BaselineAmbientx | | | | |
|-----------------------------------------|---------------|-----------------|-----------------|--------------------------|---------------------------------|---------|--|--|
| Site Name: Greenstar Ltd. – Sligo Depot | | | | Site Add | Site Address: Greenstar, Sligo. | | | |
| Operator : GREENSTAR | | | National | National Grid Reference: | | | | |
| Site Statu | s: Operationa | .1 | | Date : 07 | Date: 07/05/2015 | | | |
| Instrume | nt used: | N | ormal Analytic | al Range: | | | | |
| Gas Data | LMSx | 0 | - 100% | | | | | |
| Monitori | ng Personnel | : OCM | | Weather | Weather: Drizzle | | | |
| | | | overcast | overcast | | | | |
| | | | Results | 5 | | - | | |
| Sample | Borehole/ | CH ₄ | CO ₂ | O ₂ | Barometric | Comment | | |
| ID | spike/other | (% v/v) | (% v/v) | (% v/v) | Pressure (mb) | | | |
| MW1 | Borehole | 0.0 | 0.0 | 21.4 | 986 | | | |
| MW2 | Borehole | 0.0 | 0.0 | 21.2 | 986 | | | |
| OFFICE | - | 0.0 | 0.0 | 21.0 | 986 | | | |

4. SITE DEVELOPMENT WORKS

4.1 Engineering Works

The latest phase of works was carried out between 02/10/15 and 20/11/15 by Donlon Civil Engineering, included;

- Diversion of existing storm water arising from the South East Yard, from Garavogue estuary to existing foul sewer
- Installation of attenuation tank
- Installation of pumping system from attenuation tank
- Diversion of roof rainwater to stormwater system

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.

| Table 4.1 | Estimates of Resources Used On-Site 2015, 2014 & 2013 | |
|-----------|-------------------------------------------------------|--|
| | | |

| Resources | Quantities 2015 | Quantities 2014 | Quantities 2013 |
|------------------------|-----------------|-----------------|-----------------|
| Vehicle Diesel | 126,698 Litres | 134,332 Litres | 129,152 Litres |
| Diesel (green) | 18,900 Litres | 18,000 Litres | 19,800 Litres |
| Electricity | 103,945 Units | 117,681 Units | 87,018 Units |
| Hydraulic & Engine Oil | 600 litres | 400 litres | 600 litres |

5. WASTE RECEIVED AND CONSIGNED 2015

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 2015 is presented in the PRTR submission in Appendix 1.

The total quantity of waste received was 23,550 tonnes and the total amount consigned was 25,433 tonnes. For comparative purposes the amounts of waste received and consigned from 2003 to 2015 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 1882.89 tonnes and was due to the waste remaining on-site at the end of 2014.

| EWC | Description | Waste In | Waste Out |
|----------|----------------------------------------------|----------------|-----------|
| 02 07 05 | Interceptor Sludge | 333.38 | 271.2 |
| 030199 | Chip/Grit | | |
| 15 01 01 | Cardboard Packaging | 1135.32 | 1,103.04 |
| 15 01 02 | Plastic Packaging | 532.138 | 112.931 |
| 150103 | Wooden Packaging | | 11.38 |
| 15 01 04 | Metallic Packaging | 23.25 | 8.68 |
| 15 01 05 | Tetrapak | 13.47 | |
| 15 01 06 | Mixed Packaging | 1,974.23 | 2321.58 |
| 15 01 07 | Glass Packaging | 13.495 | 4.82 |
| 16 03 06 | Silver Strips | 9.82 | 6.62 |
| 160601 | Battery | | |
| 17 01 07 | Concrete, Bricks, Tiles & Ceramics | | 125.72 |
| 17 02 03 | Plastic | 78.94 | |
| 17 09 04 | Mixed C&D | 15.22 | |
| 19 08 02 | Waste from Desanding | 5.72 | |
| 19 12 07 | Wood other | 0.24 | |
| 19 12 09 | minerals | 48.49 | |
| 191210 | Solid Recovered Fuel (SRF) | 9.48 | |
| 19 12 12 | Other Wastes | 11.64 | 79.58 |
| 20 01 01 | Paper & Cardboard | 338.905 | 190.14 |
| 20 01 02 | Glass Municipal | 132.67 | 152.68 |
| 20 01 08 | Biodegradable Kitchen & Canteen Waste Wastes | 192.692 | 48.02 |
| 20 01 11 | Textiles | | 14.62 |
| 200133 | Haz Battery | | 1.68 |
| 200135 | REC Electronics & Electrics | 118.92 | 197.9 |
| 20 01 38 | Wood from municipal sources | 114.66 | 18.04 |
| 20 01 39 | Plastic from municipal sources | 26.532 | |
| 20 01 40 | Metal from municipal sources | 33.86 | 37.02 |
| 20 02 01 | Biodegradable garden & park waste | 8.84 | 1.08 |
| 20.03.01 | Mixed Residual Waste from mechanical | | |
| 20 03 01 | treatment | 9,144.52 | 19,696.5 |
| 200303 | C&I Dry Mixed | 304.34 | |
| 20 03 07 | Bulky Waste | 8,929.4 | 1,030.52 |
| | | 33 55 0 | |
| | Total Accepted | 25,550 | 25.422 |
| | Total Consigned | | 25,433 |
| | Recovery | | 8,470.32 |
| | Disposal | | 16,962.68 |
| | Recovery Rate | | 33.3% |

