



Mr. Damien Masterson,
Office of Environmental Enforcement,
South East Region,
Environmental Protection Agency,
P.O. Box 3000,
Johnstown Castle Estate,
Co. Wexford

28th March 2013

RE: Annual Environmental Report - Greenstar Ltd. - Gorey, Co. Wexford – WL No. W0220-01

Dear Mr. Masterson,

Please find enclosed, on behalf of Greenstar Ltd., an original and 2 no. copies of the Annual Environmental Report for the above referenced facility for the year of 2012.

If you have any queries, please call me.

Yours sincerely,

Michael Watson

1204815/BS/CW

Encl

CC: Ms. Malcolm Dowling, Greenstar Ltd.,
Mr. Denis Mullally, Greenstar Ltd.

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Rutland Street
Cork



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ANNUAL ENVIRONMENTAL REPORT

GREENSTAR LIMITED

GOREY BUSINESS PARK, GOREY

COUNTY WEXFORD

LICENCE NO. W0220-01

JANUARY 2012 – DECEMBER 2012

Prepared For: -

Greenstar Ltd.,
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Prepared By: -

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26 March 2013

| Project | Annual Environmental Report 2012 | | | |
|-----------|----------------------------------|--------|-----------------------|------------------------|
| Client | Greenstar Ltd. W0220-01 | | | |
| Report No | Date | Status | Prepared By | Reviewed By |
| 0481505 | 20/03/2013 | Draft | Michael Watson MA. | Mr Barry Sexton MSc |
| 0481505 | 20/03/2013 | Final | Michael Watson MA. | Mr Barry Sexton MSc |
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TABLE OF CONTENTS

| | <u>PAGE</u> |
|--|-------------|
| 1. INTRODUCTION | 1 |
| 2. SITE DESCRIPTION | 2 |
| 2.1 SITE LOCATION & DESCRIPTION..... | 2 |
| 2.2 WASTE MANAGEMENT ACTIVITIES | 2 |
| 2.2.1 <i>Waste Types & Processes</i> | 2 |
| 2.2.2 <i>Plant List</i> | 3 |
| 3. EMISSION MONITORING..... | 4 |
| 3.1 WASTE WATER PROGRAMME | 4 |
| 3.2 GROUND WATER MONITORING | 5 |
| 3.3 NOISE MONITORING | 7 |
| 4. SITE DEVELOPMENT WORKS | 9 |
| 4.1 ENGINEERING WORKS | 9 |
| 4.2 ENERGY EFFICIENCY | 9 |
| 4.3 TANK AND PIPELINE INTEGRITY TESTING..... | 9 |
| 5. WASTE RECEIVED AND CONSIGNED FROM THE FACILITY | 10 |
| 6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS..... | 13 |
| 6.1 INCIDENTS | 13 |
| 6.2 REGISTER OF COMPLAINTS | 13 |
| 7. ENVIRONMENTAL DEVELOPMENT & CONTROL..... | 14 |
| 7.1 ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT..... | 14 |
| 7.1.1 <i>Schedule of Objectives 2012</i> | 14 |
| 7.1.2 <i>Schedule of Objectives 2013</i> | 15 |
| 7.2 MANAGEMENT STRUCTURE..... | 15 |
| 7.3 COMMUNICATIONS PROGRAMME | 18 |
| 7.4 NUISANCE CONTROL | 18 |
| 7.5 WATER DEMAND..... | 18 |
| 7.6 WASTE GENERATED ON-SITE | 19 |
| 7.7 POLLUTION EMISSION REGISTER | 19 |
| 7.8 FINANCIAL PROVISION & MEASURES TO MINIMISE POTENTIAL ENVIRONMENTAL DAMAGE..... | 19 |
| 8. OTHER REPORTS..... | 20 |
| APPENDIX 1 - Bund Report | |
| APPENDIX 2 - European Pollutant Release and Transfer Register | |
| APPENDIX 3 - Procedures List | |

1. INTRODUCTION

This is the 2012 Annual Environmental Report (AER) for the Greenstar Ltd. (Greenstar), Materials Recovery & Transfer facility (MRF) at Gorey Business Park, Ramstown, Gorey, County Wexford. It covers the period from the 1st January 2012 to the 31st December 2012.

The content is based on Schedule F of the Waste Licence (Reg. No. W0220-01) 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 & Description

The facility is located at Gorey Business Park, Ramstown Lower, Gorey, Co Wexford. The site encompasses 3,040 m² (0.7 acres) and is accessed by an internal road serving the Business Park.

There are two interconnected steel portal frame buildings, which encompass approximately 1,000 m² and comprise the waste transfer building. The remaining area of the site comprises open yard areas which are paved with concrete and a new weighbridge close to the facility entrance which was installed during the reporting period. An office is maintained adjacent to the yard.

2.2 Waste Management Activities

The licence allows Greenstar to accept and process up to 30,000 tonnes of waste per annum, comprising commercial/industrial non-hazardous waste, household waste, and construction and demolition wastes. All waste processing takes place inside the waste transfer building, as specified in Condition 8.1 of the licence.

2.2.1 Waste Types & Processes

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

- Household Waste (18,000 tonnes),
- Commercial & Industrial and Construction & Demolition (12,000 tonnes).

The key processes carried out at the facility include: -

- Segregation of C&I into different waste streams (paper, cardboard, glass, metal, green waste and wood) for further recovery at an appropriate facility
- Segregation of C&D into clean & dirty waste streams for further recovery purposes,
- Bulking up of domestic wastes (mixed municipal waste & dry mixed recyclables) for further recovery or disposal at an appropriate off-site facility.

Household Waste

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

Commercial and Industrial Waste

Both mixed and segregated commercial waste is collected from commercial outlets. Commercial waste rich in recyclables (paper, cardboard, glass, metal, green waste and wood) is delivered to the facility both by permitted third party hauliers and by Greenstar vehicles. Plastic, card and paper are stored prior to transfer to a suitable permitted/licensed off-site recycling outlet. Biodegradable wastes suitable for composting which is accepted at the facility are sent to an offsite composting facility. The remaining non-recyclable material is bulked and sent to appropriately licensed landfills.

