



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

31<sup>st</sup> March 2009

RE: 2008 Annual Environmental Report - - South East Recycling Company Ltd. - Co. Wexford -  
Reg. No. W0111-01

Dear Sir / Madam,

Please find enclosed an original and 2 no. copies of the 2008 Annual Environmental Report (AER) for the above referenced facility. The AER file has been uploaded to the EPA website and is a true copy of the original Annual Environmental Report. The AER/PRTR emissions data reporting workbook has also been uploaded to the EPA website.

If you have any queries, please call me.

Yours sincerely,

Michael Watson

0804815/MG/JC

Encl

c.c. Mr. Malcolm Dowling, Greenstar Ltd.,  
Mr. John Mernagh, SERC Ltd.,



**ANNUAL ENVIRONMENTAL REPORT**  
**SOUTH EAST RECYCLING COMPANY LIMITED**  
**LICENCE NO. W0111-01**  
**JANUARY 2008 – DECEMBER 2008**

**Prepared For: -**

South East Recycling Company Limited,  
Carrigbawn,  
Pembrokestown,  
Co. Wexford.

**Prepared By: -**

O' Callaghan Moran & Associates,  
Granary House,  
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**31<sup>st</sup> March 2009**

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# TABLE OF CONTENTS

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	<u>PAGE</u>
<b>1. INTRODUCTION.....</b>	<b>1</b>
<b>2. SITE DESCRIPTION.....</b>	<b>2</b>
2.1    SITE LOCATION AND LAYOUT.....	2
2.2    WASTE MANAGEMENT ACTIVITIES .....	2
2.2.1 <i>Waste Types</i> .....	2
2.2.2 <i>Waste Handling</i> .....	3
<b>3. EMISSION MONITORING .....</b>	<b>4</b>
3.1    SURFACE WATER MONITORING.....	4
3.2    GROUNDWATER MONITORING.....	5
3.3    NOISE SURVEY .....	5
3.4    DUST MONITORING.....	5
<b>4. SITE DEVELOPMENT WORKS .....</b>	<b>7</b>
4.1    ENGINEERING WORKS.....	7
4.2    SUMMARY OF RESOURCE & ENERGY CONSUMPTION.....	7
4.3    BUND INTEGRITY TEST .....	7
<b>5. WASTE RECEIVED AND CONSIGNED FROM THE FACILITY .....</b>	<b>8</b>
<b>6. ENVIRONMENTAL INCIDENTS AND COMPLAINTS .....</b>	<b>12</b>
6.1    INCIDENTS .....	12
6.2    REGISTER OF COMPLAINTS .....	12
<b>7. ENVIRONMENTAL DEVELOPMENT .....</b>	<b>13</b>
7.1    ENVIRONMENTAL MANAGEMENT PROGRAMME REPORT.....	13
7.1.1 <i>Schedule of Objectives 2008</i> .....	13
7.1.2 <i>Schedule of Objectives 2009</i> .....	13
7.1.3 <i>Site Management Structure</i> .....	13
7.1.4 <i>Staff Training</i> .....	13
7.2    COMMUNICATIONS PROGRAMME .....	16
7.3    NEW PROCEDURES DEVELOPED IN 2008 .....	17
7.4    REPORT FINANCIAL PROVISION .....	17
7.5    NUISANCE CONTROL.....	17
7.6    EUROPEAN POLLUTANT RELEASE AND TRANSFER REGISTER.....	17
7.7    FOUL WATER VOLUME TRANSPORTED OFF-SITE .....	17
<b>8. OTHER REPORTS.....</b>	<b>18</b>
<b>APPENDIX 1</b> -	Environmental Monitoring Summary Tables
<b>APPENDIX 2</b> -	Bund Integrity Test
<b>APPENDIX 3</b> -	Complaints Register
<b>APPENDIX 4</b> -	New Procedures
<b>APPENDIX 5</b> -	European Pollutant Release and Transfer Register

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## 1. INTRODUCTION

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This is the 2008 Annual Environmental Report (AER) for South East Recycling Company Ltd's (SERC) Waste Transfer Facility (WTF) at Pembrokestown, Wexford. The report covers the period from the 1<sup>st</sup> January 2008 to the 31<sup>st</sup> December 2008.

The content of the AER is based on Schedule B of the Waste Licence (W0111-01) and the report format follows guidelines set in the "*Guidance Note for Annual Environmental Report*" issued by the Environmental Protection Agency (Agency).

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## 2. SITE DESCRIPTION

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### 2.1 Site Location and Layout

The facility occupies 1.49 ha and is located at Carrigbawn, Pembrokestown. It is accessed from the main N25 via a local county road (Whiterock Hill) to the south of Wexford Town. The area to the north and east of the facility is mainly occupied by private dwellings. In general, the lands to the south and west are used for agricultural purposes.

The entrance is off Whiterock Hill Road and there is a car park, portacabin type offices and a weighbridge approximately 20 metres inside the entrance. There are two main buildings, the Transfer Building in the south west and a Maintenance Building in the north.

### 2.2 Waste Management Activities

The Licence allows SERC to accept and process 13,500 tonnes of waste per annum, comprising commercial/industrial non-hazardous waste, recyclables and construction and demolition wastes. The plant used at the facility is listed on 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	52hr wk
1	Forklift/sweeper	Used for sweeping the yard only	-
2	Front end loading shovel	JCB	50 tonnes per hour each
1	Track machine with grab	Caterpillar 321 LC	40 tonnes per hour

#### 2.2.1 Waste Types

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

- Recyclables (1,500 tonnes),
- Commercial (5,000 tonnes),
- Construction & Demolition (3,500 tonnes),

- Industrial Non-Hazardous (3,500 tonnes)

No hazardous wastes or liquid wastes are accepted.

The maximum tonnage of each waste type accepted may be altered with the prior agreement of the Agency, so long as the total maximum tonnage is not exceeded.

### 2.2.2 *Waste Handling*

Incoming waste is unloaded, separated into fractions that are then compacted and loaded onto trailers for transfer off-site to appropriately licensed facilities. A front loader and grab loader are used to move waste and load the waste.

In 2008, a re-configuration of the transfer building and yard area was carried out. The re-configuration work included the removal of the old baling equipment and a significant number of old skips which were sent to Molloy Metal Recycling. In addition, approximately 3,000 stored wheelie bins were returned to the suppliers (Midland Environmental Services).

Three pre-cast concrete storage bays to the front of the Transfer Building were used for storage of processed C&D material and plate glass. Additional storage bays to the south of the building were used for storage of glass and beverage containers. These storage bays were removed in Q1 2009 and all waste is now either stored internally, or in the case of glass packaging, externally in covered containers.