| EWC | Description | Waste In | Waste Out |
|----------|----------------------------------------------|----------|-----------|
| 02 07 05 | Interceptor Sludge | 562.22 | 559.48 |
| 030199 | Chip/Grit | 0.18 | |
| 15 01 01 | Cardboard Packaging | 804.74 | 1,110.84 |
| 15 01 02 | Plastic Packaging | 291.62 | 195.3 |
| 150103 | Wooden Packaging | 1.28 | |
| 15 01 04 | Metallic Packaging | 37.95 | 12.94 |
| 15 01 05 | Tetrapak | 12.86 | |
| 15 01 06 | Mixed Packaging | 2,961.93 | 2,697.18 |
| 15 01 07 | Glass Packaging | 65.87 | 98.26 |
| 16 03 06 | Silver Strips | 27.52 | 27.52 |
| 160601 | Battery | | 0.63 |
| 17 02 03 | Plastic | 53.05 | |
| 170802 | Plasterboard | 0.36 | |
| 17 09 04 | Mixed C&D | 78.08 | 30.62 |
| 19 08 02 | Waste from Desanding | 11.52 | |
| 191201 | Paper & Cardboard Residue | 0.36 | |
| 19 12 07 | Wood other | 20.46 | 6.54 |
| 19 12 09 | minerals | 101.49 | 29.06 |
| 191210 | Solid Recovered Fuel (SRF) | 23.12 | |
| 19 12 12 | Other Wastes | 21.60 | 2,254.88 |
| 20 01 01 | Paper & Cardboard | 340.10 | 200.04 |
| 20 01 02 | Glass Municipal | 88.46 | 50.87 |
| 20 01 08 | Biodegradable Kitchen & Canteen Waste Wastes | 261.06 | 108.04 |
| 20 01 11 | Textiles | 3.80 | 7.66 |
| 200133 | Haz Battery | | 0.71 |
| 200135 | REC Electronics & Electrics | 188.36 | 174.20 |
| 20 01 38 | Wood from municipal sources | 144 80 | 37 74 |
| 20.01.39 | Plastic from municipal sources | 38 79 | 37.71 |
| 20 01 40 | Metal from municipal sources | 53.16 | 45.68 |
| 20 02 01 | Biodegradable garden & park waste | 9 44 | 12.50 |
| 20 02 01 | Mixed Residual Waste from mechanical | 2000 | 12.00 |
| 20 03 01 | treatment | 3,373.16 | 9,628.77 |
| 200303 | C&I Dry Mixed | 341.48 | 133.68 |
| 20 03 07 | Bulky Waste | 8,249.92 | 529.98 |
| | | | |
| | Total Accepted | 18,169 | |
| | Total Consigned | | 17.953.2 |
| | Recovery | | 12,020.29 |
| | Disposal | | 5,932.83 |
| | Recovery Rate | | 66.9% |

| 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 | |

Table 5.3Total Tonnages Received and Consigned in 2003-2015

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

There was one minor environmental incident during the reporting period which related to an exceedance of the dust deposition limit. There were no other incidents at the facility as defined by the Licence.

The dust deposition limit (350 mg/m²/day) was exceeded at two of the four monitoring locations (D3, 546 mg/m²/day and D4, 375 mg/m²/day) in September/October 2015. The limits were not exceeded at any location in either August or December 2015. It is considered that the dust source was off site rather than an emission associated with site activities. The exceedance was reported to the Agency in accordance with Condition 3.3 of the Licence.

6.2 Register of Complaints

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

7. ENVIRONMENTAL DEVELOPMENT

7.1 Environmental Management Programme Report

Greenstar 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 Waste Licence Conditions. Greenstar 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 4th July 2013. The next IMS surveillance audit is due in June 2016.

As part of this IMS, Greenstar 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 2015 (Table 7.1), as well as the proposed Objectives and Targets for 2016 (Table 7.2) are presented below.

| Name: | Barry Gallagher |
|-------|-----------------|
|-------|-----------------|

Responsibility: Operations Manager; overall management of the site, responsible for management of all fleet activities

Experience: 23 years experience. N.C.B.S

Name: Anthony Lynch

Responsibility: Yard Foreman, management of baler, pickers, forklift driver and yard cleaner

Experience: 12 years

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

Claire McMahon did a First Aid course and the Materials Recovery Facility staff underwent Fire Safety training in 2015.

7.2 Environmental Management Programme Proposal

7.2.1 Schedule of Objectives 2015

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

7.2.2 Schedule of Objectives 2016

The schedule of targets and objectives for 2016 are presented in Table 7.2.