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

2.2.2 Plant List

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

Table 2.1 Existing Plant

| No. | Plant | Model | Operational Capacity |
|------------|---------------|--------------|-----------------------------|
| 1 | Weighbridge | Avery Berkel | - |
| 1 | Track Machine | CAT 321 LC | 40t/hr |
| 1 | Loader | Volvo L70D | 70 t/hr |

3. EMISSION MONITORING

Greenstar implements the environmental monitoring programme specified in the Licence to assess the significance of emissions from site activities. The programme specified in the licence includes groundwater, surface water (discharge from holding tank to percolation area), waste water removed off-site and noise monitoring. Surface water runoff is now directed to wastewater and has been incorporated into the waste water monitoring programme as agreed with the Agency. The monitoring locations are shown on Figure 3.1.

The monitoring programme is carried out in accordance with the frequency specified in the Licence. The monitoring results are submitted to the Agency at quarterly intervals. An overview of the monitoring results is presented in this Section, with summary tables included.

3.1 Waste Water Programme

Waste water monitoring is carried out quarterly and the results are included on Table 3.1.

Table 3.1 Waste Water Results 2012

| Parameter | Units | Q1 '12 | Q2 '12 | Q3 '12 | Q4 '12 |
|------------------|----------|---------|--------|--------|--------|
| pH | pH Units | 6.93 | 6.30 | 6.46 | 7.03 |
| Conductivity | mS/cm | 12.070 | 2.200 | 1.385 | 0.785 |
| COD | mg/l | 6,480 | 2,070 | 1,299 | 491 |
| Total Ammonia | mg/l | 283.07 | 39.34 | 13.64 | 4.71 |
| Chloride | mg/l | 2220.9 | 301 | 251 | 93.1 |
| Mercury | mg/l | <0.001 | - | - | 3.4 |
| Arsenic | mg/l | 0.0032 | - | - | <0.5 |
| Boron | mg/l | 0.669 | - | - | 3.0 |
| Cadmium | mg/l | <0.0005 | - | - | 11 |
| Chromium | mg/l | 0.0145 | - | - | <1 |
| Copper | mg/l | 0.009 | - | - | 7 |
| Nickel | mg/l | 0.049 | - | - | <3 |
| Selenium | mg/l | <0.003 | - | - | 7.03 |
| Zinc | mg/l | 0.09 | - | - | - |
| VOC | µg/l | n.d. | - | - | n.d. |
| Toluene | µg/l | 18 | - | - | - |
| Trimethylbenzene | µg/l | 5 | - | - | - |
| SVOC | µg/l | n.d. | - | - | n.d. |
| 4-Methylphenol | µg/l | 31 | - | - | - |

n.d. – Not Detected

There was significant decline in the levels of electrical conductivity, COD, ammonia and chloride in the waste water between Q-1 and Q-4 2012. All waste water is transported off site for treatment.

3.2 Ground Water Monitoring

Schedule C of the Licence requires annual groundwater monitoring. There is an on-site well (MW-1) slightly up-gradient of site activity, which was installed to provide both a potable and process water supply. Testing of the well indicated that it was not suitable for potable use and it is not used for this purpose, but is used for monitoring purposes. The well location is shown on Figure 3.1. Monitoring was carried out in 22nd November 2012 and a summary of the results is included on Table 3.2.

There are no emission limits or trigger levels set in the Licence. The Agency requested that groundwater trigger levels be prepared for this monitoring well. These were prepared and were submitted to the Agency for their approval on the 30th June 2008. The proposed trigger levels were not exceeded. The results are compared to the Interim Guideline Values (IGV) on groundwater quality published by the Agency. The Table also includes the Groundwater Regulations Threshold Value (GTV), which were introduced in 2010 (S.I. 9 of 2010).

The IGV represent typical background or unpolluted conditions; however levels higher than the IGV may occur naturally depending on the local geological and hydrogeological conditions. While the GTV are more appropriate for large scale abstraction wells used for potable supply, they can be used to assess the significance of contamination where present in non potable groundwater supplies. Because GTVs have not been established for all of the parameters monitored, the relevant IGV was used for comparative purposes.

Ammonia, mercury, arsenic, cadmium, chromium, copper, lead, selenium, orthophosphate, phenols, total cyanide, VOC and SVOC were not detected. The levels of conductivity, sodium, sulphate and chloride all exceeded the respective IGV and GTV levels. Total coliforms and faecal coliforms were not detected. In general levels are similar to those measured during previous monitoring events. The proposed trigger levels were not exceeded. The groundwater is not used for potable purposes.

The groundwater monitoring results for 2012 are similar to those measured during previous monitoring events and the elevated levels are not related to current site activities. OCM carried out a hydrogeological assessment of the site which was submitted to the Agency in July 2011. The assessment confirmed that the site was formerly occupied by a tannery, where salt was used in the curing process. Tanneries are recognised sources of soil and groundwater contamination and the moderately-elevated levels of sodium, chloride, and conductivity detected are consistent with the historic site use, and are not related to the waste transfer activities. In correspondence from May 2012 the Agency has acknowledged that the report meets their requirements in terms of the level of assessment completed.