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### 3. EMISSION MONITORING

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SERC implements the comprehensive environmental monitoring programme specified in the Licence to assess the significance of emissions from site activities. The programme includes surface water, groundwater, noise 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 carried out in the reporting period is presented in this Section, with summary data in tables included in Appendix 1.

#### 3.1 Surface Water Monitoring

Surface water monitoring was carried out quarterly at four locations (SW-1, SW-2, SW-3 and SW-4). SW-1 is in a drain located along the south-western boundary and is at the outfall for surface water run-off from the facility. SW-2 is in the drain downstream of the discharge point. SW-3 is upstream of the facility, on a drain located along the north eastern facility boundary. SW-4 is downstream of the facility. In each quarterly sampling event locations SW-3 and SW-4 were dry and SW-2 was also dry during Q2 2008.

The range of analysis was as specified in Schedule E of the Waste Licence and includes quarterly monitoring of pH, electrical conductivity, Chemical Oxygen Demand (COD), Biological Oxygen Demand (BOD), chloride, ammoniacal nitrogen, dissolved oxygen, total suspended solids, and oils, fats and greases and annual monitoring of total coliforms and faecal coliforms.

There are no Emission Limit Value (ELV) and Trigger Levels set in the Licence. The results were compared to the proposed Agency EQS values, which are proposed water quality standards to assess the status of surface waters in Ireland. Warning and action levels will be incorporated into the reporting of future surface water monitoring at the site, commencing with Q1 monitoring in 2009.

High levels of ammoniacal nitrogen were measured at SW-1 and SW-2 in Q1, Q3 and Q4. The elevated levels may be due in part to the stagnant conditions at the sample points and also to the use of the adjoining fields for farm animal grazing. The BOD, COD and TSS levels measured at SW-2 in Q3 were higher than the previously measured at this location. The elevated levels may be due in part to the stagnant conditions and disturbance of sediment while sampling due to low flow conditions. The total and faecal coliform levels were high in both samples in Q3 2008, but are not untypical of surface water drains in an agricultural area. There is no evidence that site activities are impacting on surface water quality.

### **3.2 Groundwater Monitoring**

The monitoring programme includes bi-annual sampling of two wells (BH-2 and BH-4). BH-2 is downgradient and at the north-western boundary of the facility. BH-4 is upgradient of the facility, along the south-eastern site boundary. The monitoring locations are shown on Figure 3.1.

The range of analysis was as specified in Schedule E of the Waste Licence and included bi-annual monitoring of pH, electrical conductivity and ammonia and annual monitoring of total petroleum hydrocarbons and total and faecal coliforms. There are no Emission Limit Value (ELV) and Trigger Levels set in the Licence. The results were compared to the Interim Guideline Values (IGVs) for groundwater published by the Agency. The IGV levels represent typical background or unpolluted conditions. However, it is recognised that levels higher than the IGV may occur naturally depending on the local geological and hydrogeological conditions.

The quality of the groundwater was good and generally consistent with the previous monitoring. Total ammonia, total coliform and faecal coliform levels were not detected. The results indicate that the facility is having no impact on groundwater.

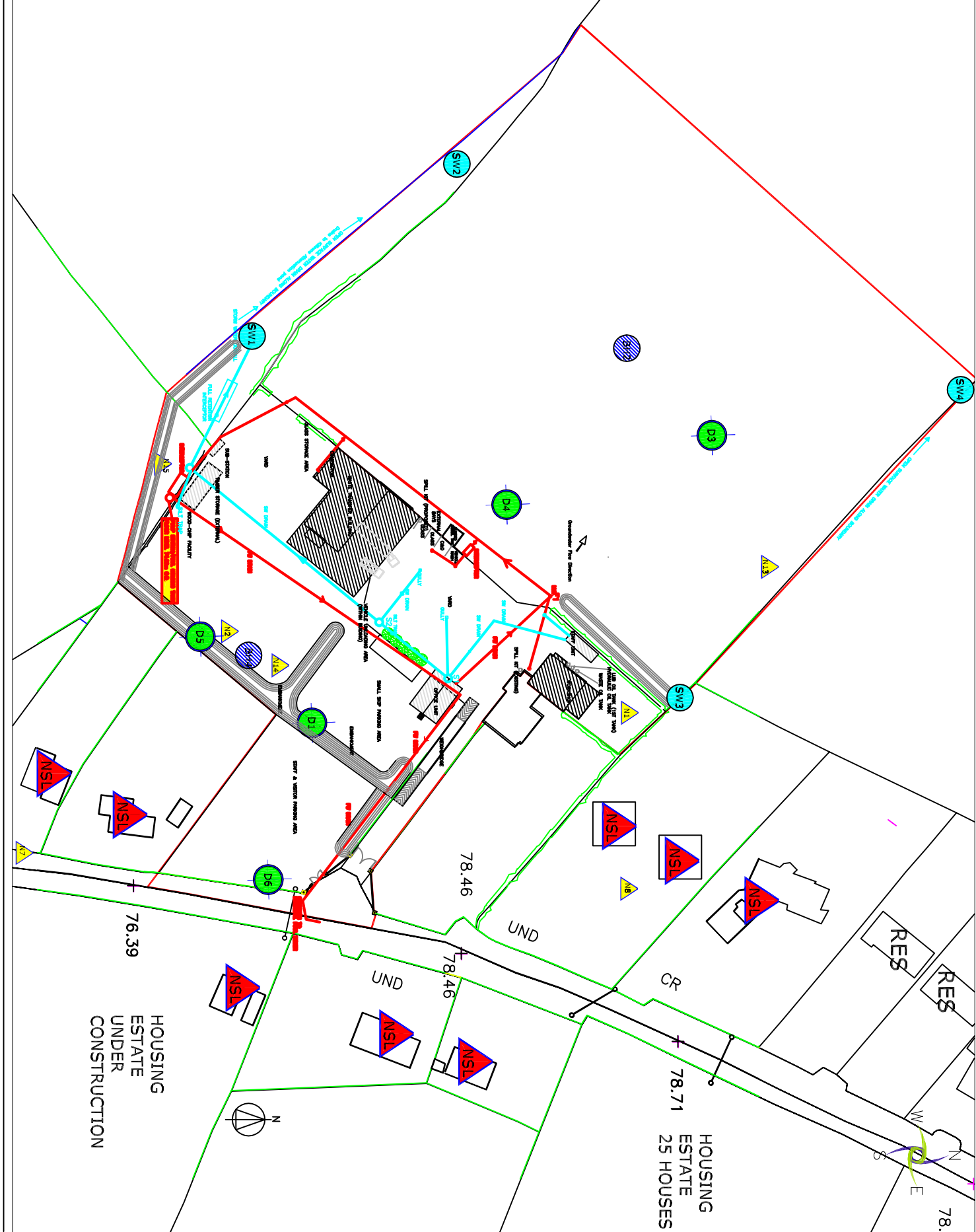
### **3.3 Noise Survey**

SERC carried out the bi-annual noise surveys at the facility in July 2008 and October 2008 and the results were submitted to the Agency in July 2008 and January 2009. Monitoring was carried out at seven noise monitoring locations, N1, N2, N13, N14 and N15 located onsite and N7 and N8 located offsite. The surveys were conducted when the site was fully operational. The surveys established that the facility was compliant with the licence requirements.