| No. | Objective | Target | Timescale | Responsibility | Status |
|-----|-------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|------------------------|---------------------------------------------------------------------------------|
| 1 | Infrastructural Development – Hardstanding and drainage | Investigate the costs and develop SEW proposals to concrete the empty wheelie bin storage area and also to raise the floor at the southern section of the MRF building to come into line with the newer floor at the northern portion of the building. Complete integrity testing of all pipelines on site. | Q3-Q4 2015 | Site Management/EHS | Integrety testing comlpeted April 2015 and MRf floor leveling Jan 2015 |
| 2 | Reduce energy consumption, provide energy awareness training to employees and track energy usage on site. | Tenders will be sought to review the current lighting system and introduce a lighting system with lower energy demands. | Q2 2015 | Site Management/EHS | Ongoing |
| 3 | Odour Impacts | Compile an Odour Management Plan for the facility and include it on the training matrix | Q2 – Q3 2015 | Site Management/EHS | Completed |
| 4 | Development and adoption of Fire Prevention Procedure at the facility and review of Emergency Response Plan | Additional training for site staff required | Q2 2015 | Site Management/EHS | ERP updated |
| 5 | Install new Fire Detection (Aspiration) System | Reduce risk of fire and enable early detection | Q2 2015 | Site Management/EHS | 01/08/2015 |
| 6 | Develop and maintain traffic management plan at the facility | Review of all on-site traffic management | Q2/Q3 2015 | Site Management/EHS | On going, site specific PM plans currently under review |
| 7 | Environmental Training of Facility Staff | Update training presentation and ensure training of key managerial staff | Q2/Q3 2015 | Site Management/EHS | Fire training completed for MRF staff - April 2015 |
| 8 | Document a Preventative Maintenance (PM) plan for the inspection and cleaning of plant & equipment wrt fire | Incorporate into existing Site Inspection Database (EF-10A) and site specific PM plans | Q2-Q3 | Site Management/EHS | On going, site specific PM plans currently under review |
| 9 | Document PM plan for all hardstand and drainage infrastructure on site | Incorporate into existing Site Inspection Database (EF-10A) | Q2-Q3 | Site Management/EHS | Completed |
| 10 | Review EWC codes in active use group wide and implement recommendations at each site | Review EWC codes with Finance/WIMS & advise changes to site management | Q2-Q3 | EHS/Finance/WIMS | Completed |

Table 7.1Schedule of Objective and Targets 2015

Table 7.2Schedule of Objective and Targets 2016

| No. | Objective | Target | Timescale | Responsibility |
|-----|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-----------|---------------------|
| | Increase awareness of | | | |
| | Odour Management on site | Specify Odour detection in Site Inspection Database (EF-10A) | | |
| 1 | group wide | on a daily basis and generate actions as appropriate | Q1-Q2 | Site Management/EHS |
| 2 | Waste storage practices | Review waste storage practices on each site to ensure that they are inline with licence conditions, fire prevention and insurance recommendations | Q2 | Site Management/EHS |
| | | Review the Emergency Response Pack on each site and ensure that | | |
| | Emergency response procedures | all information & equipment required in case of an emergency is | | |
| 3 | - ER pack update | available. Confirm that relevant staff training adequately addresses. | Q2 | Site Management/EHS |
| | CRAMP, ELRA & Financial | | | |
| 4 | Provision | CRAMP, ELRA & Financial Provision to be reviewed | Q2/Q3 | EHS team |
| | Waste acceptance, classification | EWC training for all weighbridge ops. Centralisation of all licences & | | |
| 5 | & records | permits inc NWCPs for hauliers. | Q2/Q3 | EHS team |

7.3 Communications Programme

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

Records available for public inspection on-site include:-

- Environmental, 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.

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 Greenstar are required to submit information annually to the Agency. A copy of the information submitted to the Agency via the web-based data reporting system is included in Appendix 1.

APPENDIX 1

European Pollutant Release and Transfer Register

Environmental Protection Agency

| PRTR# : W0058 | Facility Name : Starrus Eco Holdings Limited (Sligo) | Filename : W0058_2015.xls | Return Year : 2015 |

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Guidance to completing the PRTR workbook

PRTR Returns Workbook

| REFERENCE YEAR | 2015 |
|----------------------------------------------|--------------------------------------|
| FACILITY IDENTIFICATION | |
| Parent Company Name | Starrus Eco Holdings Limited |
| Facility Name | Starrus Eco Holdings Limited (Sligo) |
| PRTR Identification Number | W0058 |
| Licence Number | W0058-01 |
| PRTR Identification Number Licence Number | W0058 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 | Malcolm Dowling |
| AER Returns Contact Email Address | malcolm.dowling@greenstar.ie |
| AER Returns Contact Position | Group Compliance Manager |
| AER Returns Contact Telephone Number | 012947976 |
| AER Returns Contact Mobile Phone Number | |
| AER Returns Contact Fax Number | |
| Production Volume | 0.0 |
| Production Volume Units | |
| Number of Installations | 0 |
| Number of Operating Hours in Year | 0 |
| Number of Employees | 0 |
| User Feedback/Comments | Waste water discharge improved between 20013 and 2014 reflected I |
| | reduction in thelevels of COD, BOD, FOG, TSS and Mineral Oil. |
| | |
| | |
| 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 |
| | |

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

This question is only applicable if you are an IPPC or Quarry site

4.1 RELEASES TO AIR

Link to previous years emissions data

| PRTR# : W0058 | Facility Name : Starrus Eco Holdings Limited (Sligo) | Filename : W0058_2015.xls | Return Year : 2015 |

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SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

| RELEASES TO AIR | | | Please enter all quantities in this section in KGs | | | | | | |
|-----------------|------|--------|----------------------------------------------------|----------------------------|------------------|-------------------|-----|------------------------|----------------------|
| POLLUTANT | | METHOD | | | | QUANTITY | | | |
| | | | | Method Used | | | | | |
| No. Annex II | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | | A (Accidental) KG/Year | F (Fugitive) KG/Year |
| | | | | | 0.0 | 1 | 0.0 | 0.0 | <u>)</u> 0. |