Table 3.2 Groundwater Monitoring Results 2012

| Parameter | Units | MW1 | Proposed Trigger Level | GTV | IGV |
|---------------------|--------------|------------|-------------------------------|-------------|------------|
| pH | pH Units | 6.59 | 6.88 | NE | 6.5 – 9 |
| Conductivity | mS/cm | 3.637 | 7.84 | 0.800-1.875 | 1 |
| Temperature | °C | 11.2 | - | NE | NE |
| Ammoniacal Nitrogen | mg/l | <0.03 | - | 0.065-0.175 | 0.15 |
| Chloride | mg/l | 1017.4 | 2579.38 | 24-187.5 | 30 |
| Potassium | mg/l | 3.5 | 6.84 | NE | 5 |
| Sodium | mg/l | 650.5 | 1631.25 | 150 | 150 |
| Mercury | mg/l | <0.001 | - | 0.00075 | 0.001 |
| Arsenic | mg/l | <0.0025 | - | 0.0075 | 0.01 |
| Boron | mg/l | 0.046 | - | 0.75 | 1 |
| Cadmium | mg/l | <0.0005 | - | 0.00375 | 0.005 |
| Chromium | mg/l | <0.0015 | - | 0.0375 | 0.03 |
| Copper | mg/l | <0.007 | - | 1.5 | 0.03 |
| Lead | mg/l | <0.005 | - | 0.01875 | 0.01 |
| Nickel | mg/l | 0.006 | - | 0.015 | 0.02 |
| Selenium | mg/l | <0.003 | - | NE | NE |
| Zinc | mg/l | 0.115 | - | NE | 0.1 |
| TOC | mg/l | 3 | - | NE | NE |
| Fluoride | mg/l | <0.3 | - | NE | 1 |
| Sulphate | mg/l | 250.97 | - | 187.5 | 200 |
| ortho Phosphate | mg/l | <0.06 | - | NE | 0.03 |
| Nitrate | mg/l | 5.1 | - | 37.5 | 25 |
| Nitrite | mg/l | <0.02 | - | 0.375 | 0.1 |
| TON | mg/l | 1.1 | - | NE | NE |
| Dissolved Oxygen | mg/l | 6 | - | NE | NAC |
| Total Cyanide | mg/l | <0.01 | - | 0.0375 | 0.01 |
| Total Alkalinity | mg/l | 110 | - | NE | NAC |
| Total Phenols | mg/l | <0.1 | - | NE | NE |
| Total Solids | mg/l | 1749 | - | NE | NE |
| VOC | µg/l | <7 | - | Various | NE |
| SVOC | µg/l | <10 | - | Various | NE |
| Faecal Coliforms | cfu/100ml | <3 | - | NE | 0 |
| Total Coliforms | cfu/100ml | <3 | - | NE | 0 |

3.3 Noise Monitoring

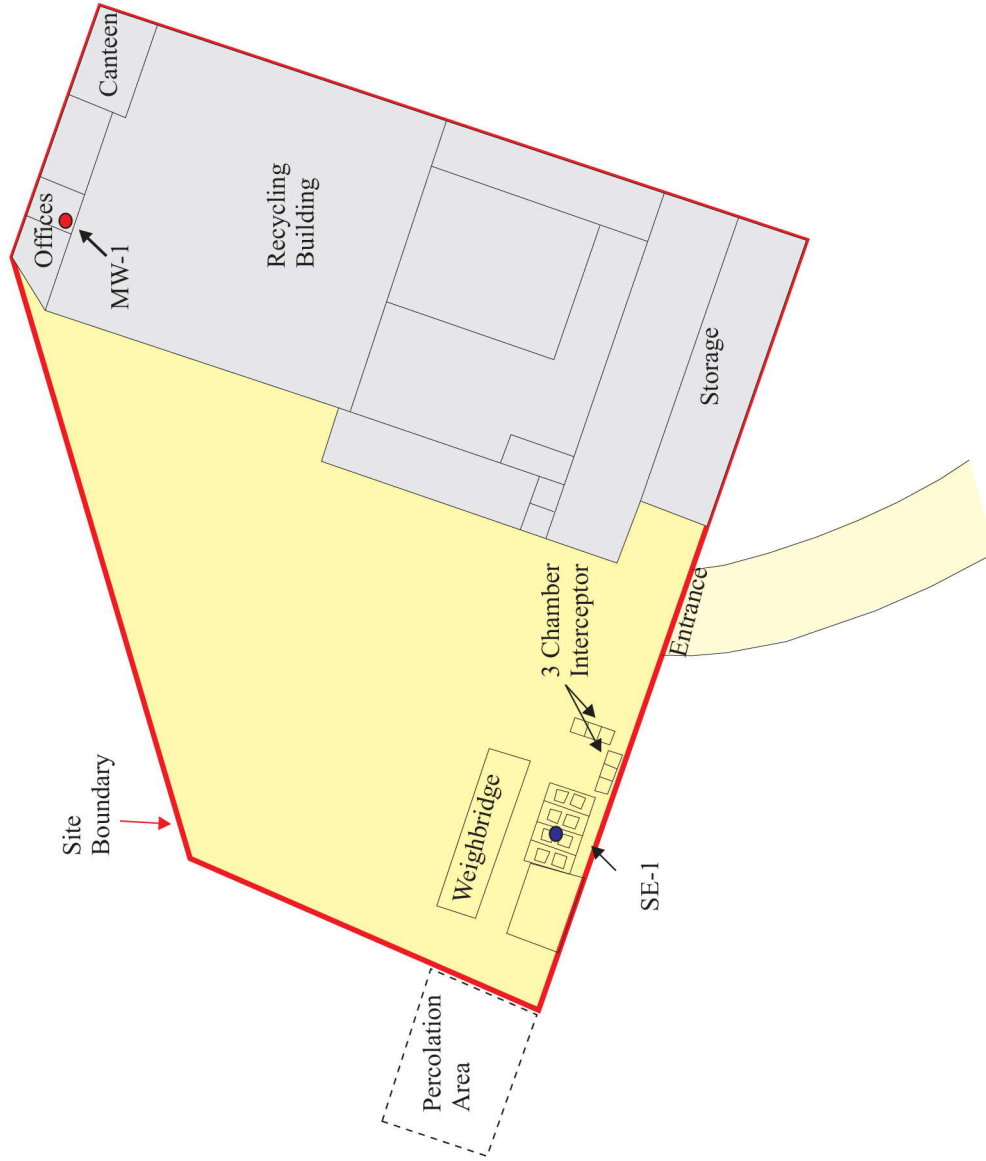
The annual noise survey which was conducted in May 2012 at three offsite noise monitoring locations, N-1, N-2 and N-3. The survey concluded that the facility was fully compliant with the licence requirements. A summary of the noise results is shown on Table 3.3.