### **3.4 Dust Monitoring**

SERC conducted dust monitoring on three occasions (May, June and July) at five on-site locations (D-1, D-3, D-4, D-5 and D-6). The licence requires that two of these monitoring events be carried out between May and September. The dust deposition limit specified in the Waste Licence ( $350 \text{ mg/m}^2/\text{day}$ ) was marginally exceeded once, at D-1 in May 2008. The cause of this exceedance was due to a large amount of particulates/insects in the sample. While most of these were removed in the laboratory, it is probable that the remnants contributed to the marginal ( $28 \text{ mg/m}^2/\text{day}$ ) exceedance. The dust deposition limit was not exceeded at any location in the two remaining monitoring events.





### LEGEND

- Noise Sensitive Location (NSL)
- Air Quality Monitoring Station (AQMS)
- Water Sampling Point (WSP)
- Boundary Noise Monitoring Point (BNMP)
- Groundwater Monitoring Point (GMP)
- Other Monitoring Point
- Other Monitoring Point

Monitoring Point	Grid Reference	Coordinate	Notes
SW1	2006464937196481	5102	Water Sampling Point
SW2	2006464937196482	5102	Water Sampling Point
SW3	2007444611796483	5103	Water Sampling Point
SW4	2007444611796484	5103	Water Sampling Point
DS1	2007444611796485	5103	Dust Sampling Point
DS2	2006464937196486	5103	Dust Sampling Point
DS3	2007444611796487	5103	Dust Sampling Point
DS4	2007444611796488	5103	Dust Sampling Point
DS5	2007444611796489	5103	Dust Sampling Point
DS6	2007444611796490	5103	Dust Sampling Point
A1	2007444611796491	5103	Other Monitoring Point
A2	2007444611796492	5103	Other Monitoring Point
A3	2007444611796493	5103	Other Monitoring Point
A4	2007444611796494	5103	Other Monitoring Point
A5	2007444611796495	5103	Other Monitoring Point
A6	2007444611796496	5103	Other Monitoring Point
A7	2007444611796497	5103	Other Monitoring Point

Client: South East Recycling Company Ltd.

Project: Waste Licence

Title: Site Layout, Monitoring Locations

Scale: 1:1,000 @ A3 (1:2,000 @ A4)

Prepared by: JCC Date: 20.03.2007

Checked: JCC Date: 20.03.2007

Project Director: CCM

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Rev	Description	By	CHK
1	As Issued	OCM	JCC

Drawing No: FIGURE 3.1 A

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## 4. SITE DEVELOPMENT WORKS

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### 4.1 Engineering Works 2008

An odour control system comprising two rotary atomisers was installed and commissioned at the facility in January 2008 by PCP Group. One of these was installed inside the Transfer Building and the second was installed outside of the Building. In March 2008 SERC carried out extensive repair works to the cladding on the sides and roof of the Building. In April 2008, concrete re-surfacing work was undertaken in the main yard area.

The Agency will be notified of all future engineering works as per Condition 4.16 of the Licence.

### 4.2 Summary of Resource & Energy Consumption

Table 4.3 presents the resources used on-site during the reporting period.

**Table 4.3 Estimated On-Site Resource Use**

<b>Resources</b>	<b>Quantities</b>
Road Diesel	195,000 litres
Plant Fuel	12,000 litres
Ad Blue	500 litres
Hydraulic, Transmission and Engine Oil	2,000 litres
Gear Oil	50 litres
Odour Neutraliser	250 litres
Truck Wash Detergent	50 litres
Anti Freeze	80 litres
Electricity	63,000 units

### 4.3 Bund Integrity Test

Bund integrity tests were carried out in April 2008 on the main fuel bund, a copy of which is included in Appendix 2.

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

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Table 5.1 shows the total quantities of waste received and consigned from the facility in 2008, Table 5.2 shows the quantities for 2007. A breakdown of the waste types is provided in accordance with the European Waste Catalogue and Hazardous Waste (EWC/HWL) list.

The total amount received in 2008 was 32,293.02 tonnes. The total amount consigned was 32,834.34 tonnes. Of the difference (approximately 541.32 tonnes or 1.6% of the total consigned) some of this was waste which remained on site at the end of 2007 (167 tonnes) and was consigned in 2008. Approximately 133 tonnes remained on site at the end of 2008 and was be consigned in Q1 of 2009. The difference is therefore considered insignificant and is most likely due to discrepancies with the weighbridge over the year. Table 5.3 shows the quantities of waste received and consigned in previous years.

The recovery rate is estimated at 59%.

During 2008 SERC initiated a series of measures that will ensure that the site fully complies with the licence tonnage limit in 2009. These actions include diversion of tonnage to alternative sites, non acceptance of wastes and continual monitoring of waste intake. The action will allow the facility to meet the licence limit of 13,500 tonnes in 2009.

All the wastes consigned from the site in 2008 went to recovery and disposal facilities agreed with the Agency. The name and location of the facilities are given in Table 5.4.