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

| SECTION B : REMAINING PRTR POLLUTANT | S DELEASES TO AIR | | | | Please enter all quantities | in this section in KG | | | |
|--------------------------------------|----------------------|-------|-------------|-------------------------------------------|-----------------------------|-----------------------|-----|------------------------|----------------------|
| PO | LUTANT | | MET | THOD | Please enter all quantities | in this section in Re | 2 | QUANTITY | |
| No. Annex II | Name | M/C/E | Method Code | Method Used 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 quantities in this section in KGs | | | | | | |
|-----------------|------|-------------|----------------------------------------------------|----------------------------|------------------|-------------------|-----------------------|-----------------------|--|
| POLLUTANT | | | | METHOD | QUANTITY | | | | |
| | | Method Used | | | | | | | |
| Pollutant No. | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Yea | r F (Fugitive) KG/Yea | |
| | | | | | 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 Land | Additional Data Requested from Landfill operators | | | | | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|-------|-------------|----------------|----------------------------|---------------------------------------|--|--|
| For the purposes of the National Inventory on Greenhouse Gases, landfilli 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) KGyr for Section A: Sector specific PRTR pollutants above. Please complete the table below: | | | | | | | | |
| Landfill: | Starrus Eco Holdings Limited (Sligo) | | | | 1 | | | |
| Please enter summary data on the quantities of methane flared and / or utilised | | | Meth | od Used | | | | |
| - | T (T + N + N | | | Designation or | Facility Total Capacity m3 | 1 | | |
| | I (Iotal) kg/year | M/C/E | Method Code | Description | per nour | | | |
| I otal 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 | | | | | | i i i i i i i i i i i i i i i i i i i | | |
| A above) | 0.0 | | | | N/A | | | |

Link to previous years emissions data

4.2 RELEASES TO WATERS

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

| | RELEASES ID WATERS | | | | |
|--------------|--------------------|--|--|--|--|
| POLLUTANT | | | | | |
| | | | | | |
| No. Annex II | Name | | | | |
| | | | | | |

* Select a row by double-clicking on the Pollutant Name (Column B) th

SECTION B : REMAINING PRTR POLLUTANTS

| | RELEASES TO WATERS | | | | |
|--------------|--------------------|--|--|--|--|
| POLLUTANT | | | | | |
| No. Annex II | Name | | | | |
| | - | | | | |

* Select a row by double-clicking on the Pollutant Name (Column B) th

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

| | RELEASES TO WATERS | | | | |
|---------------|--------------------|--|--|--|--|
| POLLUTANT | | | | | |
| | | | | | |
| Pollutant No. | Name | | | | |
| | | | | | |

* Select a row by double-clicking on the Pollutant Name (Column B) th

| PRTR# : W0058 | Facility Name : Starrus Eco Holdings Limited (Sligo) | Filename : W0058_2015.xls | Return Year : 2015 |

| Data on am | Data on ambient monitoring of storm/surface water or groundwater, conducted as part of your licence requirements, should NOT | | | | | |
|------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------|-----|----------------------------|--------------------------|--|
| | | | | Please enter all quantitie | s in this section in KGs | |
| | | | | | | |
| | | Method Used | | | | |
| M/C/E | Method Code | Designation or Descripti | ion | Emission Point 1 | T (Total) KG/Year | |
| | | | | C | .0 0.0 | |

en click the delete button

| | | | Please enter all quantities | in this section in k | (Gs |
|-------|-------------|----------------------------|-----------------------------|----------------------|------------|
| | | | | | |
| | | Method Used | | | |
| M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | |
| | | | 0.0 | | 0.0 |

en click the delete button

| | | | Please enter all quantities | in this section in K | Gs |
|-------|-------------|----------------------------|-----------------------------|----------------------|-----|
| | | | | | |
| | | Method Used | | | |
| M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | |
| | | | 0.0 | | 0.0 |

en click the delete button

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be submitted under AER / PRTR Reporting as this only concerns Releases from your facility

| QUANTITY | | | | |
|------------------------|----------------------|--|--|--|
| A (Accidental) KG/Year | F (Fugitive) KG/Year | | | |
| 0.0 0 | | | | |

| QUANTITY | |
|------------------------|----------------------|
| A (Accidental) KG/Year | F (Fugitive) KG/Year |
| 0.0 | 0.0 |

| QUANTITY | |
|------------------------|----------------------|
| A (Accidental) KG/Year | F (Fugitive) KG/Year |
| 0.0 | 0.0 |

4.3 RELEASES TO WASTEWATER OR SEWER

Link to previous years emissions data

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SECTION A · PRTR POLULITANTS