The licence sets a daytime noise limit of 55 dB with respect to offsite noise sensitive locations. At station N1, the only station not located within the boundaries of Gorey Business Park, no noise emissions were audible from the facility.

Table 3.3 Noise Monitoring Results 2012

| Station | Time | L _{Aeq 30} min dB | L _{AF10 30} min dB | L _{AF90 30} min dB | Specific level* dB | Noise audible |
|---------|---------------|-------------------------------|--------------------------------|--------------------------------|-----------------------|--|
| N1 | 1500- 1530 | 66 | 66 | 44 | <44 | No facility emissions audible. Sporadic passing road traffic dominant when present. Distant traffic also audible. Bird song/calls and aircraft. Occasional construction noise audible at nearby dwelling. Grass mowers x2 significant at 50-60 m from 1509. |
| N2 | 1612- 1642 | 57 | 59 | 48 | 50 | Intermittent loader and truck movements at Greenstar facility, and through site entrance, clearly audible. However, noise environment dominated by emissions almost continuously arising from activities/sources at surrounding commercial facilities, particularly forklift truck x2 at nearest premises. Bird song/calls and distant traffic audible. Also occasional vehicle movements through commercial park. |
| N3 | 1536- 1606 | 56 | 57 | 39 | 56 | Greenstar loader audible and dominant during intermittent use. Tipping compactor truck also audible at 1558. Vehicle and forklift movements across commercial park audible intermittently. Bird song/calls and aircraft. Distant grass mowers audible offsite. |

*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.



| LEGEND | |
|--------|--------------------------------|
| | Site Boundary |
| | Building |
| | Surface Water Monitoring Point |
| | Ground Water Monitoring Point |

| | | | | |
|---|--------|-------------------------------|---------------|--------------|
| | CLIENT | Greenstar Ltd. | FIGURE NUMBER | 3.1 |
| | TITLE | Monitoring Locations Gorey | Scale | Not To Scale |
| <p>O'Callaghan Moran & Associates, Granary House, Rutland Street, Cork Ireland. Tel: (021) 4321521 Fax: (021) 4321522 email: info@ocallaghannoran.com</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.</p> | | Revision | A | |

4. SITE DEVELOPMENT WORKS

4.1 Engineering Works

A water gully was fitted at the C&D bay in the yard to drain any area where water had historically ponded. The work was completed on the 3rd September 2012.

4.2 Energy Efficiency

An energy audit was carried out in May 2008. The facility is not a significant consumer of resources. Table 4.1 presents an estimate of the resources used on-site from January to December 2012.

Table 4.1 Estimates of Resources Used On-Site

| Resources | Quantities 2011 | Quantities 2012 |
|------------------------|-----------------|-----------------|
| Diesel | 5,200 litres | 5,900 Litres |
| Odour Control Additive | 175 litres | 190 Litres |
| Hydraulic Oil | 100 litres | 100 Litres |
| Electricity | 25,000 units | 27,000 Units |

4.3 Tank and Pipeline Integrity Testing

As per Condition 3.18.5 of the Licence tank and pipeline testing is to be carried out every three years. Testing of the pipeline was completed in March 2012. The pipeline was deemed fit for purpose following the survey. The bund testing report is included in Appendix 1.

The following bunds were tested:

- Paint / Hydraulic Oil Storage Bund (1) Sorbent SC-DP4 model
- AdBlu Bund (1) Sorbent SC-DP2 model
- Deodourizer Bund (1) Sorbent SC-DP2 model

5. WASTE RECEIVED AND CONSIGNED FROM THE FACILITY

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 2012 is presented in the PRTR submission in Appendix 2.

The total quantity of waste received was 21,756 tonnes and the total amount consigned was 21,418 tonnes. 129.5 tonnes remained onsite at the end of the reporting period pending consignment off site. For comparative purposes the amounts of waste received and consigned from 2006 to 2011 are presented in Tables 5.2 and 5.3. 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.

Table 5.1 Waste Received & Consigned 2012

| EWC | Description | Waste In | Waste Out |
|------------|------------------------------------|------------------|-------------------|
| 15 01 01 | Cardboard Packaging | 497.324 | 439.21 |
| 15 01 02 | Plastic Packaging | 28.87 | - |
| 15 01 07 | Glass Packaging | 27.17 | 2.14 |
| 17 01 01 | Concrete, Bricks, Tiles & Ceramics | - | 36.42 |
| 17 01 07 | Concrete, Bricks, Tiles & Ceramics | - | 207.7 |
| 17 09 04 | Mixed C&Dt | 184.02 | 127.52 |
| 20 01 01 | Cardboard & Paper | 4.7 | 20.98 |
| 20 01 02 | Glass | 75.12 | 58.96 |
| 20 01 38 | Wood | 145.07 | - |
| 20 01 39 | Plastic | 43.8 | - |
| 20 01 40 | Metal | 3.33 | 23.04 |
| 20 03 01 | MSW | 14,232.75 | 15,281.95 |
| 20 03 01 | Mixed Dry Recyclables | 3,811.21 | 3,358.64 |
| 20 03 03 | Street Cleaning | 128.27 | 61.38 |
| 20 03 07 | C&I Dry Mixed | 2,579.754 | 1,800.45 |
| | | | |
| | Total Received/Consigned | 21,756.35 | 21,418.388 |
| | Total Recovered | - | 6,664.528 |
| | Total Disposed | - | 14,753.86 |
| | Recovery Rate | - | 31% |