**Table 5.1 Waste Received & Consigned 1<sup>st</sup> Jan 2008 – 31<sup>st</sup> Dec 2008**

<b>EWC</b>	<b>Description</b>	<b>Waste In</b>	<b>Waste Out</b>	<b>Destination</b>
15 01 01	Cardboard Packaging	657.90	328.37	Greenstar Fassaroe
15 01 02	Plastic Bottles	125.57		
	Plastic Packaging	51.22		
	Polystyrene	1.66		
15 01 03	Wooden Packaging	2.04		
15 01 04	Aluminium Cans	139.08	20.91	Molloy Metals
	Metallic Packaging	0.16		
	Aluminium		79.81	Greenstar Fassaroe
15 01 05	Tetra Pak Cartons	1.59		
15 01 06	Mixed Packaging	6,385.57	3,714.50	Greenstar Fassaroe
			66.88	Glyntown Enterprises
			2,901.21	Waterford County Council
15 01 07	Glass Packaging	3,931.67	79.39	Berryman & Sons
			3,862.21	Glassco Recycling
			438.94	Stafford Shipping
17 01 07	C&D Inert Mixed	17.82	3,205.95	C.R.S.
17 05 04	C&D Inert Mixed	1,514.60		
	Soil & Stones	115.35		
19 12 12	C&I Dry Mixed	1.90	673.20	Greenstar Fassaroe
			3,528.66	Greenstar Millennium
			45.73	Ballynagran Landfill
	MSW		13,297.04	Ballynagran Landfill
20 01 01	Cardboard & Paper	1.56	13.23	Greenstar Fassaroe
	Newsprint	8.20		
20 01 02	Glass	0.19		
20 01 38	Wood	457.98	291.40	Greenstar Fassaroe
20 01 39	Plastic	8.94		
20 01 40	Metal	79.13	286.95	Molloy Metals
20 03 01	MSW	11,968.98		
20 03 07	C&I Dry Mixed	6,823.25		
	<b>Total Received</b>	<b>32,293.02</b>		
	<b>Total Consigned</b>		<b>32,834.38</b>	
	<b>Total Recovered</b>		<b>19,491.61</b>	
	<b>Total Disposed</b>		<b>13,342.77</b>	
	<b>Recovery Rate</b>		<b>59%</b>	

**Table 5.2 Waste Received & Consigned 2007**

EWC	Description	Waste In	Waste Out Recycled	Waste Out Disposed	Destination
20 03 01	Mixed Residual Waste	11349			
15 01 01	Cardboard Packaging & Paper Packaging	951	320		Bailey Waste Paper Ltd.
			353		Greenstar Ltd. Bray
20 01 01	Paper & Cardboard from Municipal sources	38			
15 01 05	Tetrapaks	4			
15 01 02	Plastic Bottles, Jars	192	20		Clearpoint Ltd.
20 01 39	Plastic from Municipal sources	16			
15 01 07	Glass packaging	3601	1104		Berryman Glass
			358		Glassco Ltd.
			2979		Stafford Shipping
20 01 02	Glass from municipal sources	378			
15 01 03	Wood packaging	9			
20 01 38	Wood waste from municipal sources	694			
15 01 04	Ferrous metal packaging	79	101		Molloy Metal Recycling
20 01 40	Metals from municipal, household & commercial waste	98			
15 01 06	Mixed Packaging	8401	703		Clearpoint Ltd.
			2531		Greenstar Ltd., Bray
			78		Greenstar Ltd., Co. Cork
			201		Greenstar Ltd./Glyntown Co. Cork
			5098		Waterford County Council
17 01 07	C&D Inert Mixed	796	3851		C.R.S. Ltd.
17 05 04	C&D Inert Mixed	1105	54		C.R.S. Ltd.
17 05 04	C&D Inert Mixed (Soil & Stones)	1973			
19 12 12	C&I Dry Mixed Waste	570			
19 12 12	MSW	64			
20 03 01	C&I Dry Mixed Waste	11412			
	MSW			185	Greenstar Ltd. Knockharley
				93	Greenstar Ltd. Millennium
				12266	Greenstar Ltd. Ballynagran
				301	BRP Baler
	C&I Dry Mixed Waste			63	AES Ireland
				20	BRP Baler
				136	Greenstar Ltd., Bray
				7179	Greenstar Ltd., Millennium
				2313	Greenstar Ltd. Ballynagran
19 12 07	Wood		90		Weyerhaeuser
			10		O.D. Recycling
19 12 02	Metal		188		Molloy Metal Recycling
	<b>Total Received</b>	<b>41,730</b>			
	<b>Total Recycled</b>		<b>25,447</b>		
	<b>Total Disposed</b>			<b>15,149</b>	
	<b>Recycling Rate</b>		<b>63%</b>		

**Table 5.3 – Waste Received and Consigned since 2005**

	<b>2007</b>	<b>2006</b>	<b>2005</b>
<b>Total Received</b>	41,730	38,308.48	30,006
<b>Total Consigned</b>	40,596	21,174.93	29,144
<b>Recovery Rate</b>	63%	55.27%	69%

**Table 5.4 Off-Site Disposal / Recovery Agents**

<b>Final Recovery or Disposal Destination</b>	<b>Waste Licence or Permit</b>	<b>Waste Type Accepted</b>
Ballynagran Landfill, Coolbeg and Kilcandra, Co. Wicklow	W0165-01	MSW & C&I
Berryman Glass, South Kirby, Yorkshire, England	1105	Glass
C.R.S., Montague, Gorey, Co. Wexford	WP/05/24	C&D Inert Mixed
Glassco Recycling, Orberstown Business Park, Naas, Co. Kildare	WP 160/2004	Glass
Glyntown Enterprises Ltd., Sarsfieldcourt, Glanmire, Co. Cork	CK (S) 329/06	Paper, Cardboard, Plastic & Metals
Greenstar Recycling, Fassaroe, Bray, Co. Wicklow	W0053-03	Mixed Packaging & C&I
Greenstar Recycling, Millennium Business Park, Ballycoolin, Dublin 11	W0183-01	Wood, Cardboard Packaging & C&I
Molloy Metals Recycling, Ballycarney, Enniscorthy, Co. Wexford	WP/000/15	Metal
Stafford Shipping, Wexford	WMP 44/2005	Glass Packaging
Waterford County Council, Shandon, Dungarvan, Co. Waterford	W0189-01	Mixed Packaging

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

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### **6.1 Incidents**

There were no incidents in 2008.

### **6.2 Register of Complaints**

SERC maintains a register of complaints received in accordance with Condition 3.13 of the waste licence. Eleven complaints in relation to odour were received during the reporting period. The full list of complaints is in Appendix 3. Investigations of the complaints established that a number related to odour associated with agricultural activity on the adjacent farmlands and were not associated with the facility.

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## 7. ENVIRONMENTAL DEVELOPMENT

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### 7.1 Environmental Management Programme Report

In compliance with Conditions 2.1 and 2.2 of the Licence, SERC has established an Environmental Management System (EMS) for the facility. With the exception of the Schedule of Objectives and Targets, which are amended annually as part of the AER, the environmental management programme was not amended in 2008. The schedule of Objectives and Targets, including their status for 2008 (Table 7.1), as well as the proposed Objectives and Targets for 2009 (Table 7.2) are presented below.

In late 2008 a programme was initiated to update the Environmental Management System. This will assist in achieving improved compliance with relevant national and European legislation, regulatory licences and permits, industry best practice and client requirements. It will also improve the control of contractors, materials and waste management, energy management and emission control. A revised system will be in place in Q2 2009.

#### 7.1.1 *Schedule of Objectives 2008*

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

#### 7.1.2 *Schedule of Objectives 2009*

A schedule of targets and objectives for 2009 has been set by the facility management. These objectives are outlined in Table 7.2.