| SECTION A. FRITEFOLLOTANTS | | | | | | | | | |
|----------------------------|---------------------------------------------------------------|---------|-------------|----------------------------|--------------------------|-----------------|---------------|------------------------|----------------------|
| | OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREAT | MENT OR | SEWER | | Please enter all quantit | ies in this see | ection in KGs | | |
| | 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 (Accidental) KG/Year | F (Fugitive) KG/Year |
| | | | | Calculated based on annual | | | | | |
| | | | | flow rate. Analysis is ISO | | | | | |
| 06 | Ammonia (NH3) | С | PER | accredited. | 0.01 | 845 | 0.01845 | 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 TREAT | | | SEWER | | Please enter all quantities in this section in KGs | | | |
|---------------------------------------------------------------|------------------------|-------|-------------|----------------------------|----------------------------------------------------|-------------------|------------------------|----------------------|
| | POLLUTANT | | METH | DD | QUANTITY | | | |
| | | | Me | thod 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 |
| | | | | Calculated based on annual | | | | |
| | | | | flow rate. Analysis is ISO | | | | |
| 238 | Ammonia (as N) | С | PER | accredited. | 0.01845 | 0.01845 | 0.0 | 0.0 |
| | | | | Calculated based on annual | | | | |
| | | | | flow rate. Analysis is ISO | | | | |
| 303 | BOD | С | PER | accredited. | 0.12 | 0.12 | 0.0 | 0.0 |
| | | | | Calculated based on annual | | | | |
| | | | | flow rate. Analysis is ISO | | | | |
| 306 | COD | С | PER | accredited. | 0.27 | 0.27 | 0.0 | 0.0 |
| | | | | Calculated based on annual | | | | |
| | | | | flow rate. Analysis is ISO | | | | |
| 308 | Detergents (as MBAS) | С | PER | accredited. | 0.033 | 0.033 | 0.0 | 0.0 |
| | | | | Calculated based on annual | | | | |
| | | | | flow rate. Analysis is ISO | | | | |
| 324 | Mineral oils | С | PER | accredited. | 0.0003 | 0.0003 | 0.0 | 0.0 |
| | | | | Calculated based on annual | | | | |
| | | | | flow rate. Analysis is ISO | | | | |
| 314 | Fats, Oils and Greases | С | PER | accredited. | 0.0003 | 0.0003 | 0.0 | 0.0 |
| | | | | Calculated based on annual | | | | |
| | | ~ | 050 | tiow rate. Analysis is ISO | | 0.00 | | |
| 240 | Suspenaea Solias | C | PER | accredited. | 0.62 | 0.62 | 0.0 | 0.0 |

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

4.4 RELEASES TO LAND

Link to previous years emissions data

SECTION A : PRTR POLLUTANTS

| | RELEAS | ES TO LAND |
|--------------|-----------|------------|
| | POLLUTANT | |
| | | |
| No. Annex II | Name | |
| | | |

* Select a row by double-clicking on the Pollutant Name (Column B

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

| | RELEASES TO LAND |
|---------------|------------------|
| PO | LLUTANT |
| | |
| Pollutant No. | Name |
| | |

* Select a row by double-clicking on the Pollutant Name (Column B

| PRTR# : W0058 | Facility Name : Starrus Eco Holdings Limited (Sligo) | Filename : W0058_2015.xls | Return Year

| | | | Please enter all quantities |
|-------|-------------|----------------------------|-----------------------------|
| | ME | THOD | |
| | | | |
| M/C/E | Method Code | Designation or Description | Emission Point 1 |
| | | | 0.0 |

) then click the delete button

| | | | Please enter all quantities i |
|-------|-------------|----------------------------|-------------------------------|
| | ME | THOD | |
| | | | |
| M/C/E | Method Code | Designation or Description | Emission Point 1 |
| | | | 0.0 |

) then click the delete button

07/04/2016 14:31

| in this section in KGs | |
|------------------------|------------------------|
| | QUANTITY |
| T (Total) KG/Year | A (Accidental) KG/Year |
| 0.0 | 0.0 |

| in this section in KGs | | | | | |
|------------------------|-------------------------|--|--|--|--|
| | QUANTITY | | | | |
| T (Total) KC/Voor | A (Assidental) KC (Veer | | | | |
| T (Total) KG/ fear | A (Accidental) KG/ real | | | | |
| 0.0 | 0.0 | | | | |