Table 5.2 Waste Received & Consigned 2011

| EWC | Description | Waste In | Waste Out |
|------------|--|-----------------|------------------|
| 15 01 01 | Cardboard Packaging | 88 | 40 |
| 15 01 03 | Wooden Packaging | 1 | - |
| 15 01 06 | Mixed Packaging | 2,062 | 1,834 |
| 15 01 07 | Glass Packaging | 4 | 23 |
| 17 05 04 | Soil & Stone from C&D waste | 39 | - |
| 17 09 04 | Mixed C&D | 136 | 224 |
| 19 12 12 | Mixed Residual Waste from mechanical treatment | | 8,966 |
| 20 01 01 | Newspaper and Pamphlets | 44 | 15 |
| 20 01 02 | Glass | 56 | 55 |
| 20 01 08 | Commercial Food Waste | 42 | - |
| 20 01 38 | Wood | 63 | 42 |
| 20 01 39 | Plastic | 4 | |
| 20 01 40 | Metal | 28 | 36 |
| 20 03 01 | MSW Wet | 6,722 | - |
| 20 03 01 | Mixed Residual Waste - Dry | 2,207 | - |
| | Total Received/Consigned | 11,496 | 11,235 |
| | Total Recovered | - | 4,027 |
| | Total Disposed | - | 7,208 |
| | Recovery Rate | - | 35.8% |

Table 5.3 Previous Years Waste Received and Consigned

| | 2011 | 2010 | 2009 | 2008 | 2007 | 2006 |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Total Received | 11,496 | 11,651.00 | 13,476.60 | 15,885.19 | 18,978.75 | 23,944.64 |
| Total Consigned | 11,235 | 11,572.46 | 13,665.99 | 16,036.83 | 19,780.56 | 25,051.15 |
| Total Recovery | 4,027 | 4,213.93 | 3,614.32 | 7,421.29 | 9,229.13 | 15,895.52 |
| Total Disposed | 7,208 | 7,358.53 | 10,051.67 | 8,615.54 | 10,551.43 | 9,155.63 |
| Recovery Rate | 35.8% | 36.41% | 26.4% | 46.28% | 46.66% | 63% |

6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS

6.1 Incidents

There were no incidents during the reporting period.

6.2 Register of Complaints

Greenstar maintains a register of complaints received in accordance with Condition 11.9 of the waste licence. No complaints were received in 2012 relating to operational issues or environmental performance.

Greenstar was informed of an anonymous complaint in relation to coding of C&D waste at the Gorey facility as described in the 2011 AER and a further issue concerning the undeveloped Greenstar facility at Enniscorthy. The issues were investigated and clarification provided to the Agency who confirmed closure of the complaints in correspondence dated 26th June 2012.

7. ENVIRONMENTAL DEVELOPMENT & CONTROL

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. The site was accredited to both Standards in June 2012.

As part of this IMS, Greenstar has developed a list of environmental, management, operating and maintenance procedures, details of which are outlined in Appendix 3. The schedule of Objectives and Targets, including their status for 2012 (Table 7.1), as well as the proposed Objectives and Targets for 2013 (Table 7.2) are presented below.

7.1.1 Schedule of Objectives 2012

The objectives that were achieved during this reporting period are outlined in Table 7.1. An evaluation of what has been achieved to date is presented below.

Objective 1 - Infrastructure

The wash bay area was upgraded by renovating an existing shed for housing the power washer. This work was completed in Q-2 2012.

Objective 2 –Infrastructure

The replacement of cladding on the boundary fence was completed in Q-2 2012.

Objective 3 – Infrastructure

The improvement and replacement of portions some of the external cladding on the front of the MRF building was completed in Q-2 2012.

Objective 4 – Infrastructure

The installation of a fire alarm in MRF Building is still ongoing.

Objective 5 – Infrastructure

The replacement and upgrade of all site signage was completed in Q-2 2012.

Objective 6 – Infrastructure

The building of a safety wall at loading pit to prevent falling into pit in event of slip or trip was completed in Q-2 2012.

Objective 7 – Nuisance Control Procedures

Greenstar are continually reviewing and assessing all nuisance control procedures to ensure minimal impact on the surrounding area.

Objective 8 –Pollution Prevention

Greenstar are striving to ensure that monitoring results comply with the licence limits and investigate any exceedances of emission limit values.

7.1.2 Schedule of Objectives 2013

A schedule of targets and objectives for 2013 has been set by the management of the facility. These objectives are outlined in Table 7.2.

7.2 Management Structure

Details of the site management structure are given below.

Name: Denis Mullally

Responsibility: General Manager

Experience: 8 years experience

Name: Andrew Rinkulis

Responsibility: Operations Supervisor

Experience: FÁS course completed 2008. 11 years waste management experience

Name: Thomas O’Leary

Responsibility: Operative / Machinery / Loader / Driver

Experience: 8 years experience

Table 7.1 Schedule of Objective and Targets 2012

| No | Objective | Target | Responsibility | Timescale |
|-----------|------------------------------------|---|-----------------------|---|
| 1. | Infrastructure | Upgrade wash bay area by renovating existing shed for housing the power washer | Site Management | Completed in Q2 2012 |
| 2. | Infrastructure | Replace cladding on the boundary fence | Site Management | Completed in Q2 2012 |
| 3. | Infrastructure | Improve and replace some of the external cladding on the front of the MRF building | Site Management | Completed in Q2 2012 |
| 4. | Infrastructure | Install Fire alarm in MRF Building | Site Management | Signage done in Q2 2012. Fire alarm not done. |
| 5. | Infrastructure | Replace and upgrade all site signage | Site Management | Q1 2012 |
| 6. | Infrastructure | Build safety wall at loading pit to prevent falling into pit in event of slip or trip | Site Management | Completed Q2 2012 |
| 7. | Nuisance Control Procedures | Continually review and assess all nuisance control procedures to ensure minimal impact on the surrounding area. | Site Management | Ongoing |
| 8. | Pollution Prevention | Strive to ensure that monitoring results comply with the licence limits and investigate any exceedances of emission limit values. | Site Management | Ongoing |