#### 7.1.3 *Site Management Structure*

Details of the site management structure are included on Table 7.3.

#### 7.1.4 *Staff Training*

Staff training carried out during the year included induction training and manual handling training. Fire Training was carried out in Q2 2008 and emergency spill kit training was carried out in Q3 2008. The training records are available to view on site.



**Table 7.1 Schedule of Objective and Targets 2008**

<b>No</b>	<b>2008 Objective</b>	<b>Responsibility</b>	<b>Update</b>
1	To maintain daily and weekly site inspections for the facility.	Facility Manager	Ongoing
2	To maintain the use of the sprinkler system and the usage record sheet that was introduced late in 2005 as to record the times that the sprinkling system was used on site. To maintain the dust levels in line with the licence limits.	Facility Manager	Ongoing
3	To reduce energy consumption on site in relation to all waste & recyclable tonnage handled.	Facility Manager	Ongoing
4	To have the odour suppression system operational before end of January 2008.	Facility Manager	Complete
5	Continually review and assess all nuisance control procedures to ensure minimal impact on surrounding area	Facility Manager	Ongoing
6	Continue with segregation and recycling efforts	Facility Manager	Ongoing
7.	Ensure monitoring results comply with permits limits & investigate any exceedence of emission limit values (ELVs) systems as to reduce the environmental impact the facility has on the surrounding environment	Facility Manager/Group Compliance Manager	Ongoing

**Table 7.2 Schedule of Objective and Targets 2009**

No	2009 Objective	Responsibility	Target
1	Implementation of Diversion Strategy to reduce the volume of waste accepted to at or below licence limits	Facility Manager	2009
2	To maintain daily and weekly site inspections for the facility.	Facility Manager	Ongoing
3	To maintain the use of the sprinkler system and maintain the dust levels in line with the licence limits.	Facility Manager	Ongoing
4	To review the EMS and assess all nuisance control procedures to ensure minimal impact on surrounding area in April 2009	Facility Manager	Q2 2009
5	Continue with segregation and recycling efforts	Facility Manager	Ongoing
6	Ensure monitoring results comply with permits limits & investigate any exceedence of emission limit values (ELVs) systems as to reduce the environmental impact the facility has on the surrounding environment	Facility Manager/Group Compliance Manager	Ongoing
7	Set warning and action levels for the surface water discharge point	Facility Manager	Q2 2009
8	Decommission external storage bays and commence storage of all wastes internally	Facility Manager	Q1 2009

**Table 7.3 Site Management Structure**

<b>Name</b>	<b>Position</b>	<b>Replacement</b>	<b>Experience</b>
John Mernagh	General Manager, overall responsibility for the running of the business, including environmental compliance	Andrew Rinkulis	FÁS course completed 2003. 21 years waste management experience
Andrew Rinkulis	Operations Supervisor, management of operations of transfer station	Martin Kavanagh or John Mernagh	FÁS course completed 2008. 8 years waste management experience
Martin Kavanagh	Site Foreman/Loader Driver, general supervision of staff and recycling operations	Andrew Rinkulis or John Mernagh	9 years waste management experience

## **7.2 Communications Programme**

All correspondence received and sent to the Agency (except commercially sensitive information) is available to the public to view at the facility.

Records available for public inspection on site include:-

- Environmental 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.

### **7.3 New Procedures Developed in 2008**

A new procedure for the handling of gypsum waste was developed in 2008, a copy of which is included in Appendix 4.

### **7.4 Report Financial Provision**

Greenstar Ltd. which owns SERC has accrued over €3,000,000 in funds to provide for any potential environmental liabilities including the unexpected closure of the facility. Greenstar Ltd. has adequate insurance cover for environmental liabilities to €6,500,000 for any one occurrence, which will apply to “sudden identifiable and unintended incidents” that might occur in the decommissioning period.

### **7.5 Nuisance Control**

SERC carry out routine site inspections including daily site inspections, weekly site inspections and odour assessment patrols and litter collections. In addition, the roadway adjacent to the site is inspected daily for litter. All of these inspections and assessments are documented and kept on file at the site.

SERC has contracted a vermin control company ISS Hygiene Services Ltd. to carry out nuisance control at the facility. The vermin control records are maintained by the contractor and the records are kept on file on site.

As described in Section 4.1., an odour control system comprising two rotary atomisers was installed and commissioned at the facility in 2008. This will be activated in the event that any loads with odour nuisance potential are received at the facility.

### **7.6 European Pollutant Release and Transfer Register**

Under the European Pollutant Release and Transfer Register Regulation (EC) No. 166/2006 SERC is 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 5.

### **7.7 Foul Water Volume Transported Off-Site**

The total amount of foul water removed from the facility during the reporting period was 84 m<sup>3</sup> which originated from the cleaning of all surface water and foul water drains, lines, silt traps, interceptors and fuel bunds which was carried out in January 2008 and July 2008 in accordance with Condition 4.12.5 of the Licence.

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## 8. OTHER REPORTS

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The SERC facility is expected to close following the opening of a new Greenstar Materials Recovery Facility in Enniscorthy, Co Wexford. The Agency has recently granted a Waste Licence for this proposed facility (Reg No W0241-01) and Wexford County Council has also granted planning permission. Operational conditions of the planning permission have been appealed to An Bord Pleanála and a decision is expected in Q2 2009.

In accordance with Condition 8.1 of the Licence SERC submitted a Closure and Decommissioning Plan to the Agency on the 2<sup>nd</sup> October 2008 and the Agency responded on the 25<sup>th</sup> November 2008 with a request for further information, including the preparation of a Restoration & Aftercare Management Plan. This Plan was submitted to the Agency in January 2009.

# **APPENDIX 1**

## Environmental Monitoring Summary Tables

## **SURFACE WATER MONITORING RESULTS**

SW-1	Jan-08	May-08	Aug-08	Nov-08
pH	7.6	7.2	7.28	7
Temperature	8.3	11.4	16.3	8.5
Conductivity	0.771	0.402	0.855	0.894
Ammoniacal Nitrogen	1.8	<0.3	1	0.39
Chloride	37	27	17	25.5
Total Suspended Solids	21	2	33	32
Dissolved Oxygen	*	3	8	3.54
BOD	17	<1	<2	7.5
COD	43	<20	19	24
Oils, Fats & Greases	21	<4	<1	2.2
Total Coliforms			6200	
Faecal Coliforms			700	

\* - Reading could not be taken due to equipment malfunction

SW-2	Jan-08	May-08	Aug-08	Nov-08
pH	7.4	**	6.94	6.6
Temperature	8.2	**	14	9.1
Conductivity	0.521	**	0.478	0.465
Ammoniacal Nitrogen	0.91	**	0.7	<0.03
Chloride	31	**	24	31
Total Suspended Solids	48	**	138	438
Dissolved Oxygen	*	**	8.7	4.08
BOD	7	**	<2	27
COD	34	**	25	114
Oils, Fats & Greases	17	**	<1	<1
Total Coliforms			6600	
Faecal Coliforms			1700	