: 2015 |

| 5. ORSITE TREATMENT & OFFSITE TRANSFERS OF WASTE [PRTN#: W0058 [Facity Name : Duma Eco Holdings Limbed (Stgo)] Filename : W0058 _0015.xis [Patam Yaar : 2015] 07042016 14:33 | | | | | | | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|------------------|--------------------|------------------------------------------------------------|------------|------|---------------|-----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------|
| | | | Please enter | all quantities on this sheet in Tonnes | | | | | Haz Waste : Name and | | | |
| | | | Outratile | | | | | | Licence/Permit No of Next Destination Facility Nort | Haz Waste : Address of Next | Name and License / Permit No. and | |
| | | | (Tonnes per | | | | | | Haz Weste: 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) | | Waste | - | Method Used | - | Recover/Disposer | RecoverDisposer | ONLY) | (HAZARDOUS WASTE ONLY) |
| Tracefor Doctination | European Waste | Hazardour | | Description of Warts | Treatment | MCE | Method Llead | Location of | | | | |
| That and the best managements | | 110200-0003 | | Descriptor of Hare | Operation | more | and the offer | The second se | | | | · |
| Within the Country | 02 07 05 | No | 271.2 | sludges from on-site effluent treatment | R13 | м | Weighed | Offsite in Ireland | Envirogrind Ltd,env/143/wp4 | Pettigo,Donegal, Ireland | | |
| | | | | | | | | | | Milennium Business Park Balwoolin, Dubin 11 | | |
| Within the Country | 15 01 01 | No | 220.3 | paper and cardboard packaging | R13 | м | Weighed | Offsite in Ireland | Greenstar Limited ,W0183-01 | Ireland | | |
| Within the Country | 15 01 01 | No | 24.32 | paper and cardboard packaging | R13 | м | Weighed | Offsite in Ireland | Materia Environment, | ,Ireland | | |
| To Other Countries | 15 01 01 | No | 72.08 | paper and cardboard packaging | P12 | | Weighad | Abroad | Collmark LISA IRE/C190/11 | 200 Tamal Plaza,., California 05245, Lipited States | | |
| TO COMP COOLENES | 150101 | 140 | 72.00 | paper and cardoon o paceaging | | | Tragnes | PLICED | MLM Ltd (ACM Europe | | | |
| To Other Countries | 15 01 01 | No | 564.38 | paper and cardboard packaging | R13 | м | Weighed | Abroad | UK).,TFS Broker IRE/G021/11 | | | |
| To Other Countries | 15 01 01 | No | 98.0 | paper and cardboard packaging | D12 | | Weighad | Abroad | Mark Lydon Enterprises | Linited Kingdom | | |
| | | | | hater and an an an an an an an an an | | | | | | Baanhoekweg 4 ,3313 LA | | |
| | | | | | | | | | Peute Recycling, TFS Broker | "Netherlands,Netherlands,Net | | |
| To Other Countries | 15 01 01 | No | 123.96 | paper and cardboard packaging | R13 | м | Weighed | Abroad | IRE/G006/11 Leinster Environmental,WP | herlands Haggartstown,,Dundalk,Co | | |
| Within the Country | 15 01 02 | No | 104.711 | plastic packaging | R13 | м | Weighed | Offsite in Ireland | 2008/06 | Louth, Ireland | | |
| | | | | | | | | | | Cherrywood | | |
| Within the Country | 15 01 02 | No | 8.22 | plastic packaging | R13 | м | Weighed | Otfsite in Ireland | Agnail Ltd Broker,Sale | Cresent,88,Dublin,22,Ireland Carrowbrowne,Headford | | |
| Within the Country | 15 01 06 | No | 2285.64 | mixed packaging | R13 | м | Weighed | Offsite in Ireland | Barna Waste ,W0106-02 | Rd,Co Galway,., . Ireland Milennium Business Park | | |
| | | | | | | | | | | "Ballycoolin, Dublin 11, | | |
| within the Country | 15 01 06 | NO | 35.94 | mixed packaging | н13 | м | weighed | Utfsite in Ireland | Greenstar Limited ,W0183-01 | reland | | |
| Within the Country | 15.01.07 | No | 4.02 | olass packaging | B13 | м | Weinberd | Offsite in Ireland | Rehab Recycling Ltd. ,WPR | Ballymount Avenue Clondakin Dublin 22 Ireland | | |
| manna county | 150107 | 140 | 4.01 | Berra heruedu d | 1115 | | The grade | Chance in the land | | Oldbury | | |
| | | | | organic wastes other than those mentioned in | | | | | JBR Recovery | ands,B70 9BS,UNITED | | |
| To Other Countries | 16 03 06 | No | 6.62 | 16 03 05 | R4 | м | Weighed | Abroad | Ltd,EPR/BJ9878IQ | KINGDOM | | |
| | | | | other wastes (including mixtures of materials) | | | | | | | | |
| Within the Country | 19 12 12 | No | 79.58 | than those mentioned in 19 12 11 | R13 | м | Weighed | Offsite in Ireland | Limerick,W0082-02 | Dock Rd, "Limerick, "Ireland | | |
| | | | | | | | | | | Milennium Business Park Balwoolin, Dublin 11 | | |
| Within the Country | 20 01 01 | No | 32.92 | paper and cardboard | R13 | м | Weighed | Offsite in Ireland | Greenstar Limited ,W0183-01 | Ireland | | |
| Within the Country | 20 01 01 | No | 137.1 | paper and cardboard | R13 | м | Weighed | Offsite in Ireland | 03 | ow,Ireland | | |
| Within the Country | 20 01 01 | No | 20.12 | paper and cardboard | R13 | м | Weighed | Offsite in Ireland | Shred-It Ireland,. | Park,53,Dublin,12,Ireland Lawlesstown ,Clonmel ,Co. | | |
| Within the Country | 20.01.02 | | 100.0 | | 010 | | Weinberg | Official in Included | Charmel Marster MID 000 00 | Tipperary ,Co. Tipperary | | |
| within the Country | 200102 | NO | 100.9 | yas | HI3 | | wayned | Onsite in realid | Clother waste ,wP-008-02 | , recard | | |