Table 7.2 Schedule of Objective and Targets 2013

| No | Objective | Target | Responsibility | Timescale |
|-----------|------------------------------------|---|-----------------------|------------------|
| 1. | Infrastructure | Remove old half weighbridge | Site Management | Planned Q4 2013 |
| 2. | Infrastructure | Replace/repair roof gutters | Site Management | Planned Q2 2013 |
| 3. | Infrastructure | Paint and repair Entrance gate to site | Site Management | Planned Q2 2013 |
| 4. | Nuisance Control Procedures | Continually review and assess all nuisance control procedures to ensure minimal impact on the surrounding area. | Site Management | Ongoing |
| 5. | Pollution Prevention | Strive to ensure that monitoring results comply with the licence limits and investigate any exceedances of emission limit values. | Site Management | Ongoing |
| 6 | Waste Storage | Review waste wood processing & storage practices taking account of the recent Agency Position Paper on the Management of Wood Waste | Site Management | Q2 2013 |
| 7 | Odour Management | Compile an Odour Management Plan for the facility and include it on the training matrix referred to in Objective 1 | Site Management | Q2 2013 |
| 8 | Environmental Liabilities | Commission the completion of an ELRA in 2013 | Site Management | Q3 2013 |

7.3 Communications Programme

Condition 2.2.2.7 requires the establishment of a Communications Programme. Greenstar is committed to setting the standard in waste management and ensuring environmental compliance in all operations. In addition, Greenstar's updated Environmental and Health & Safety Policy makes a specific commitment to ensuring that the policy itself and records are available to the public and interested parties.

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 1890 600 900.

7.4 Nuisance Control

Greenstar has contracted ISS Ltd to carry out vermin inspections at the facility. ISS Ltd visit the facility monthly and inspect for vermin and inspect and maintain the 9 bait boxes and 4 mice boxes on the site. The facility has not had any problem with fly infestations, but should a problem occur, this can be dealt with by ISS Ltd on a call out basis.

7.5 Water Demand

The only water used on the site is for sanitary purposes in the toilets (2 No. staff), the canteen and occasionally for the odour suppression system. The odour suppression system consists of five roof mounted nozzles which spray a fine mist over the MSW storage area when MSW is brought to the facility. The volume of odour suppressants used in 2012 was 190 litres. The volume of water used at the facility is not quantifiable at this time, but is very small.

7.6 Waste Generated On-site

The facility is manned by two full-time staff and therefore does not generate a large amount of canteen or office waste. All waste generated is source separated and removed off site for recycling or disposal.

7.7 Pollution Emission Register

The Pollution Emission Register (PER) has been replaced by the European Pollutant Release and Transfer Register Regulation (EC) No. 166/2006. A copy of the information submitted to the Agency via the web-based data reporting system is included in Appendix 2.

7.8 Financial Provision & Measures to Minimise Potential Environmental Damage

Greenstar submitted an Environmental Liabilities Risk Assessment (ELRA) to the Agency for their consideration in May 2012. Greenstar has adequate insurance cover for environmental liabilities to €10,000,000 for any one occurrence, which will apply to “sudden identifiable and unintended incidents”.

In the event of the closure of the facility the cost of decommissioning has been calculated as approximately €11,500. This provision shall be revised in 2013 and agreed with the Agency.

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

8. OTHER REPORTS

The Agency granted a Technical Amendment to the facility in January 2012 amending the red-line site boundary to incorporate the new weighbridge.

No other reports were requested by the Agency for inclusion in the AER during the reporting period.

APPENDIX 1

Bund Reports



Greenstar Gorey
EPA Waste Licence W0220-01

Integrity Testing of above ground bunds, March 2012
as per Condition 3.18.5 of the EPA Waste Licence

3.18.5 The integrity and water tightness of all the bunding structures, tanks and containers and their resistance to penetration by water or other materials stored therein shall be tested and demonstrated by the licensee at least once every three years. This testing shall be carried out in accordance with any guidance published by the Agency.

Mobile bunds inspected:

- Paint / Hydraulic Oil Storage Bund (1) Sorbent SC-DP4 model
- AdBlu Bund (1) Sorbent SC-DP2 model
- Deodourizer Bund (1) Sorbent SC-DP2 model

Water Tightness Test

A water test was performed on the above three bunds in accordance with the following guidance documents:-

BS 8007 (1987) – Design of Concrete Structures for Retaining Aqueous Liquids

CIRLA Report 163 - Construction of Bunds for Oil Storage Tanks

On March 2nd 2012 each bund was filled to an appropriate level, marked accordingly and photographed. Approximately 72 hours later on March 5th each bund was assessed and photographed.

➤ Oil/Paint Storage Bund (1)



Filled with 750 litres (approx) of water on 02/03/12 waterline marked and photographed.

Water left in the bund for 72hrs and photographed again on 05/03/12.



➤ Adblu Bund (2)



Filled with 350 litres (approx) of water on 02/03/12 waterline marked and photographed.

Water left in the bund for 72hrs and photographed again on 05/03/12.



➤ Deodorizer Bund (3)



Filled with 350 litres (approx) of water on 02/03/12 waterline marked and photographed.

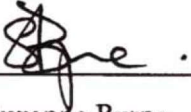
Water left in the bund for 72hrs and photographed again on 05/03/12.



Test Result:

No drop in water levels was recorded in any bund during the test period.

The integrity and water tightness of the bunds is sound and they are therefore fit for purpose.