\* - Reading could not be taken due to equipment malfunction

\*\* - Location was dry



## **GROUNDWATER MONITORING RESULTS**

Parameter	Units	BH-2	BH-2
		Q2 2008	Q4 2008
pH	pH Units	6.2	5.8
Temperature	°C	10.7	11.2
Conductivity	mS/cm	0.232	0.297
Total Ammonia	mg/l	<0.36	<0.03
TPH			
Total Coliforms	cfu/100ml		<10
Faecal Coliforms	cfu/100ml		<10

Parameter	Units	BH-4	BH-4
		Q2 2008	Q4 2008
pH	pH Units	7.2	6.6
Temperature	°C	10.2	10.6
Conductivity	mS/cm	1.07	1.266
Total Ammonia	mg/l	<0.36	<0.03
TPH			
Total Coliforms	cfu/100ml		<10
Faecal Coliforms	cfu/100ml		<10

## **DUST DEPOSITION RESULTS**

	<b>May</b>	<b>June</b>	<b>July</b>
D1	378	195	26
D3	266	258	109
D4	233	82	52
D5	279	127	65
D6	*	*	*

\* Contaminated and therefore unsuitable for analysis

## **NOISE RESULTS**

12/06/2008

Station	Time	LAeq 30 min dB	LA10 30 min dB	LA90 30 min dB	Noise Audible
N1	0836-0906	47	48	41	Noise emissions from site clearly audible. Some screening provided by onsite buildings and bins. Local emissions from polythene billowing in breeze. Rustling vegetation. Crows and birdsong. Traffic on local and distant roads slightly audible continuously. Offsite, reversing alarm audible on plant to N. Passing high altitude aircraft.
N2	1019-1049	54	58	45	No site emissions audible due to dominance of breeze through surrounding trees. Birdsong and overhead aircraft audible.
N7	1127-1157	61	59	39	Sporadic site emissions audible at low level such as moving skips, reversing alarms and trucks through entrance. Not significant. No continuous emissions audible. Intermittent road traffic dominant. Birdsong. Passing high altitude aircraft. Birdsong and crows. Lightly rustling vegetation. Occasional offsite construction noise emissions to N
N8	1202-1232	48	51	41	No site emissions audible apart from trucks on access road and reversing alarms. Not significant. Noise at construction site to NW significant (excavator and hammering). Birdsong. Aircraft. Intermittent road traffic dominant. Rustling vegetation.
N13	0909-0939	49	52	44	Noise emissions from site audible at low level. Crows and birdsong. Rustling vegetation. Traffic on distant road to NW continuously present in background. Occasional emissions from construction site to N (reversing alarm, hammering, grinding). Passing high altitude aircraft.
N14	1052-1122	53	57	46	Site emissions slightly audible, chiefly sporadic emissions such as cans being tipped and items dropped. Breeze through surrounding trees dominant. Extraneous emissions audible from birdsong, aircraft and distant reversing alarms offsite.
N15	0944-1014	49	50	40	Site emissions audible at low level. Not significant. Rustling vegetation. Birdsong and crows. Traffic audible on roads to NW and SE. Passing high altitude aircraft.

**28/10/2008**

Station	Time	LAeq 30 min dB	LA10 30 min dB	LA90 30 min dB	Noise Audible
N1	1332- 1402	50	52	45	Plant and trucks around yard clearly audible. Rustling vegetation. Crows. No other noise audible.
N2	1106- 1136	55	58	59	Rustling trees overhead dominant. Intermittent noise audible from plant onsite, particularly FEL moving around yard. Birdsong. Traffic on public road to E audible. High altitude aircraft.
N7	1526- 1556	64	65	44	No site emissions audible apart from low level banging skip doors and reversing alarm. Intermittent local road traffic significant, increasing gradually in frequency. Birdsong. Breeze decreasing.
N8	1451- 1521	52	55	46	Sporadic trucks on access road and weighbridge audible at low level, not significant. Other sources such as FEL, skips, etc. also audible occasionally. Intermittent traffic on public road significant. Sporadic car movements at adjacent clinic. Birdsong. High altitude aircraft.
N13	1215- 1242	53	55	47	Plant and truck movements around yard audible at low level. Rustling vegetation. Distant traffic to W continuously audible in background. Birdsong. Measurement terminated at 27 min due to onset of shower.
N14	1413- 1443	53	55	47	Plant emissions onsite audible intermittently. Sporadic truck movements on access road and weighbridge audible. Rustling vegetation significant. Birdsong. Intermittent traffic on public road at entrance.
N15	1140- 1210	58	57	45	FEL and trucks onsite audible intermittently around site. Site relatively quiet apart from truck tipping bottles at 20 m during last 2 min, significantly rising LAeq. Rustling vegetation. Birdsong. Traffic audible on road to E. High altitude aircraft.

# **APPENDIX 2**

## Bund Integrity Test





# South East Recycling

Carrigbawn, Pembrokestown, Co. Wexford

## Bund Verification Report

**Report Date:**  
15<sup>th</sup> April 2008

**EURO environmental services**  
*Unit 35 Boyne Business Park, Drogheda, Co. Louth*

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Report No: 1910/M37

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## 1.0 Overview

EURO environmental services were commissioned by John Mernagh of South East Recycling to carry out inspection and testing of a bund structure at the facility located at Pembrokestown, Co. Wexford. Euro environmental services performed an integrity test on the Storage Bund on site. Testing was carried out by Kevin O'Shea on the 7<sup>th</sup> and 14<sup>th</sup> March 2008.

## 2.0 Methodology Employed During the Survey

Bund tests were based on section 9: inspection and testing: BS 8007:1987, British Standard Code of Practice for Design of concrete structures for retaining aqueous liquids. The test was carried out over a 7 day period. Leakage from a bund should not be any greater than 0.5 litres/ m<sup>2</sup> / 24 hour period. Depth measurements were taken at different locations of the bund which have been labeled as A, B, C in Section 3.

The bund dimensions were as follows:

- Width: 2565 mm
- Length: 7170 mm

**3.0 Bund Results**

Bund	Dates of Assessment	Water Level Day 1 (mm)	Water Level Day 7 (mm)	Pass / Fail
Storage Bund	07 – 14 March 2008	250	250	Pass

#### **4.0 Conclusions**

No leakage from the storage bund was detected during the bund integrity testing conducted over the 7 day period. The bund was determined to be in good condition.