| Within the Country | 20 01 02 | No | 43.24 | glass | R13 | м | Weighed | Offsite in Ireland | Rehab Recycling Ltd. ,WPR 004 | Ballymount Avenue ,Clondalkin,Dublin 22,Jreland | | |
| Within the Country | 20 01 08 | No | 48.02 | biodegradable kitchen and canteen waste | R3 | м | Weighed | Offsite in Ireland | Barna Waste .W0106-02 | Carrowbrowne,Headford Rd.Co Galway Ireland | | |
| Within the Country | | | 14.00 | testine . | Dia | | Walabard | Official in Included | Textile Recycling | Greenogue, Dublin | | |
| manna county | 200111 | 140 | 14.02 | batteries and accumulators included in 16 06 | 1115 | | The grade | Chance in the land | 20,0010014 | 2.4,., | | |
| | | | | batteries and accumulators containing these | | | | | | | KMK Metals, W0113- | |
| Within the Country | 20 01 33 | Yes | 1.68 | batteries discarded electrical and electronic equipment | R4 | м | Weighed | Offsite in Ireland | KMK Metals,W0113-03 | Tullamore,,Co Offaly,Ireland | 03,tullamore,-,-,offaly,ireland | tullamore,-,-,offaly,ireland |
| | | | | other than those mentioned in 20 01 21 and | | | | | | | | |
| Within the Country | 20 01 35 | Yes | 197.9 | and 20 01 23 containing hazardous components | R4 | м | Weighed | Offsite in Ireland | KMK Metals,W0113-03 | Tullamore,,Co Offaly,Ireland | KMK Metals, W0113- 03, tullamore, -, -, offaly, ireland | tullamore,,offaly,ireland |
| | | | | | | | | | | Donegal Road Pettico | | |
| Within the Country | 20 01 38 | No | 6.1 | wood other than that mentioned in 20 01 37 | B1 | м | Weighed | Offsite in Ireland | Envirogrind Ltd,env/143/wp4 | Pettigo,Donegal, Ireland | | |
| Within the Country Within the Country | 20 01 40 20 01 40 | No | 25.78 | metas metals | R4 R4 | M | Weighed | Offsite in Ireland | Clearcircle Metals Ltd, | ,Limerick,ireland | | |
| Within the Country | 20 01 40 | No | 1.42 | metals | B4 | м | Weighed | Offsite in Ireland | Clearway,WTF DC 09-0013- 01 | Deep Water QuayFinisklinIreland | | |
| Within the Country | 20.02.01 | No | 1.00 | biodegradable wante | P2 | M | Weiched | Offeite in Ireland | Barra Waste W0105 00 | Carrowbrowne,Headford Rd Co Galway Ireland | | |
| within the Country | 20 32 01 | | 7.08 | urung-malate milane | | | | Cristie in reland | Carrier Walster, WO100-02 | no,oo Garway,., . = mahd | | |
| Within the Country | 20 03 01 | No | 6389.19 | mixed municipal waste | D5 | м | Weighed | Otfsite in Ireland | Rathroeen Landfill,W0067-02 | Kilala Road,Ballina,-,- jreland Carranstown,Duleek,MeathIr | | |
| Within the Country | 20 03 01 | No | 7457.89 | mixed municipal waste | R1 | м | Weighed | Offsite in Ireland | Indaver,W0167-02 Greenstar Bray Depot Woolfa | eland Fassaroe Bray Wickley Winte | | |
| Within the Country | 20 03 07 | No | 781.96 | buky waste | R13 | м | Weighed | Offsite in Ireland | 03 | ow,ireland | | |
| | | | | | | | | | | Donegal Road Pettigo | | |
| Within the Country | 15 01 03 | No | 11.38 | wooden packaging | R3 | м | Weighed | Offsite in Ireland | Envirogrind Ltd,env/143/wp4 | ,Pettigo,Donegal, Ireland | | |
| | | | | mixture of concrete, bricks, tiles and ceramics | | | | | Harringtons Quarry,COR-SO- | Abbeytown, Ballysodare, Irel | | |
| Within the Country Within the Country | 20 01 02 | No | 125.72 | glass | R13 | M | Weighed | Offsite in Ireland | Rehab Glassco Recycling, | Ireland | | |
| Within the Country | 20 01 02 | No | 3.9 | glass | R13 | м | Weighed | Otfsite in Ireland | Rehab Recycle Cork, | ,Cork,.,Ireland Arigna Carrick-On- | | |
| Within the Country | 20.01.28 | No | 11.04 | wood other than that mentioned in 20.01.07 | P1 | м | Weighed | Offeite in Ireland | Arigon Eurok Ltd. WMD + 400 | Shannon ,Co. Roscommon ,. | | |
| To Other Countries | 20 03 01 | No | 1724.82 | mixed municipal waste | R1 | M | Weighed | Abroad | Attero BV,. | Netherlands | | |
| Within the Country | 20 03 01 | No | 796.8 | mixed municipal waste | R13 | м | Weighed | Offsite in Ireland | Barna Waste ,W0106-02 | Carrowbrowne,Headford Rd,Co Galway,., . Ireland | | |
| Within the Country | 20 03 01 | No | 2779.66 | mixed municipal waste | D5 | м | Weighed | Offsite in Ireland | Knockharley Landfill, Greenstar MPE | Navan, Meath, Ireland | | |
| Within the Country | 20 03 01 | No | 548.18 | mixed municipal waste | R13 | м | Weighed | Offsite in Ireland | Limerick,W0082-02 | Dock Rd, "Limerick, "Ireland | | |
| Within the Country | 20 03 07 | No | 48.6 | buky waste | D5 | м | Weighed | Offsite in Ireland | Rathroeen Landfill,W0067-02 | Kilala Road,Ballina,-,-,ireland | | |
| Within the Country | 20 03 07 | No | 117.92 | buky waste | B13 | м | Weighed | Offsite in Ireland | Indaver.W0167-02 | Carranstown, Duleek, Meath, , Ir eland | | |
| Within the Country | 20 03 07 | No | 82.04 | buky waste | D5 | м | Weighed | Offsite in Ireland | Knockharley Landfill. | Navan, Meath, Ireland | | |
| Within the Country | 15 01 04 | No | 3.0 | metallic packaging | R4 | м | Weighed | Offsite in Ireland | 01 | Quay,FinisklinIreland | | |
| Within the Country | 15 01 04 | No | 5.68 | metallic packaging | B4 | м | Weighed | Offsite in Ireland | Clearway,WTF DC 09-0013- 01 | Deep Water Quay,Finisklin,Ireland | | |
| | | * Select a row b | by double-clicking | the Description of Waste then click the delete button | | | | | | | | |