Suzanne Byrne

Environmental Engineer

For and *on behalf* of Greenstar Ltd

APPENDIX 2

European Pollutant Release and Transfer Register



Environmental Protection Agency

| PRTR#: W0220 | Facility Name : Waste Recycling Centre | Filename : W0220_2012.xls | Return Year : 2012 |

[Guidance to completing the PRTR workbook](#)

AER Returns Workbook

Version 1.1.15

| | |
|-----------------------|------|
| REFERENCE YEAR | 2012 |
|-----------------------|------|

1. FACILITY IDENTIFICATION

| | |
|----------------------------|------------------------|
| Parent Company Name | Greenstar Limited |
| Facility Name | Waste Recycling Centre |
| PRTR Identification Number | W0220 |
| Licence Number | W0220-01 |

Waste or IPPC Classes of Activity

| No. | class_name |
|--|---|
| 4.2 | Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes). |
| 3.11 | Blending or mixture prior to submission to any activity referred to in a preceding paragraph of this Schedule. |
| 3.12 | Repackaging prior to submission to any activity referred to in a preceding paragraph of this Schedule. |
| 3.13 | Storage prior to submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where the waste concerned is produced. |
| 4.13 | Storage of waste intended for submission to any activity referred to in a preceding paragraph of this Schedule, other than temporary storage, pending collection, on the premises where such waste is produced. |
| 4.3 | Recycling or reclamation of metals and metal compounds. |
| 4.4 | Recycling or reclamation of other inorganic materials. |
| Address 1 | Ramstown |
| Address 2 | Gorey |
| Address 3 | Co Wexford |
| Address 4 | |
| | Wexford |
| Country | Ireland |
| Coordinates of Location | -6.30814 52.6661 |
| River Basin District | IESE |
| NACE Code | 3832 |
| Main Economic Activity | Recovery of sorted materials |
| 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 | 2 |
| User Feedback/Comments | |
| Web Address | |

2. PRTR CLASS ACTIVITIES

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

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

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

4. 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) ? | |
|--|--|

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# : W0220 | Facility Name : Waste Recycling Centre | Filename : W0220_2012.xls | Return Year : 2012 |

28/03/2013 15:12

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

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

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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

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

| POLLUTANT | | METHOD | | | QUANTITY | | | |
|---------------|------|--------|-------------|----------------------------|------------------|-------------------|------------------------|----------------------|
| Pollutant No. | Name | M/C/E | Method Code | Designation or Description | Emission Point 1 | T (Total) KG/Year | A (Accidental) KG/Year | F (Fugitive) KG/Year |
| | | | | | | 0.0 | 0.0 | 0.0 |

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

Additional Data Requested from Landfill operators

For the purposes of the National Inventory on Greenhouse Gases, landfill operators are requested to provide summary data on landfill gas (Methane) flared or utilised on their facilities to accompany the figures for total methane generated. Operators should only report their Net methane (CH4) emission to the environment under T(total) KG/yr for Section A: Sector specific PRTR pollutants above. Please complete the table below:

| Please enter summary data on the quantities of methane flared and / or utilised | Method Used | | | | Facility Total Capacity m3 per hour |
|---|-------------------|-------|-------------|----------------------------|-------------------------------------|
| | T (Total) kg/Year | M/C/E | 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#: W0220 | Facility Name : Waste Recycling Centre | Filename : W0220_2012.xls | Return Year : 2012 |

28/03/2013 15:12

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 this only concerns Releases from your facility

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

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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

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

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

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

4.3 RELEASES TO WASTEWATER OR SEWER

[Link to previous years emissions data](#)

| PRTR#: W0220 | Facility Name : Waste Recycling Centre | Filename : W0220_2012.xls | Return Year : 2

28/03/2013 15:12

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#: W0220 | Facility Name : Waste Recycling Centre | Filename : W0220_2012.xls | Return Year : 2012 |

28/03/2013 15:12

SECTION A : PRTR POLLUTANTS

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

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

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

| RELEASES TO LAND | | | | Please enter all quantities in this section in KGs | | |
|------------------|------|--------|---|--|-------------------|------------------------|
| POLLUTANT | | METHOD | | QUANTITY | | |
| Pollutant No. | Name | M/C/E | Method Used 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#: W0220 | Facility Name : Waste Recycling Centre | Filename : W0220_2012.xls | Return Year : 2012 |