Ameer Awadalla  
Environmental Technician



Aadil Khan  
Environmental Technical Manager

15<sup>th</sup> April 2008

# **APPENDIX 3**


## Complaints Register

<b>Date of Complaint</b>	<b>Complainant</b>	<b>Response</b>	<b>EPA Correspondant</b>	<b>Comments</b>
27/06/2008	Telephone-Michael Rossiter	30/06/2008	Deirdre Edwards	Odour
18/07/2008	Telephone - Michael Rossiter	25/07/2008	Deirdre Edwards	Odour complaint alluded to 17/07 and 18/07
08/08/2008	Telephone - Catherine Browne	13/08/2008	Deirdre Edwards	Odour 'sour, sweet'
15/08/2008	Telephone - Michael Rossiter	19/08/2008	Deirdre Edwards	Odour for 14th and 15th August 2008
01/09/2008	Telephone - 3 complaints - (Rossiter, Kavanagh, Stafford)	04/09/2008	Eimear O'Keefe	Odour
15/09/2008	Telephone-Catherine Browne	16/09/2008	Joan Fogarty	Odour and Dust-Also separate call from Cbrowne on 15/09
17/10/2008	Telephone-Ann Marie Kavanagh	20/10/2008	Deirdre French	Odour - Possible Slurry
10/11/2008	Telephone-Michael Rossiter, Shane Kavanagh	11/11/2008	Deirdre French	Odour - Possible Slurry 2 separate complaints

**TOTAL COMPLAINTS 2008 - 11 (all relate to odour). Slurry Influence to 3 complaints**

# **APPENDIX 4**

New Procedures

DOCUMENT TYPE	PROCEDURE	SOP 080	
TITLE	Gypsum Based Material		
Controlled Document			

### 1. SCOPE/OBJECTIVE

This procedure will apply to all Greenstar facilities.

The purpose of this procedure is to ensure the safe and efficient handling, rejection and/or quarantining of gypsum based material.

### 2. RESPONSIBILITY

The Facility Manager (FM) will implement this procedure.

The FM, Environment Manager (EM), Site Operatives (SO) and Customer Care (CC) personnel will follow this procedure.

### 3. DEFINITION

“Non -hazardous gypsum-based materials” typically include plaster board waste from construction and demolition sites which can often be present in general C&D waste skips. In terms of the European Waste Catalogue, separately collected gypsum based construction material is coded as 17 08 02 and source separation of this material is encouraged. Typically, however, gypsum wastes arising from works of demolition in particular may arise in general C&D waste loads. In this instance the appropriate code is 17 09 04 (mixed construction and demolition wastes other than those mentioned in 17 09 01, 17 09 02 and 17 09 03).

COUNCIL DECISION of 19 December 2002 establishing criteria and procedures for the acceptance of waste at landfills pursuant to Article 16 of Annex II to Directive 1999/31/EC states:

“2.2.3. Gypsum Waste;

Non hazardous gypsum-based materials should be disposed of only in landfills for non-hazardous waste in cells where no biodegradable waste is accepted”.

Mixing gypsum wastes with biodegradable wastes can lead to the evolution of hydrogen sulphide and consequently where gypsum based material is accepted at a non landfill site, this material must be segregated from the general (C&D) waste accepted.

### Site Safety Statement


#### 4. PROCEDURE

##### 4.1. Generalities

Gypsum based material may arrive on site mixed with general Construction and Demolition (C&D) waste. Where possible and practicable, all gypsum-based products must be segregated from other types of C&D waste and stored separately in a suitable, clearly labelled, covered container pending removal off-site to a licensed or permitted facility.

DOCUMENT NUMBER	SO P 018	ISSUE DATE	08/05/08	REVISION NUMBER	6	Page 1 of 2	ISSUED BY	S B	AUTHORISED BY	M D
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DOCUMENT TYPE	PROCEDURE	SOP 080	 <i>greenstar</i> <small>setting the standard</small>
TITLE	Gypsum Based Material		
Controlled Document			

Where large proportions of gypsum waste are found to be contaminating skips received from a particular customer on an on-going basis, the FM must contact the Customer Account Manager to explain that further loads of this nature will not be received at the facility, giving reasons why and insisting that the customer site in question avail of separate covered storage and collection of gypsum-based waste for removal to licensed facilities.

The FM will arrange for the transport and disposal off-site of segregated gypsum based material by an approved third party specialist contractor (Ref. SOP 016, and GS028).

This material will only be sent to a fully approved (licensed or permitted) facility.

DOCUMENT NUMBER	SOP 018	ISSUE DATE	08/05/08	REVISION NUMBER	6	Page 2 of 2	ISSUED BY	S B	AUTHORISED BY	M D
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# **APPENDIX 5**

## European Pollutant Release and Transfer Register

# AER Returns Worksheet

Version 1.1.03

<b>REFERENCE YEAR</b>	2008
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## 1. FACILITY IDENTIFICATION

Parent Company Name	South East Recycling Company Limited
Facility Name	South East Recycling Company Ltd
PRTR Identification Number	W0111
Licence Number	W0111-01

### Waste or IPPC Classes of Activity

No.	class name
3.11	Blending or mixture 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.
4.2	Recycling or reclamation of organic substances which are not used as solvents (including composting and other biological transformation processes).
4.3	Recycling or reclamation of metals and metal compounds.
4.4	Recycling or reclamation of other inorganic materials.
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.

Address 1	South East Recycling Centre
Address 2	Carrigbawn
Address 3	Pembrokestown
Address 4	County Wexford
Country	Ireland
Coordinates of Location	423200.000
River Basin District	IE-South Eastern
NACE Code	382
Main Economic Activity	Waste treatment and disposal
<b>AER Returns Contact Name</b>	Malcolm Dowling
<b>AER Returns Contact Email Address</b>	malcolm.dowling@greenstar.ie
<b>AER Returns Contact Position</b>	
<b>AER Returns Contact Telephone Number</b>	01-2947969
<b>AER Returns Contact Mobile Phone Number</b>	
<b>AER Returns Contact Fax Number</b>	
<b>Production Volume</b>	0.0
<b>Production Volume Units</b>	
<b>Number of Installations</b>	0
<b>Number of Operating Hours in Year</b>	0
<b>Number of Employees</b>	0
<b>User Feedback/Comments</b>	
<b>Web Address</b>	

## 2. PRTR CLASS ACTIVITIES

Activity Number	Activity Name
5c	Installations for the disposal of non-hazardous waste

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

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

4.1 RELEASES TO AIR

SECTION A : SECTOR SPECIFIC PRTR POLLUTANTS

RELEASES TO AIR								
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

RELEASES TO AIR								
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)