Link to previous years waste data Link to previous years waste summary data & percentage change Link to Waste Guidance

APPENDIX 2

Procedures List



| greenstar setting the standard | | | | Proceaure Listing |
|-----------------------------------|---------------|------------------------------------|-------------|-------------------|
| Doc. No.: Control | | Revision No.: As Shown | Issue Date: | As Shown |
| Approved By: | Malcolm Dow | ling – Group Environmental Manager | Page 1 of 2 | |
| | Oliver Callan | – Group H&S Manager | | |

| Integrated Procedures - IP | | | | | |
|----------------------------|-----------------------------------------------------------|------------------|--|--|--|
| IP-01 | Document & Record Control Procedure | Rev 01, 28/04/14 | | | |
| IP-02 | Health & Safety Risk Assessment Procedure | Rev 01, 28/04/14 | | | |
| IP-03 | Environmental Aspects & Impacts Procedure | Rev 01, 28/04/14 | | | |
| IP-04 | Legal & Regulatory Requirements Procedure | Rev 01, 28/04/14 | | | |
| IP-05 | Objectives, Targets & Management Programmes Procedure | Rev 01, 28/04/14 | | | |
| IP-06 | Competence, Training & Awareness Procedure | Rev 01, 28/04/14 | | | |
| IP-07 | Communication & Consultation Procedure | Rev 01, 28/04/14 | | | |
| IP-08 | Monitoring, Measurement & Improvement Procedure | Rev 01, 28/04/14 | | | |
| IP-09 | Evaluation of Compliance Procedure | Rev 01, 28/04/14 | | | |
| IP-10 | Non Conformances, Corrective/Preventive Actions Procedure | Rev 01, 28/04/14 | | | |
| IP-11 | Internal Audit Procedure | Rev 01, 28/04/14 | | | |
| IP-12 | Management Review Procedure | Rev 01, 28/04/14 | | | |
| IP-13 | Control of Contractors/Visitors Procedure | Rev 01, 28/04/14 | | | |
| IP-14 | Health & Safety & Environmental Monitoring | Rev 01, 28/04/14 | | | |
| IP-15 | Emergency Preparedness & Response Procedure | Rev 01, 28/04/14 | | | |
| IP-16 | Fire Prevention Procedure | Rev 01, 28/04/14 | | | |
| IP-17 | Bin Washing Procedure | Rev 01, 28/04/14 | | | |

| Safety Procedures - SP | | | | | |
|------------------------|------------------------------------------------------------------------------|------------------|--|--|--|
| SP-01 | Permit to Work Procedure | Rev 01, 28/04/14 | | | |
| SP-02 | Maintenance & Calibration Procedure | Rev 01, 28/04/14 | | | |
| SP-03 | Mobile Plant Procedure | Rev 01, 28/04/14 | | | |
| SP-04 | Fork Truck Procedure | Rev 01, 28/04/14 | | | |
| SP-05 | Operation of Fixed Plant Procedure | Rev 01, 28/04/14 | | | |
| SP-06 | Lock Out / Tag Out Procedure | Rev 01, 28/04/14 | | | |
| SP-07 | Health & Safety Notification Procedure | Rev 01, 28/04/14 | | | |
| SP-08 | MSW Shredder routine Maintenance & Clearing of Blockages Procedure (SCGT) | Rev 01, 28/04/14 | | | |
| SP-09 | Weighbridge & Tipping Procedure (SCGT) | Rev 01, 28/04/14 | | | |
| SP-10 | Cleaning of Washing Bay (Greenogue) | Rev 01, 28/04/14 | | | |



| greenstar setting the standard | | | | Procedure Listing |
|-----------------------------------|---------------|------------------------------------|-------------|-------------------|
| Doc. No.: Control | | Revision No.: As Shown | Issue Date: | As Shown |
| Approved By: | Malcolm Dow | ling – Group Environmental Manager | Page 2 of 2 | |
| | Oliver Callan | – Group H&S Manager | | |

| Environmental Procedures - EP | | | | | |
|-------------------------------|-----------------------------------------------|------------------|--|--|--|
| EP-01 | Office Waste & Energy Management Procedure | Rev 01, 28/04/14 | | | |
| EP-02 | Decommissioning and Aftercare Procedure | Rev 01, 28/04/14 | | | |
| EP-03 | Environment Communications Procedure | Rev 01, 28/04/14 | | | |
| EP-04 | Waste Permits & Licences Procedure | Rev 01, 28/04/14 | | | |
| EP-05 | Waste Acceptance Procedure | Rev 01, 28/04/14 | | | |
| EP-06 | Unacceptable Waste Procedure | Rev 01, 28/04/14 | | | |
| EP-07 | Waste & Material Storage Procedure | Rev 01, 28/04/14 | | | |
| EP-08 | Waste Processing Procedure | Rev 01, 28/04/14 | | | |
| EP-09 | Site Infrastructure Procedure | Rev 01, 28/04/14 | | | |
| EP-10 | Nuisance Management Procedure (Site Specific) | (Site Specific) | | | |
| | | Rev 01, 28/04/14 | | | |
| EP-11 | Civic Amenity Site Procedure | Rev 01, 28/04/14 | | | |