28/03/2013 15:12

Please enter all quantities on this sheet in Tonnes

0

| Transfer Destination | European Waste Code | Hazardous | Quantity (Tonnes per Year) | Description of Waste | Waste Treatment Operation | Method Used | | Location of Treatment | Haz Waste : Name and Licence/Permit No of Next Destination Facility Haz Waste : Name and Licence/Permit No of Recover/Disposer | 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 | 15 01 01 | No | 439.21 | paper and cardboard packaging | R3 | M | Weighed | Offsite in Ireland | Greenstar Bray,W0053-03 | Fassaroe,Bray,,Co Wicklow,Ireland | | |
| Within the Country | 15 01 07 | No | 2.14 | glass packaging | R13 | M | Weighed | Offsite in Ireland | Greenstar Environmental Services,W0177-03 | Six Cross Roads Business Park ,Waterford City ,-- ,ireland | | |
| Within the Country | 17 01 01 | No | 36.42 | concrete | R13 | M | Weighed | Offsite in Ireland | Chi Environmental Ltd.,WMP 023/2007 | Granagh,Kilmacow,,Co. Kilkenny,Ireland | | |
| Within the Country | 17 01 07 | No | 150.72 | mixture of concrete, bricks, tiles and ceramics other than those mentioned in 17 01 06 | R13 | M | Weighed | Offsite in Ireland | Chi Environmental Ltd.,WMP 023/2007 | Granagh,Kilmacow,,Co. Kilkenny,Ireland | | |
| Within the Country | 17 01 01 | No | 56.98 | concrete | R13 | M | Weighed | Offsite in Ireland | Tomas Driver to Adam Green,WP69/08 | Portlaw,,,,Waterford,Ireland | | |
| Within the Country | 17 09 04 | No | 127.52 | mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03 | R13 | M | Weighed | Offsite in Ireland | Chi Environmental Ltd.,WMP 023/2007 | Granagh,Kilmacow,,Co. Kilkenny,Ireland | | |
| Within the Country | 20 01 01 | No | 20.98 | paper and cardboard | R13 | M | Weighed | Offsite in Ireland | Greenstar Bray,W0053-03 | Fassaroe,Bray,,Co Wicklow,Ireland | | |
| Within the Country | 20 01 02 | No | 58.96 | glass | R13 | M | Weighed | Offsite in Ireland | Glassco,WFP KE-08 0957 01 | Naas,,,,Kildare,Ireland | | |
| Within the Country | 20 01 40 | No | 23.04 | metals | R4 | M | Weighed | Offsite in Ireland | Molloys,WP/08/14B | Enniscorthy,,,,Wexford,Ireland | | |
| Within the Country | 20 03 01 | No | 255.48 | mixed municipal waste | D15 | M | Weighed | Offsite in Ireland | AES Tullamore,W104-02 | Cappincur,,Tullamore,Co. Offaly,Ireland | | |
| Within the Country | 20 03 01 | No | 11816.998 | mixed municipal waste | D5 | M | Weighed | Offsite in Ireland | Greenstar Ballynagran,W0165-02 | Ballynagran Landfill,,,,Wicklow,Ireland | | |
| Within the Country | 20 03 01 | No | 2274.31 | 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 | 530.86 | mixed municipal waste | D10 | M | Weighed | Offsite in Ireland | Indaver IWMF ,W0167-02 | Carranstown,Duleek,,Co. Meath,Ireland | | |
| Within the Country | 20 03 01 | No | 158.48 | mixed municipal waste | R13 | M | Weighed | Offsite in Ireland | Oxigen Environmental Ltd.,W0152-03 | Robinhood Industrial Estate,Robinhood Road,Ballymount,Dublin 22,Ireland | | |
| Within the Country | 20 03 01 | No | 293.32 | mixed municipal waste | D5 | M | Weighed | Offsite in Ireland | Rampere Landfill,W0066-03 | Baltinglass,,,,Co. Wicklow,Ireland | | |
| Within the Country | 20 03 01 | No | 207.98 | mixed municipal waste | R13 | M | Weighed | Offsite in Ireland | Waterford Co Co MRF,W0189-01 | Dungarvan,,,,Waterford ,Ireland | | |
| Within the Country | 20 03 01 | No | 3103.16 | mixed municipal waste | R13 | M | Weighed | Offsite in Ireland | Greenstar Bray,W0053-03 | Fassaroe,Bray,,Co Wicklow,Ireland | | |
| Within the Country | 20 03 03 | No | 19.98 | street-cleaning residues | D5 | M | Weighed | Offsite in Ireland | Bord na Mona Drehid Landfill,W0201-03 | Carbury,,,,Co Kildare,Ireland | | |
| Within the Country | 20 03 03 | No | 41.4 | street-cleaning residues | D5 | M | Weighed | Offsite in Ireland | Greenstar Ballynagran,W0165-02 | Ballynagran Landfill,,,,Wicklow,Ireland | | |
| Within the Country | 20 03 07 | No | 52.38 | bulky waste | D5 | M | Weighed | Offsite in Ireland | Bord na Mona Drehid Landfill,W0201-03 | Carbury,,,,Co Kildare,Ireland | | |
| Within the Country | 20 03 07 | No | 1748.07 | bulky waste | R13 | M | Weighed | Offsite in Ireland | Greenstar Bray,W0053-03 | Fassaroe,Bray,,Co Wicklow,Ireland | | |

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

[Link to previous years waste data](#)

APPENDIX 3

Procedures List

| | | |
|--------------------------|---|-----------------------------|
| Doc. No.: Control | Revision No.: As Shown | Issue Date: As Shown |
| Approved By: | Malcolm Dowling – Group Environmental Manager | Page 1 of 4 |
| | Oliver Callan – Group H&S Manager | |

Integrated Procedures - IP

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

Safety Procedures - SP

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



| | | |
|--------------------------|--|-----------------------------|
| Doc. No.: Control | Revision No.: As Shown | Issue Date: As Shown |
| Approved By: | Malcolm Dowling – <i>Group Environmental Manager</i> | Page 2 of 4 |
| | Oliver Callan – <i>Group H&S Manager</i> | |

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

| | | |
|--------------------------|---|-----------------------------|
| Doc. No.: Control | Revision No.: As Shown | Issue Date: As Shown |
| Approved By: | Malcolm Dowling – Group Environmental Manager | Page 3 of 4 |
| | Oliver Callan – Group H&S Manager | |

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 | Circ List | 02 | Amendment to document control | M.D & O.C |
| 04.04.11 | 13 | SP-02 | 03 | Inclusion of Site Specific Maintenance schedules | O.C |
| 07.06.11 | 14 | IP-11 | 02 | Inclusion of H&S & Env Internal Audit Schedules | M.D & O.C |
| 14/09/11 | 15 | EP-02 | 02 | Inclusion of decommissioning of plant/equipment | S.B |
| 15/09/11 | 16 | IP-09 | 02 | Inclusion of Statutory Inspections | O.C |
| 01/12/11 | 17 | SP-09 | 01 | Inclusion of new procedure for SCGT | O.C |
| 01/12/11 | 18 | SP-10 | 01 | Inclusion of new procedure for SCGT | O.C |
| 03/05/12 | 19 | SP-01 | 02 | Amendment to remove SF 028 | O.C |
| 05/05/12 | 20 | SP-11 | 01 | Inclusion of a new procedure for Greenogue | O.C |
| 28/05/12 | 21 | IP-11 | 03 | General Amendments to internal audit procedure | M.D & O.C |
| 08/06/12 | 22 | IP-13 | 03 | Grammatical amendment | M.D & O.C |



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| Doc. No.: Control | Revision No.: 02 | Issue Date: 1st February 2011 |
| Approved By: | Malcolm Dowling – <i>Group Environmental Manager</i> Oliver Callan – <i>Group H&S Manager</i> | Page 4 of 4 |

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