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

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

Additional Data Requested from Landfill operators

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

Landfill:	South East Recycling Company Ltd				
Please enter summary data on the quantities of methane flared and / or utilised	T (Total) kg/Year	M/C/E	Method Code	Designation or Description	Facility Total Capacity m3 per hour
	Total estimated methane generation (as per site model)	0.0			N/A
	Methane flared	0.0			0.0 (Total Flaring Capacity)
	Methane utilised in engine/s	0.0			0.0 (Total Utilising Capacity)
	Net methane emission (as reported in Section A above)	0.0			N/A

4.2 RELEASES TO WATERS

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

RELEASES TO WATERS								
POLLUTANT		Method Used			QUANTITY			
No. Annex II	Name	M/C/E	Method Code	Designation or Description	SW-1 Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
79	Chlorides (as Cl)	E	EN ISO 17025	Flow was estimated based on rainfall amount over the year and the area of the facility. The analysis was ISO accredited	174.8949	174.8949	0.0	0.0

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

SECTION B : REMAINING PRTR POLLUTANTS

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

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

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

RELEASES TO WATERS								
POLLUTANT		Method Used			QUANTITY			
Pollutant No.	Name	M/C/E	Method Code	Designation or Description	SW-1 Emission Point 1	T (Total) KG/Year	A (Accidental) KG/Year	F (Fugitive) KG/Year
238	Ammonia (as N)	E	EN ISO 17025	Flow was estimated based on rainfall amount over the year and the area of the facility. The analysis was ISO accredited	9.068626	9.068626	0.0	0.0
240	Suspended Solids	E	EN ISO 17025	Flow was estimated based on rainfall amount over the year and the area of the facility. The analysis was ISO accredited	120.915	120.915	0.0	0.0
303	BOD	E	EN ISO 17025	Flow was estimated based on rainfall amount over the year and the area of the facility. The analysis was ISO accredited	110.119	110.119	0.0	0.0
306	COD	E	EN ISO 17025	Flow was estimated based on rainfall amount over the year and the area of the facility. The analysis was ISO accredited	200.8053	200.8053	0.0	0.0
314	Fats, Oils and Greases	E	EN ISO 17025	Flow was estimated based on rainfall amount over the year and the area of the facility. The analysis was ISO accredited	136.0294	136.0294	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

SECTION A : PRTR POLLUTANTS

OFFSITE TRANSFER OF POLLUTANTS DESTINED FOR WASTE-WATER TREATMENT OR SEWER									
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									
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

SECTION A : PRTR POLLUTANTS

RELEASES TO LAND							
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
					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							
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
					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# : W0111 | Facility Name : South East Recycling Company Ltd | Filename : W0111\_2008.xls | Return Year : 2008 |

31/03/2009 12:03

Transfer Destination	European Waste Code	Hazardous	Quantity T/Year	Description of Waste	Waste Treatment Operation	Method Used		Location of Treatment	Name and Licence / Permit No. of Recoverer / Disposer / Broker	Address of Recoverer / Disposer / Broker	Name and Address of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)	Licence / Permit No. of Final Destination i.e. Final Recovery / Disposal Site (HAZARDOUS WASTE ONLY)
						M/C/E	Method Used					
Within the Country	15 01 01	No	328.37	Cardboard Packaging	R3	M	Weighed	Offsite in Ireland	Greenstar Fassaroe W0053-03	Fasaroe, Bray, Co. Wicklow		
Within the Country	15 01 04	No	20.91	Aluminium Cans	R4	M	Weighed	Offsite in Ireland	Molloy Metal Recycling WP/000/15	Ballycarney, Enniscorthy, Co. Wexford		
Within the Country	15 01 04	No	79.81	Aluminium	R4	M	Weighed	Offsite in Ireland	Greenstar Fassaroe W0053-03	Fasaroe, Bray, Co. Wicklow		
Within the Country	15 01 06	No	3714.5	Mixed Packaging	R3	M	Weighed	Offsite in Ireland	Greenstar Fassaroe W0053-03	Fasaroe, Bray, Co. Wicklow		
Within the Country	15 01 06	No	66.88	Mixed Packaging	R3	M	Weighed	Offsite in Ireland	Glyntown Enterprises CK (S) 329/06	Sarsfieldcourt Industrial Estate, Glanmire, Co. Cork		
Within the Country	15 01 06	No	2901.21	Mixed Packaging	R3	M	Weighed	Offsite in Ireland	Waterford County Council W0189-01	Shandon, Dungarvan, Co. Waterford		
To Other Countries	15 01 07	No	79.39	Glass Packaging	R5	M	Weighed	Abroad	Berryman Glass 1105 Glassco Recycling	South Kirby, Yorkshire, England		
Within the Country	15 01 07	No	3862.21	Glass Packaging	R5	M	Weighed	Offsite in Ireland	WP160/2004	Orberstown Business Park, Naas, Co. Kildare		
Within the Country	15 01 07	No	438.94	Glass Packaging	R5	M	Weighed	Offsite in Ireland	Stafford Shipping WMP 44/2005	Wexford		
Within the Country	17 01 07	No	3205.95	C&D Inert Mixed	R5	M	Weighed	Offsite in Ireland	C.R.S WP/05/24	Montague, gorey, Co.Wexford		
Within the Country	19 12 12	No	673.2	C&I Dry Mixed	R12	M	Weighed	Offsite in Ireland	Greenstar Fassaroe W0053-03	Fasaroe, Bray, Co. Wicklow		
Within the Country	19 12 12	No	3528.66	C&I Dry Mixed	R12	M	Weighed	Offsite in Ireland	Greenstar Recycling Millennium W0053-03	Millennium Business Park, Ballycoolin, Dublin 11		
Within the Country	19 12 12	No	45.73	C&I Dry Mixed	D5	M	Weighed	Offsite in Ireland	Ballynagran Landfill W0165-01.	Coolbeg and Kilcandra, Co. Wicklow		
Within the Country	19 12 12	No	13297.04	MSW	D5	M	Weighed	Offsite in Ireland	Ballynagran Landfill W0165-01.	Coolbeg and Kilcandra, Co. Wicklow		
Within the Country	20 01 01	No	13.23	Cardboard & Paper	R12	M	Weighed	Offsite in Ireland	Greenstar Fassaroe W0053-03	Fasaroe, Bray, Co. Wicklow		
Within the Country	20 01 38	No	291.4	Wood	R12	M	Weighed	Offsite in Ireland	Greenstar Fassaroe W0053-03	Fasaroe, Bray, Co. Wicklow		
Within the Country	20 01 40	No	286.95	Metal	R4	M	Weighed	Offsite in Ireland	Molloy Metal Recycling WP/000/15	Ballycarney, Enniscorthy, Co. Wexford		

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